

# ISAE

[www.applied-ethology.org](http://www.applied-ethology.org)

# newsletter

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## President's Piece

Dear ISAE members,

Well, all too quickly, this will be my last President's Piece as I look to hand over the reins to Birte Nielsen and move into the Senior Vice President position in place of Anna Valros, who returns to the "back benches" after 11 years on Council: 6 years of excellent service in the various presidential roles and a further 5 years as Secretary immediately before that! My role as President is slightly longer than normal given the early timing of the Florianopolis meeting in 2013 and the later timing of our annual congress this year (September 14-17 – still plenty of time to register at [www.jsaab.org/isae2015/](http://www.jsaab.org/isae2015/)), but it's been a thoroughly enjoyable experience and it is always a pleasure to interact with our members and promote the Society to non-members when I'm lucky enough to travel.

Indeed, it's been a busy and rewarding 6 months since last I wrote, with visits to France, Denmark and Brazil. The first two visits were for a progress meeting of the EU project FareWellDock ([farewelldock.eu/](http://farewelldock.eu/)) and then the International Conference on Pig Welfare ([en.fvm.dk/focus-on/animal-welfare/international-conference-on-pig-welfare/](http://en.fvm.dk/focus-on/animal-welfare/international-conference-on-pig-welfare/)) organized by the Danish Ministry of Food, Agriculture and Fisheries. Both meetings were in a way related in that the associated issues of tail-docking and tail-biting in pigs, which are the focus of FareWellDock, were a major theme of the ICPW. The ICPW culminated in the Ministers of Agriculture from Denmark, Germany, Sweden and The Netherlands signing a position paper urging the European Commission to amend the EU legislation on pigs: 1) to reduce the number of tail-docked pigs, 2) to reduce surgical castration, 3) to group house sows from weaning – i.e. remove the provision that crates can be used during a 4-week service period, and 4) to move towards loose farrowing systems. There were about 40 ISAE members present at the meeting, out of a 'sell-out' attendance of about 400 people from 28 countries. The delegates were a mix of researchers, governmental policy-makers, and representatives from producer organizations, NGOs and industry companies. To me, this conference reinforced my belief that the work that ISAE members do continues to be highly important and directly relevant to societal concerns. It also emphasized that stakeholders want our research communicated to them and want to engage in dialogue with us, and these are areas in which we could do better.

My most recent trip to Brazil was to present a talk at the 1<sup>st</sup> International Workshop on Precision Environmental Control, hosted by the Faculty of Agricultural Engineering (FEAGRI) at the State University of Campinas (UNICAMP). Again, this workshop reinforced my already-held belief that applied ethologists and engineers – especially agricultural and biomedical – should be working together more than they do. The organizers of ISAE 2014 in Vitoria-Gasteiz helped promote this by making precision livestock farming one of their themes, and there is an EU project which includes ISAE members ([www.eu-plf.eu/](http://www.eu-plf.eu/)), but we could be doing more together and I would encourage you to interact with engineers should the opportunity arise. For those of you unable to attend ISAE 2015 in Japan, the 7<sup>th</sup> European Conference on Precision Livestock Farming in Milan could be a useful alternative meeting to attend ([users.unimi.it/ecplf2015/](http://users.unimi.it/ecplf2015/)).

Also since December, Council has held its 'Winter' meeting online and we have discussed items such as Regional bank accounts, Honorary Fellows, closer OIE collaboration, the future of our official journal and the publication of a 50<sup>th</sup> anniversary book. Where we have made firm progress, this is reported elsewhere within this newsletter or has been forwarded to you by email. Council business is not confined to our 2 meetings a year, but is an ongoing process and do feel free to contact us at any time to raise items of concern or to make your opinion heard on Society matters.

To close, I would like to formally thank those who will be stepping down from Society positions this year. As mentioned above, Anna Valros steps off Council after 11 years of service, and we

also say farewell and thank you to Stephanie Torrey as Senior Editor and Marije Oostindjer as Assistant Secretary, both after 4 years of service. Since last newsletter, we have also welcomed new Regional Secretaries for the UK & Ireland in Simon Turner and Amy Quinn, meaning a thank-you to Laura Boyle and Cathy Dwyer. I know I've said it before, but the Society only functions with member involvement and I continue to urge any of you wanting to be involved in Council activities to put yourself forward for election into one of the various positions that come up each year. This year, we will be looking for a new **Assistant Secretary** and a new **Junior Editor**. Please feel free to email Marije ([marije.oostindjer@umb.no](mailto:marije.oostindjer@umb.no)) and Margit ([margitbak.jensen@anis.au.dk](mailto:margitbak.jensen@anis.au.dk)) for information about these positions if you are interested.

I wish you all a restful or productive northern hemisphere summer or southern hemisphere winter and look forward to seeing as many of you as possible in Japan in September.

Best wishes,

Jeremy Marchant-Forde

President of the ISAE

## *ISAE Council News*

### **Senior Vice President – Anna Valros**

#### 2015 49<sup>th</sup> Congress:

*Hokkaido, Japan*

The congress will be held at the Hokkaido University, located in the centre of Sapporo city in the northern part of Japan, from September 14 to 17, 2015 and consist of 3 days with excursions on 4th day. The chair of the local organizing committee of ISAE2015 is Professor Kondo and of the working committee is Professor Shigeru Morita.

The main theme of ISAE 2015 is as 'Ethology for sustainable society' and the sub-themes are

1. Animal welfare assessment for good farm practice and production,
2. Freedom to express normal behaviour in captive animals,
3. Behavioural approaches to wild animal management and
4. Human-animal interactions and animal cognition.

#### 2016 50<sup>th</sup> Congress:

*Edinburgh, UK*

The congress will be the 50th Anniversary Congress of ISAE and is held in Edinburgh, UK. The preliminary plan is that the congress will take place 12th – 16th July 2016. Excursions will be held at the end of the congress.

The theme of the 50th Congress will be the future of applied ethology in tackling the grand challenges (food security, climate change, increasing population). The local organising committee is chaired by Cathy Dwyer, and the scientific committee by Alistair Lawrence and Marie Haskell. In addition, there is a 50th Anniversary Committee, chaired by Mike Appleby.

### ***On-going request from the 2016 organisers:***

**The Archive:** As part of the 50th Anniversary Celebrations we would like to compile an archive of photos, artefacts, proceedings and memorabilia from the last 50 years. We already have some great finds (the Proceedings of the first meeting of the Society for Veterinary Ethology held on 4th June 1966, some very fetching ISAE ties and several conference gifts from meetings!) but would like to have a lot more. Please let us know what you have and are willing to share with everyone for the meeting: photos featuring ISAE events and personalities, conference gifts and proceedings, and anything else featuring ISAE and ISVE through the ages. Addresses and emails to send information/artefacts to will be available on the website shortly.

**Founder members:** We would like to invite all the founder members to come to the 50th Congress. Although we are in touch with several we would like the help of ISAE members to ensure we can contact as many as possible before the meeting.

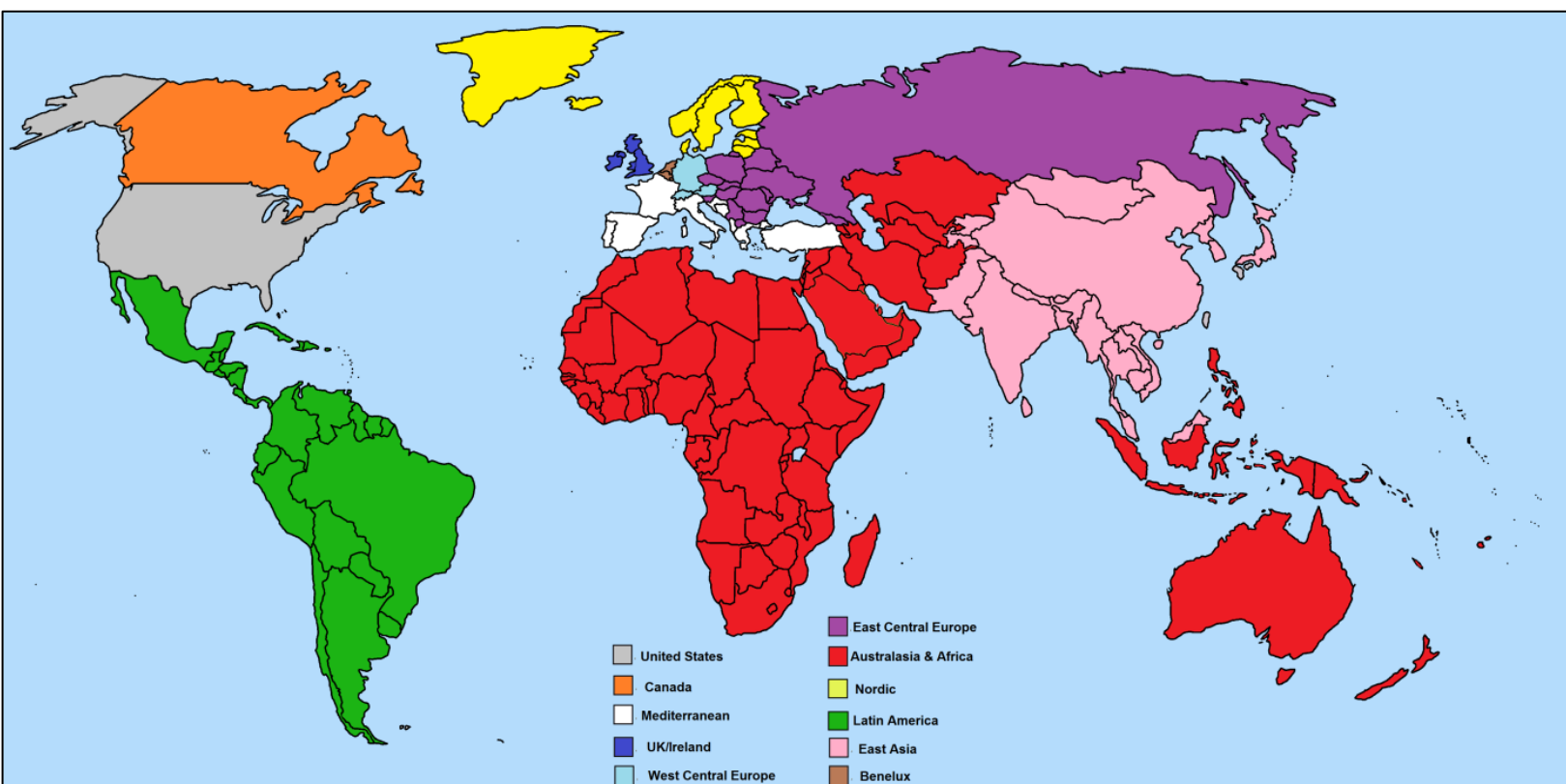
The other congresses are as follows:

- 2017 51<sup>st</sup> Congress, Aarhus, Denmark (dates and venue to be confirmed)
- 2018 52<sup>nd</sup> Congress, PEI, Canada (dates and venue to be confirmed)
- 2019 53<sup>rd</sup> Congress, Bergen, Norway (dates and venue to be confirmed)

Thank you to the local organising committees of each of these congresses for taking on the responsibility of organising our annual meeting.

### **Junior Vice President's report – Birte L Nielsen**

As Junior Vice President I am responsible for the well-being and overall organisation of the Regional Secretaries, and the associated Regions. In the past, there has been some confusion with regard to some countries as to their regional affiliation. Below is a map of the world with the 11 ISAE regions indicated by different colours. Feel free to send me any comments or questions you may have regarding the ISAE Regions. My email is in the list at the end of this Newsletter.



### *Upcoming Regional meetings*

- The next ISAE Benelux Regional meeting will be held on the 15th of October 2015 at the "Hooibeekhoeve" in Geel, Belgium. Check the Regions website for more information.
- The Nordic region has changed the frequency of their meetings from annual to biennial (every second year), and the next ISAE Nordic Regional winter meeting will be in January 2016 in Denmark.
- The next UK/Ireland Regional Meeting will be in the autumn 2015.
- The 13th North American Regional Meeting will be held in spring 2016; the location is still to be determined.

Please see the Regional pages on the ISAE website for more information, as I'm sure the Regional Secretaries will make an extra effort to keep these pages updated (hint hint).

### *New Regional Secretaries*

Some regions have two Regional Secretaries, if the region is large in terms of members or geographical spread. One such region, The UK/Ireland region which accounts for almost 20% of the ISAE membership, changed secretaries in February 2015, when Laura Boyle (Ireland) and Cathy Dwyer (UK) stepped down after no less than 7 years (!) as Regional secretaries. The ISAE are grateful for their valuable contribution to the Region and the running of the Society. Thank you both! Picking up the baton are Simon Turner from SRUC in Edinburgh and Amy Quinn from Teagasc in Ireland. We are happy to welcome you as Regional Secretaries for UK/Ireland Region.

I would also like to take this opportunity on behalf of the ISAE to thank all of our Regional Secretaries (new and experienced) for volunteering your time and energy to the Society.

Best wishes to all the ISAE regions and Regional Secretaries,

Birte L Nielsen  
*Junior Vice President*

### **Membership Secretary – Priya Motupalli**

Membership renewals are underway and as of May 28<sup>th</sup>, 292 members have renewed their membership. Renewals continue to come in steadily, but we still need a considerable amount to renew! Renewals via sage-pay have been working well, but a few members have had difficulty so please get in touch if you are having trouble renewing.

ISAE membership is growing with 595 members overall and 37 new members since the last newsletter in December.

Please join us in welcoming them to the society!

<b>Name</b>	<b>Country</b>	<b>Name</b>	<b>Country</b>
Rita Pereira Goncalves	United Kingdom	Elmira Kabiri	Iran
Ana Strappini	Chile	Gemma Charlton	United Kingdom
Kristina Horback	United States of America	Brendan Duggan	United Kingdom
Usama Mahmoud	United States of America	Peta Taylor	Australia
Kate Plush	Australia	Maria Vilain Rorvang	Denmark
Nichole Chapel	United States of America	Grisel Lilian Navarro Otarola	Australia
Iris Boumans	Netherlands	Rebecca Woodhouse	Australia
Shawna Weimer	United States of America	Lee Niel	Canada
Nelly Lakestani	Chile	Yu Zhang	Australia
Kees van Reenen	Netherlands	Frances Flower	United States of America
Lisa Radosta	United States of America	Ines Windschnurer	Austria
Caroline Maia	Brazil	Chiara Mariti	Italy
Sandra Alvarez Betancourt	United Kingdom	Patricia Sang	United Kingdom
Leonie Jacobs	Belgium	Guilherme Picinin Salgado Prezotti	United States of America
Karen Mancera Alarcon	Australia	Eva Mainau	Spain
Sophie de Graaf	Belgium	Antonia Patt	United States of America
Toke Munk Schou	Denmark	Jen Jamieson	New Zealand
Royan Bartley	United States of America	Changping Wang	China
		Gareth Arnott	United Kingdom

Members have mostly been applying from three regions since the last newsletter: USA, Australasia/Africa, and UK/Ireland, but there have been two new members from traditionally under-represented countries (China, Iran). The overall regional breakdown for 2015 is similar to 2014.

**Region breakdown of new members:**

Region	New members	Total members in the region as of May 2015
USA	9	118
Australasia/Africa	8	58
UK/Ireland	6	116
Benelux	4	46
Nordic	2	82
Mediterranean	2	27
Latin America	3	17
East Asia	1	22
West Central Europe	1	44
Canada	1	58
East Central Europe	0	7

**Communications Officer – Laura Dixon**

It's membership renewal season which is always a busy time for the MS and CO. Aside from renewal queries, the Employment Opportunities page gets updated most often and (aside from the home page) also gets the most online views – so it's a good spot to advertise a position! The Ethical Guidelines page gets the next highest amount of views, followed by the ISAE Meetings and Upcoming Events pages. We have decided to launch 2 new pages on the ISAE website – see article below. As always, a reminder to message me if you want an announcement sent to the membership or posted on the website. I'm also happy to accept various announcements, articles, conference reviews and so on for our future Newsletters.

# *ISAE Regional News*

## **Benelux – Liesbeth Bolhuis and Stephanie Buijs**

*New members.* We have welcomed seven new ISAE members in our region: Emilie-Julie Bos (ILVO, Belgium), Iris Boumans (Wageningen University, the Netherlands), Frank van Eerdenburg (Utrecht University, the Netherlands), Sophie de Graaf (ILVO, Belgium), Leonie Jacobs (ILVO, Belgium), Bas Kemp (Wageningen University, the Netherlands) and Kees van Reenen (Wageningen University and Research Centre, the Netherlands).

*ISAE Benelux 2015 meeting.* Preparations for the ISAE Benelux 2015 have started. We have planned the next ISAE Benelux conference on the 15th of October 2015 and this time it will be held – for the first time – in Belgium. The venue of our 2015 meeting is the “Hooibeeekhoeve” in Geel, Belgium. Please save the date and spread the news to people within and outside our region that may be interested to attend this meeting. More news will follow soon.

## **East Asia - Shigeru Ninomiya**

The ISAE2015 will be held in Japan. See <http://www.jsaab.org/isae2015/> for details.

## **East Central Europe - Radka Šárová and West Central Europe - Dr. Edna Hillmann**

The most recent Joint East Central and West Central Europe ISAE Regional Meeting was held 04-06 June in Tänikon, Switzerland.

## **Mediterranean Region- Emma Fàbrega-Romans**

During the first semester of 2015, little activity has been present in the Mediterranean region. The secretary and other members of the ISAE Mediterranean region have been in contact to try to hold a Video Conference. Members of the Mediterranean region have discussed the inconvenience of physical regional meetings, provided the broad area in which members are distributed.

## **UK/Ireland – Amy Quinn and Simon Turner**

The 50<sup>th</sup> ISAE congress in 2016 will be held in Edinburgh. See the Senior VP's report for more details. Planning for a regional meeting (to be held in Ireland) is underway – details to follow on the ISAE Meetings page.



## *Employment Opportunities*

Recent Employment Listings include:

**Postdoc: Lab of Animal Behaviour, Physiology and Welfare**

**Location:** Texas Tech University, Texas, USA

**Contact:** John McGlone, [john.mcglone@ttu.edu](mailto:john.mcglone@ttu.edu)

**PhD: Tail biting in pigs**

**Location:** Teagasc Research Centre, Ireland

**Contact:** Keelin O'Driscoll, [keelin.odriscoll@teagasc.ie](mailto:keelin.odriscoll@teagasc.ie)

**Assistant/Associate Professor in Swine Welfare**

**Location:** Western College of Vet Medicine, University of Saskatchewan, Canada

**Contact:** John Campbell, [john.campbell@usask.ca](mailto:john.campbell@usask.ca)

**MSc position: Effects of enrichment on the sow and piglet**

**Location:** Prairie Swine Centre, University of Saskatchewan, Canada

**Contact:** Jennifer Brown, [jennifer.brown@usask.ca](mailto:jennifer.brown@usask.ca)

**MSc position: Effects of spacing allowance on weaner pigs**

**Location:** Prairie Swine Centre, University of Saskatchewan, Canada

**Contact:** Jennifer Brown, [jennifer.brown@usask.ca](mailto:jennifer.brown@usask.ca)

See the [Employment Opportunities](#) page for updates!

## *ISAE Commemorative Book*

**Commemorative book to celebrate “50 years and more” of applied ethology**

To help celebrate the ISAE's 50<sup>th</sup> anniversary in 2016, a group of ISAE members and applied ethologists are collaborating on a book project. The book will be titled “Animals and Us: 50 years and more of Applied Ethology”, and will feature sections on the history of the ISAE with profiles of some founding members, research methods and approaches in applied ethology, global perspectives, as well as a focus on the future of applied ethology.

The book will be of interest to scientists working in the field, and will hopefully inspire and inform students new to applied ethology. The book editors are ISAE members Jennifer Brown and Yolande Seddon, two ethologists working at the Prairie Swine Centre in Saskatoon, Canada.

“Our goal is to produce a book that is very accessible to a general audience, combining science and anecdotes,” says Brown. “We feel it’s important to share stories about the ISAE and some of the changes that have taken place over the past 50 years, and to have contributions from some of the early participants who are still active in the society.” For new students, the goal is to provide them with a sense of the history of applied ethology, changes in our understanding of animal behavior, the formative influence of animal welfare research and new technologies, and to highlight future objectives for applied ethology research and the society.

Chapter contributors include a many well-known researchers, including Ian Duncan, Carol Petherick, Ruth Newberry, Vicky Sandilands, Jennifer Brown, Daniel Mills, Jean-Loup Rault, Rebecca Doyle, Alistair Lawrence, Bo Algers, Joy Mench, Janice Swanson, Tina Widowski, Paul Hemsworth, Francisco Galindo, Shusuke Sato, Yuzhi Li, Jun Bao, Mike Appleby, Don Broom, Per Jensen, Bas Rodenberg and Jeremy Marchant-Forde!

Plans for publication and fundraising are under development, and the book will be available in time for the 50<sup>th</sup> International Congress in Edinburgh, either as open access or hard copy.

## *ISAE Journal Working Group*

In case you missed it, here is the summary of results from the ISAE Journal Working Group:

### **Results of the ISAE working group and survey on journal issues**

A year ago, the ISAE Council put together a working group to look into issues related to the Society’s association with the Elsevier journal Applied Animal Behaviour Science (AABS). It was 14 years since we entered into the agreement with Elsevier, and after a suggestion was raised at the AGM in Brazil, 2013, the ISAE Council decided to review our existing agreement to find out, if it still was the best option for our Society.

A journal working group (WG) was formed in January 2014 to look into the pros and cons of three options: 1) to stay with AABS as our official journal, 2) to associate a different, existing journal with the ISAE, or 3) create our own journal.

The journal WG looked into these different options over the following 12 months, and this is a brief summary of their work: Creating our own journal (option 3) was relatively quickly abandoned as an option, due to the huge amount of work involved as well as taking into account the increasing number of journals which have emerged within the last decade. As part of option 2, we contacted and spoke with a number of existing journals, most promisingly with Frontiers in Veterinary Science (specialty section Animal Behavior and Welfare) and Animal (created in 2005 and owned by BSAS, EAAP, and INRA; not to be confused with Animals). Based on our findings, we sent out a survey to all ISAE members in November 2014, asking questions on a variety of subjects relating to publishing and journals.

The result of this Survey is now available at the ISAE website. It consists of a pdf-file with a [result summary](#) and an Excel file with [a list of categorised qualitative responses](#) to the question “Over and above factors such as Impact factor and speed of publication, what would you expect more from a journal associated with the ISAE than any other journal?”

Responders to the survey covered 37% (n=234) of members and all regions were represented by at least 25% of their members. Among the responders, there was a large and even spread in age and publication frequency, indicating that all member types (from students to silverbacks) were represented. Interestingly, 70% of responders were women – a percentage which reflects perfectly the proportion of female ISAE members!

### **Overall summary of Journal survey:**

Of the responders,

- 85% had submitted manuscripts to AABS, which was the highest for any journal
- 80% were required to review papers for journals as part of their current job, but only 50% of those review papers for AABS
  - *Some of the difference between these two points may be due to many young scientists (PhD students) having submitted manuscripts to AABS, but not yet being used as reviewers. However, it also indicates that there are some ISAE members, which do not review papers for AABS, and who could enter the AABS reviewer pool.*
- People accept to review papers mainly based on their interest in the paper's subject and on their available time
- The vast majority (92%) knew that AABS was the official ISAE journal, and 32% said the affiliation with ISAE influenced their choice of AABS
- A majority (55%) had published mostly in AABS, followed by Journal of Dairy Science (11%) and with Animal Welfare and Journal of Animal Science both on 6%
- 65% did NOT know about the AABS Share Link\* option prior to doing the survey
  - *\* When publishing an article in AABS, the journal provides you with a Share Link for authors, providing 50 days free access to your newly-published article on ScienceDirect to anyone clicking on the link.*
- 19% of responders subscribed to AABS, and 80% had access to AABS via their employer, although these may overlap
  - *For comparison, 14% of ISAE members have a personal subscription to AABS.*
- 40% had published Open Access
- 44% were NOT aware that some journals were private and others society-run, and for those who knew, only 10% aimed to publish in society-run journals
- Most comments on AABS related to the relevance and quality of the papers, and the review process

After discussions at the electronic ISAE Council meeting in January, Council decided that there is currently no need to change the journal associated with our Society. We will, however, contact Elsevier to ensure that our Society gets the maximum benefit from the collaboration with Elsevier and the association with Applied Animal Behaviour Science (AABS). One of the issues being considered is creating a members-only space on the ISAE website where ISAE members can post their ShareLinks when publishing in AABS. This will essentially give all ISAE members temporary free access to all articles published in AABS by co-members. We will also engage in a dialogue with the Editor-in-Chief of AABS, Per Jensen, on how we together can ensure the quality of papers and the review process in AABS, as well as maintaining and increasing ISAE members' affiliation to AABS as the official ISAE journal.

The Journal working group consisted of council members Priya Motupalli (*Membership Secretary*, replacing Keelin O'Driscoll), Anna Valros (*Senior Vice President*), Margit Bak Jensen (*Junior Editor*), Stephanie Torrey (*Senior Editor*), and Birte Nielsen (*Junior Vice President*, chair). Help with the survey was kindly provided by Marije Oostindjer (*Assistant Secretary*).

30<sup>th</sup> of March 2015/ Birte L Nielsen

## *3<sup>rd</sup> International Meeting of Animal Welfare Researchers*

We would like to invite you to the Third international meeting of Animal Welfare Researchers organized by the OIE Collaborating Centre on Animal Welfare and Livestock Production (Chile-Uruguay-Mexico).

On this occasion the meeting will be held in Mexico City on the 27 and 28 of October at the Faculty of Veterinary Medicine of the National Autonomous University of Mexico (UNAM). We will have the assistance of members of other OIE Collaborating Centres on Animal Welfare, as well as recognized researchers on the area (Prof. David Fraser, Prof. Don Broom, Prof. Clive Phillips, Dr. Jeremy Marchant-Forde, Dr. Paolo Dalla Villa, Prof. Mateus Paranhos da Costa, Prof. Adroaldo Zanella, Dr. Carmen Gallo, Dra. Stella Huertas, Dr. Lida Anestidoum, Dr. Pablo Almazan, among others).

In the following link you will find further information and the guidelines for submissions:

[http://www.fmvz.unam.mx/fmvz/principal/archivos/Bienestar\\_animal.pdf](http://www.fmvz.unam.mx/fmvz/principal/archivos/Bienestar_animal.pdf)

It will be an honour to see you in Mexico.

Kind regards,

Dr. Francisco Galindo-Maldonado  
Coordinator

## *Call For Nominations – ISAE Expert*

ISAE is seeking nominations for the role of ISAE Expert for appointment to the Board of Trustees of AAALAC (Association for Assessment and Accreditation of Laboratory Animal Care International - <http://www.aaalac.org/> ) to replace Dr Sylvie Cloutier who has served in the role for the last 6 years. The role involves expected participation at the Annual Board Meeting of AAALAC, held in September in Washington DC, USA each year. Other activities within AAALAC, such as site visits, are at the Expert's discretion. Candidates should have been ISAE members for at least three years, should hold a PhD in applied ethology or a related field, have expertise in the relevant areas and excellent communication skills. To support their application, nominees should provide a brief CV. The selection of candidates will be approved by Council. **The deadline to send expressions of interest and CVs to [marije.oostindjer@nmbu.no](mailto:marije.oostindjer@nmbu.no) is June 30th.**

## *New Webpages Launched*

Two new webpages have been created in the ISAE website.

### **1. Request for Internship**

This page is available to all (members and non) to view. This will be a space where requests for internships, work experience, volunteering, etc. can be advertised. So if you are looking for experience in a certain location or species or field of research, this can be posted on the new 'Requests for Internships' page which is a sub page of the Employment Opportunities page.

### **2. Published Article Sharelinks**

This second page is available in the Members Only section of the website. Journals have begun to give authors a temporary free link to their online articles which they can share with colleagues. If you would like to share the link to your paper with your fellow ISAE members, this link can now be posted on the 'Published Article Sharelinks' page which is found under the 'Members Only' tab of the website.

If you would like something posted under either webpage, please email the Communication Officer ([isaebusiness@hotmail.com](mailto:isaebusiness@hotmail.com)) the relevant details.

## *Book – Behavioural Biology of Chickens*

By C Nicol, University of Bristol, UK



Chickens are by far the world's most widely farmed animal, kept for both meat and egg production. They are at the centre of many debates regarding housing and production systems, causing significant interest in what lies behind chicken behaviour. This accessible book covers sensory biology, behavioural development, preferences and aversions, social behaviour, learning and cognition, behavioural issues in different systems and solutions for behavioural problems. Authored by an authority on chicken ethology, it brings together the fields of animal behaviour, neuroscience, psychology and epidemiology to provide a comprehensive understanding of chicken behaviour and help improve the lives of farmed chickens around the world.

**ISAE Members get a 20% discount on the book!**

Contact the CO ([isaebusiness@hotmail.com](mailto:isaebusiness@hotmail.com)) for the discount code.

# ISAE Council

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