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e-news

**International Society
for Animal Hygiene**

N° 001 - 2017

SUMMARY

Dear members and friends of ISAH,

We are pleased to send you this new e-format of the ISAH Newsletter. This first issue is dedicated to inform you about the life of the Society.

After an editorial note by the President of the Society, relating the important times of the ISAH this year, you will find some more information about:

- our last congress in Mazatlán, Mexico;
- the contribution of the Professor Tielen Foundation to the ISAH;
- the latest news from the Executive Board;
- and the important activities of the President for the promotion of the ISAH spirit all over the world.

We also take the opportunity to inform you that membership fees collection is currently working properly, don't hesitate to have a look on page 11 to get more information.

You may find thereafter the portraits of great contributors of the ISAH (Prof J. Venglovsky and Prof Stanley Diesch). The forthcoming events and publication related to the Society are presented in the end of this issue; please visit the associated pages (16 and 19) if you are interested in.

If you are looking for a position, ISAH may help you! Our network offers two PhD positions: pages 17 and 18 are waiting for you!

Enjoy reading the new e-Newsletter of our Society!

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EDITORIAL

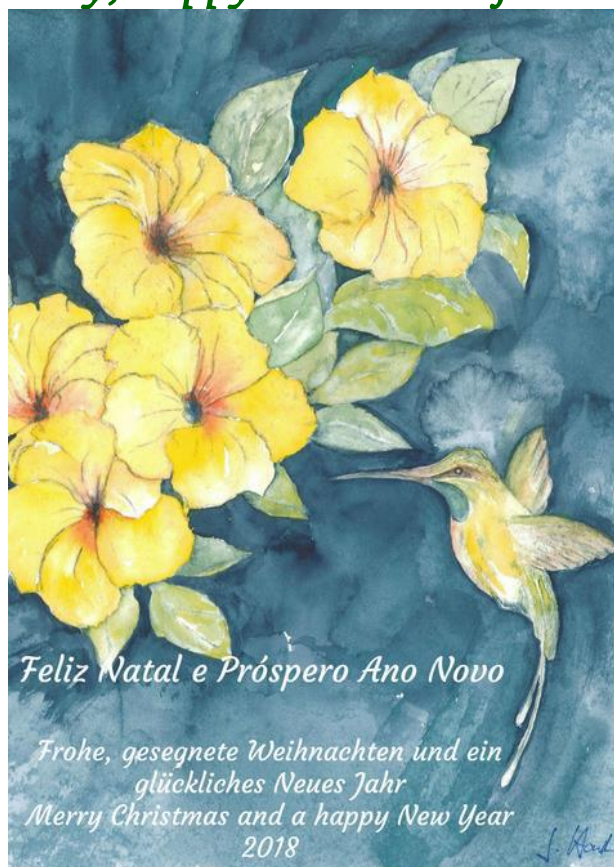
By the President

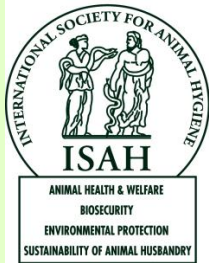
Dear members and friends of ISAH,

The year is drawing to a close and in the Christian world - and not just in the Christian world - people are preparing for Christmas and the New Year. It is the time of reflection and review of the past year. At the same time, many people are looking to the future with plans and hope.

The little humming bird on the water colour below should represent the beauty and fragility of our world when we are willing to work together for peace, quality of life and the protection of the world (creation).

We wish you all a blessed and merry Christmas and a healthy, happy and successful New Year.





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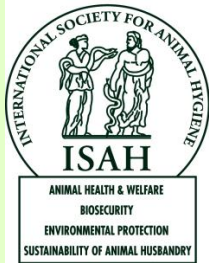
- Forthcoming events

2017 was an important and eventful year for ISAH again. 50 years (1967) after the initial work of Prof Ferenc Kovács on the founding and establishment of the International Society for Animal Hygiene (Rafai 2016), the idea of the teaching of health (and not only diseases) of animals and humans is as up to date as never before. The today postulated unity of human and animal health, also addressed as "One Health", has been one of ISAH's goals right from the beginning, and its roots go back to Hygieia, the Greek goddess of health, as the seal of our society identifies.

Animal health and welfare, disease prevention, animal welfare and housing conditions for livestock that enable an infection-free and injury-free life without physical, mental and social suffering, safe and high-quality production of food of animal origin, while ensuring an animal's quality of life as well as a strong research on the prevention and reduction of negative effects of livestock production on the environment are the fundamental postulates of the ISAH - a science based on sustainability for animal, man and environment.

ISAH is active on all continents and has members and supporters in about 55 countries worldwide.

The outstanding event in 2017 was the organization and successful running of the 18th ISAH Congress entitled "International Co-operation and Solidarity in Animal Hygiene towards One Health", March 19-23, 2017 in Mazatlán, Sinaloa, Mexico. Our special thanks go to Dr Juan Eulogio Guerra Liera, Rector of the Autonomous University Sinaloa of the United States of Mexico and Vice-President of ISAH, Dr Rubén Barajas Cruz, Autonomous University Sinaloa and chair of the Organizing Committee of the 18th ISAH-Congress, Dr Leonel Avendaño Reyes, Autonomous University of Baja California, Mexico, Chair of the Scientific Committee of the 18th ISAH-Congress, Prof Dr Jorge A. Saltijeral Oaxaca, Autonomous Metropolitan University (UAM), Mexico City,



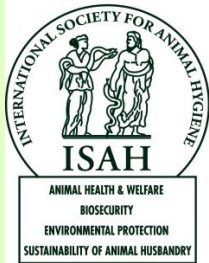
mediator and influential organizer in the background and all the other helping hands behind the desk and in the lecture rooms.

More than 3,200 people attended the inauguration of the congress at the Mazatlán Congress Centre, following the overarching presentations of the opening ceremony. Mexico's Minister of Health, Dr Ing José Narro Robles, spoke about the unity of humans and animals, especially with regard to zoonotic diseases. He promised a better education for the prevention of diseases and a more targeted health policy for all parts of the society.

Also **Dr Joaquin Braulio Delgadillo, Director-General of Animal Health of Mexico**, emphasized "A health for humans and animals". He clearly pointed to the increasing in Mexico typical lifestyle diseases such as obesity and diabetes. The positive nutritional situation of the population today is positive and that parasitic diseases in humans have been successfully suppressed in recent years, but more must be done in terms of sustainability.

Dr Deyanira Barrero of the FAO (United Nations Food and Agriculture Organization) called for more intensive and better-funded knowledge transfer between research institutions and health authorities around the world in order to act in a timely and effective manner for the benefit of humans and animals. He further emphasized that the hygiene of animals (animal hygiene) means more than just the protection of a livestock farm from dangerous pathogens or the cleaning and disinfection of stables. Measures to maintain health and well-being of animals have been indissolubly important - and in the face of current threats of increasing resistance of bacteria against antibiotics, preventive measures of animal and hospital hygiene are becoming increasingly important.

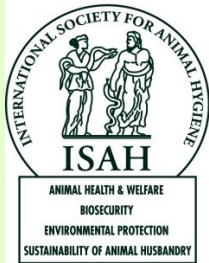
Prof Jörg Hartung from the University of Veterinary Medicine Hannover and President of ISAH emphasized the importance of international cooperation and solidarity in research and teaching, which are important cornerstones for the development of better health and living conditions for humans and animals in all



countries. He clearly opposed the current propagation of new walls between states and societies, driven by a certain political side. During the Iron Curtain and the Cold War in Europe, the ISAH joined people across all walls through scientific exchange between East and West, increasing knowledge and opening up societies to new ideas. He gave current examples of animal hygiene research on the behaviour of animals and the importance of stable dust as a carrier e.g. of antibiotic residues that can trigger the development of antibiotic resistance of bacteria. Animal protection and animal well-being is a worldwide issue today and needs interdisciplinary cooperation. Modern electronic techniques ("Livestock Precision Farming") offer new opportunities to actively implement animal protection and to be able to directly assess animal well-being. Animal health is an integral part of animal welfare. "An animal that feels good can fight much better against pathogens."

Prof Donald M. Broom of the University of Cambridge, United Kingdom highlighted in his noteworthy presentation that priorities in the production of food of animal origin have shifted further towards animal welfare and will continue to shift. Animal welfare as part of sustainability is becoming more important. In the past, it was only important for consumers to have the lowest possible price for milk, eggs and meat, today he increasingly asks - at least in many western countries - questions about the origin of the product, animal welfare and transparency of production. The reduction of food waste can also contribute to reduce the number of farm animals. However, not all conflicts between animal welfare requirements and resource conservation can be solved at the moment without increased costs.

Two key note lectures and several papers were devoted to new or re-emerging diseases, which are spread by vectors such as insects and promoted by increased and intensive contact between humans and animals. The intensification of livestock farming and the increasing global movement of people and trade in goods are also contributing to the rapid spread of these diseases. It therefore requires a holistic health policy, in which veterinary and human



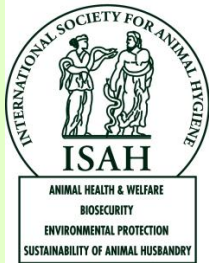
medicine cooperate comprehensively with environmental protection in order to realize the one-health thought and to better understand the links between human, animal and environmental health.

Dr Cornelia Silaghi from the University of Zurich presented new methods for the diagnosis of viral diseases. She emphasized the importance of continuing education of scientists and specialists, but also of farmers and every citizen. Her statement was corroborated by the example of the tiger mosquito, which can transmit chikungunya and dengue fever, two tropical viral diseases, as a vector. The mosquito and the diseases are on the rise in Europe too. In the fight not only laboratories and diagnostics could help, but also farmer and all citizens, by removing preferred breeding places of the tiger mosquito such as residual water in old tires and rain barrels.

Dr Anthony Wilson of the Pirbright Institute (UK) emphasized that veterinary and human medicine should learn from each other and animal hygiene should protect humans from food-borne diseases and zoonoses. Most newly emerging infectious diseases are zoonoses that can affect both the animal and humans. Effective diagnostics and continuous monitoring, for example with the aid of insect traps and taxonomic differentiation of the vectors (mosquito species, species of ticks, etc.), were important tools to prevent the spread of a disease (e.g. bluetongue disease and West Nile Virus) at an early stage.

Prof Ignacio García Bocanegra from the University of Cordoba, Spain advocated that wild animals should also be included in the monitoring systems, since they can also be affected by vector-borne diseases and constitute a pathogen reservoir.

For **Dr Frank van Eerdenburg from the University of Utrecht, Netherlands** are positive events a major cause for the well-being of not only humans but also animals (reward system). In contrast, stress often manifests itself not only in behaviour, but also in a reduced state of health or an increased mutation rate. He claims



that there are indications that also plants could show negative as well as positive reactions to certain influences and thus also a "plant well-being" could be measured, means well-being will gain more importance in the future also plant breeding.

At the congress, in addition to the lectures, various excursions were offered. It was possible to choose between a visit to a shrimp farm, a farm with free range fattening pigs and a dairy farm with cheese production. During the visit of the shrimp farm, for example, management strategies and health problems of aquaculture as well as the treatment of drinking water and environmental issues were discussed on site.

In conclusion: Animal hygiene is a constant, interdisciplinary task. The interaction of veterinary practitioners and scientific institutes seems more important than ever in terms of animal hygiene. Four intensive congress days in a hospitable and sunny country showed that the care for human and animal health is a permanent, interdisciplinary task across national and continental borders, requiring solidarity and cooperation in research, education and training.

In addition to the Minister of Health, the Governor of the State of Sinaloa, Quirino Ordaz Coppel, and other officials thanked for the numerous international attendance. About 300 scientists from 27 countries (Mexico, Germany, Poland, Estonia, Sweden, China, Switzerland, France, Brazil, USA, Cuba, Slovakia, Czech Republic, Spain, United Kingdom, Netherlands, Uruguay, Belgium, Australia, Tunisia, Pakistan, Nepal, Russia, Romania, Nigeria, Lithuania, India) presented their scientific results and practical recommendations on care and management of livestock in lectures and posters.

Muchas gracias, Mexico - thank you, Mexico!

The **19th ISAH Congress** will take place **8 – 12 September 2019** in **Wroclaw, Poland**.

***Professor Dr Dr h. c. J. Hartung
President of ISAH***

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News from the Society



Mazatlán congress



The successful and fruitful 18th ISAH Congress took place between the 19th and 23rd of March 2017 in Mazatlán, Mexico. It was organized by our Mexican colleagues/friends and more than 3200 participants from countries all over the world attended the opening ceremony of the congress. Interesting talks were given during the plenary and parallel sessions with more than 60 oral presentations. In total 71 posters were displayed during the congress. Three posters were awarded:

1st prize: Prof Pavel Novák, Czech Republic, for his poster: “Comfortable housing of dairy cows - basis for health, welfare and biosecurity”. He will be exempted from the conference fees of the XVIV ISAH Congress in Poland.

2nd prize: Mona Franziska Giersberg, Germany, for her poster: “Mobile houses for laying hens - both chance and challenge”.

3rd prize: Dr Przemysław Cwynar, Poland for his poster: “Behavioural and neuro hormonal analysis of dehorning procedure in calves”.

Congratulations to all of them!

Please find some videos of the congress below:

<https://www.youtube.com/watch?v=zu1SXCevpYY>

<https://www.youtube.com/watch?v=ghku9gES5zl>

<https://www.youtube.com/watch?v=PvPgKF0ufY8>



Professor Tielen Foundation (PTF)

www.PTF-Foundation.com



The “Prof Tielen Fund-Foundation” (PTF) supports since its creation in 2000, young scientists from developing countries to attend leading veterinary congresses all over the world and particularly to the ISAH congress. The PTF is endorsed by known international companies and supported by some smaller individual contributions. In that way 11 young scientists got a grant from the PTF to attend the 18th congress of the ISAH. This attendance gives these young scientists the opportunity to exchange scientific knowledge and to build up an international scientific network for future co-operation.

We thank the PTF and namely, Prof Martin Tielen, his son Pieter Tielen and Mike van der Laak for contributing to pass the ISAH spirit over the generations!



Executive Board (EB)



Since 2015, the EB of the ISAH consists of President: Prof Jörg Hartung, Germany; Standing Vice-president: Prof Andres Aland, Estonia; Organizing Vice President: Rector Dr Juan Eulogio Guerra Liera/Dr Ruben Barajas Cruz/Prof Jorge Saltijeral, Mexico; Treasurer: Dr László Könyves, Hungary; Secretary General: Dr Stefan Gunnarsson, Sweden; Members at Large: Prof Uwe Rösler, Germany, Prof Bao Endong, China, Dr Hermann Schobesberger, Austria and Prof Jan Venglovsky, Slovak Republic.

After 8 years in office Treasurer Dr László Könyves and Secretary General Dr Stefan Gunnarsson resigned and the General Assembly elected as new Treasurer Dr Hermann Schobesberger, Austria and Christelle Fablet, France as a new Secretary General for our society. Prof Bao and Prof Venglovsky were re-elected as Members at Large. Dr Könyves and Dr Gunnarsson were elected as Members at Large and were honoured with silver pins and diplomas for their dedicated work during the last eight years.

Thanks to former Treasurer Dr László Könyves and Secretary General Dr Stefan Gunnarsson for their huge commitment to the Society and welcome on-board to the new member of the EB.

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Membership fees



Scientists, veterinary practitioners and other persons with a special interest in the field of Animal Hygiene can become member of the International Society on Animal Hygiene by paying a biannual membership fee of 40 Euros for two (2) calendar years in between the ISAH-congresses.

The ISAH membership fee is effective from the 1st of January and runs for 24 consecutive months. Members who pay their fee in due time get a discount on the congress fee for the upcoming ISAH congress in that period.

Membership fee can currently be paid only by money transfer. Alternatives are currently explored and might become available in the future.

Please visit our webpage for more details:

<https://www.isah-soc.org/?Members/Membership-fee>



Further news

ISAH President Jörg Hartung delivered following invited talks and seminars in 2017:

- **“What do European Farmers think about Precision Livestock Farming (PLF), the farmer’s perspective”** (J. Hartung, T. Banhazi, E. Vranken, M. Guarino, D. Berckmans at the 68th Annual Meeting (“Patterns of Livestock Production in the Development of Bioeconomy”) of the European Federation of Animal Science (EAAP) from 28 August to 1 September in Tallinn, Estonia.

- **ERAMUS COURSE** in the Jean Monnet Program, 2-29 September 2017 in Mexico with the overarching title: “HYGIENE AND ANIMAL WELFARE: THE EUROPEAN VISION” in following places:

1. *Autonomous University of Sinaloa, Culiacan, 4th to 8th September.*
2. *Autonomous Metropolitan University (UAM), Mexico City, 11th to 21st September.*
3. *Autonomous University of the State of Mexico, Toluca, 22nd to 26th September.*
4. *Universidad Michoacana, Morelia, 27th to 28th September.*

Course organizer: Prof Dr Jorge A. Saltijeral Oaxaca, UAM.

- **“Sensible solutions for sentient beings in livestock production” XV Scientific Conference:** “Ethical and legal aspects of animal welfare protection”, Wrocław University of Environmental and Life Sciences, 3rd October 2017, Wrocław, Poland.

- 4th October the **ISAH EB** was invited to the official Inauguration Ceremony for the winter semester at the university in Wrocław.

- 5th October **ISAH EB** convened in Wrocław and started the preparations for the 19th ISAH Congress held 8–12 September in Wrocław. Participation: Jörg

Hartung (President), Andres Aland (Standing Vice President), Sebastian Opaliński (Organizing Vice President), Christelle Fablet (Secretary General), Hermann Schobesberger (Treasurer), Laszlo Könyves (Member at large), Stefan Gunnarsson (Member at large), Jan Venglovsky (Member at large). Apologies: Endong Bao and Uwe Rösler. The meeting was organised by Sebastian Opalinski and Prof Roman Kolacz.

- **“Practical solutions for animal welfare in livestock production”** at Nanjing Agricultural University, College of Veterinary Medicine, 26th October 2017, Nanjing, P.R. of China.

- During his stay in Nanjing and Tianjing Prof Hartung visited Mr. Norman Lee, owner of Ringpu pharmaceutical company, one of the main sponsors of the 13th ISAH Congress 2013 in Nanjing, China. He was welcomed in the entrance hall (please, see below picture on the left side). The second picture shows Norman Lee, Prof Dr Endong Bao and Prof Hartung (please, see below picture on the right side).



- **“Value creation through precision livestock farming systems”** at the Asian Forum on SMART Agriculture: Futuristic Technologies for Sustainable Farming (CPF Leadership Seminar), 6-9 November 2017, Bangkok and Nakhon Ratchasima, Thailand.

- **“Road accidents involving feral animals - experiences in Germany”** (Acidentes rodoviários envolvendo animais selvagem - experiências na Alemanha), Jörg Hartung and Adroaldo Zanella at ConBraVet (Brazilian veterinary congress) 4-8 December 2017, Belem, Para, Brazil.

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ISAH people portrait

Nomination

Jána VENGLOVSKÉHO

narodeného 13. augusta 1951

za

vysokoškolského profesora

The President of the Slovak Republic promoted Dr Jan Venglovsky, member at large of the executive board of ISAH, to full Professor in the field of Animal Husbandry and Environment by 18th May 2017.

The ISAH community congratulates him for this great achievement!

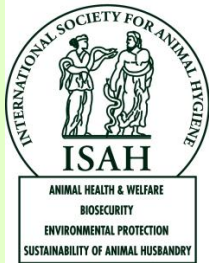
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In memory of Prof Stanley L. Diesch



May 16, 1925 - May 10, 2017

The scientific community lost a great contributor and well recognized researcher in May 2017 with the death of Prof Stan Diesch, just short of his 92nd birthday. He was Prof Emeritus at the University of Minnesota, College of Veterinary Medicine. Stan was president of ISAH 1992-1994 and organized the congress in 1994 in USA. Thereafter he became our active Honorary member.



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events

In the 60's, he joined the Medical School at the University of Iowa, Iowa City, at its Institute for Agricultural Medicine. This was the beginning of his long and illustrious career in veterinary public health. Stan worked diligently in research, teaching, and writing.

Stan continued these same ground breaking endeavours after returning to join the faculty of the University of Minnesota, College of Veterinary Medicine and the School of Public Health in 1966, where he then worked for more than 30 years. He was a Diplomate of the American College of Veterinary Preventative Medicine. He also co-built and operated the small animal Apache Animal Hospital in NE Minneapolis.

In his career Stan has served university, state, national, and international organizations and committees in many capacities and received many honours. He received the Public Service Award from both his state and national veterinary associations, and the International Veterinary Congress Prize from the American Veterinary Medical Association. He served as a consultant to the World Health Organization, the Pan American Health Organization in animal/human related diseases, and to many developing countries, as representative of the University of Minnesota. He served as Director of International Programs for the College of Veterinary Medicine for last 10 years.

In 2014 Stan was honoured by his school with the Distinguished Service Award from the Blooming Prairie High School Education Foundation. A profound award in 2015 was the Siehl Prize for the Excellence in Agriculture from the College of Food, Agriculture and Natural Resources Sciences, in the "Knowledge" category, in 2015.

We offer our sincere condolences to his family.



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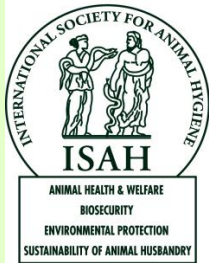
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Berliner und Münchener Tierärztliche Wochenschrift (BMWT)

A special Animal hygiene issue is going to be published in the internationally renowned scientific journal BMWT in the next coming weeks. The title issue is: *"International Co-operation and Solidarity in Animal Hygiene towards One Health"*. It will feature up to 14 of the most excellent scientific contributions to our congress and will be published in 2018. Please have a look at the [journal's website](http://vetline.de/berliner-und-muenchener-tieraerztliche-wochenschrift/158/3130) (in German): <http://vetline.de/berliner-und-muenchener-tieraerztliche-wochenschrift/158/3130>

4th ISAH book: "Air and Environmental Quality in Livestock and Agricultural Buildings"

Prof Andres Aland, Prof Hartung and Dr Thomas Banhazi are editing the 4th book under the ISAH auspice in the forthcoming weeks! There will be in total 23 chapters covering the wide and important topic of air quality in livestock buildings. It addresses the raising awareness of the importance of optimal health and welfare for livestock species and provide-up-to-date information for professionals involved in modern animal production. With many contributions from international specialists and researchers, the book will be published soon. Please booked one at: <https://www.crcpress.com/Air-and-Environmental-Quality-in-Livestock-and-Agricultural-Buildings/Banhazi-Aland-Hartung/p/book/9781138027039>



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Job offers

PhD positions

ETH zürich

In Switzerland – 2 PhD

The **Animal Genomics group** within the Institute of Agricultural Sciences (<http://www.ias.ethz.ch>) of the Department of Environmental Systems Science (<https://www.usys.ethz.ch>) at ETH Zurich invites applications for two PhD positions in livestock genomics. The subjects deal with 'Exploiting big genomic data to identify selection targets in livestock populations'. Highly-motivated PhD students with a strong interest in animal breeding and genetics, statistical genomics and/or computational biology to be part of a young and dynamic team that enjoys working with big genomic data are welcome to apply for the position. Applicants should hold an MSc degree in agricultural science, animal science, genetics, computational biology, bioinformatics, veterinary science or related disciplines. Affinity for animal genetics, statistics, bioinformatics and computational biology is required. The writing of scientific papers and participation in international conferences requires good knowledge of English. The duration of the position is three years and the position is able to commence as soon as possible.

For further information regarding the advertised position or on the doctorate study at ETH Zurich please contact Prof Hubert Pausch at hubert.pausch@usys.ethz.ch. Please submit your application online (<https://apply.refline.ch/845721/5382/pub/1/index.html>) with attention to: ETH Zurich, Mr. Olivier Meyrat, Human Resources, CH-8092 Zurich. The selection process will be continued until a suitable candidate has been found. Applications via e-mail or postal services will not be considered.

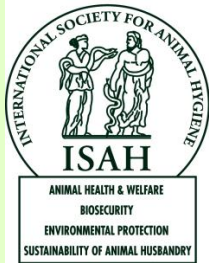


KU LEUVEN

In Belgium – 1 full time PhD

M3-BIORES scientific group from the University of Leuven, Belgium offers a fulltime PhD position for 3 years on the subject “Real-time pig aggression monitoring using image analysis”. This project is aimed at the development of a health and welfare monitor for animals based on automatic detection of visual behaviour parameters. Machine vision algorithms shall be used and further developed to calculate a number of characteristic parameters, such as animal position and movement. These parameters shall be related to specific behaviours, such as social behaviour and sickness. Automatic detection data shall be validated in collaboration with animal scientists, who will use physiological indicators of health and welfare. For more information, please see:

<https://icts.kuleuven.be/apps/jobsite/vacatures/54062971?lang=en>



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Forthcoming events



19th ISAH Congress, Wroclaw Poland – Sept. 2019 *Save the date!*

The next ISAH congress will be held in Wroclaw, Poland in September 2019. Please save already the date and visit the website for further information!

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**International Society
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The Newsletter is sent to all ISAH Members. You are all invited to submit information for the newsletter. Please send information, news, text, photos and logo to: christelle.fablet@anses.fr and joerg.hartung@tiho-hannover.de

Production staff: ISAH EB