

IOU FLUTTER

From the President

Dear Colleagues,

The IOU aims to contribute to the field of ornithology in the following directions: (1) disseminating ornithological knowledge; (2) interacting with other scientific organizations, foundations, and institutions; (3) stimulating and strengthening locally-based research that includes the participation of amateur ornithologists; (4) cultivating collegial, collaborative, and mutually supportive relationships among ornithologists internationally, without restrictions imposed by cultural or political differences; and (5) fostering knowledge transfer between basic research and applied sciences, such as conservation.

To help accomplish our mission, we are launching a Newsletter, in addition to holding an international congress every four years, facilitating collaboration on special topics through the formation of Working Groups, and managing a website to communicate with members. Some of you may wonder, given the number of newsletters many

of us already receive from both local societies and international societies, do we really need another newsletter? The answer is yes, especially given our membership and readership cover wider geographic range than any other ornithological societies. You will find it very useful when you need information or want to reach out to other ornithologists in distant parts of the world.

Through this Newsletter, we will introduce recent technological advances that provide exciting new tools for the research of birds at all levels of biology. Given the rate and scale of changes that take place in the natural world, we hope the Newsletter can assist forging strong international linkages and co-operations among our members, in order to meet new research challenges. The Newsletter can also be used as a bulletin board where our members can post important messages to a wide audience, including sharing recent publications or discoveries, making inquiries on specific topics, announcing professional positions seeking candidates or candidates seeking jobs. It can

also be used to locate and liaise with researchers in different parts of the world, to facilitate data analyses towards understanding larger scale patterns and trends.

Many officers of the IOU, including the Communications and Publications Chair, the Editor of the Newsletter, the Permanent Secretary, and the Director of Management, have all spent major time and efforts to make this Newsletter a reality. Please, join me to extend to them a big "thank you".

Lucia Liu Severinghaus

IOU President

Biodiversity Research Center,
Academia Sinica, Taipei, Taiwan

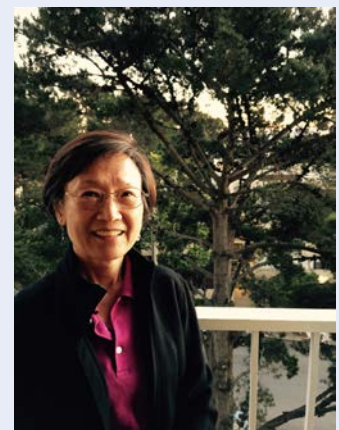


Table of Contents

From the President	1
IOU News	2
IOC News	3
Opinion Letters	4
Grants, Fellowships, Internships, and Positions	5
Editor's Choice	8
Birds in the News	9
Research Tools	9
Conservation	10
Conferences	10
Courses and Workshops	11
Contact	12

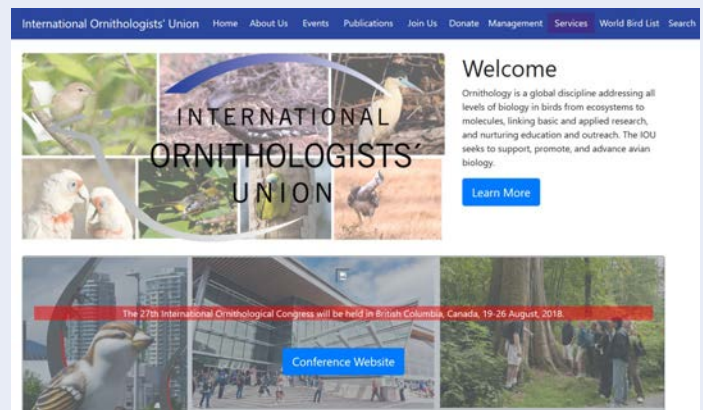
IOU News

It is our great pleasure to announce the new International Ornithologists' Union web page. This is a great tool aimed at disseminating ornithological knowledge; cultivating collegial, collaborative, and mutually supportive relationships among ornithologists internationally; and fostering knowledge transfer between fundamental research on the one hand and applied sciences and conservation on the other hand. The various sections of the new IOU web page provide information about ongoing projects led by the IOU offices, committees, and fellows;

upcoming events, such as the 27th International Ornithological Congress (Vancouver, August 19-26, 2018); links to digitized IOCongress Proceedings and other publications; sources of ornithological literature; dedicated spaces and interactive platforms for the IOU Working Groups (Asian Ornithology, Avian Nomenclature, Bird Marking, Psittaciformes, and Avian

Morphology); and the history and future goals of the IOU. More information will be added continuously!

Read more: <http://www.internationalornithology.org>



IOC News

*From the organizers of the
27th International
Ornithological Congress*

The IOCongress2018 Organizing Society and Co-Hosts (Bird Studies Canada and the Society of Canadian Ornithologists) together with partners from government, academia, arts, conservation and business have been planning for the 27th International Ornithological Congress (IOCongress2018) in Vancouver, British Columbia, since 2013. MCI Canada, our Professional Conference Organizer, is turning the vision into reality through their international team of professionals to make IOCongress2018 a truly world-class and once-in-a-lifetime event.

The unique essence is that the prestige of hosting IOCongress2018 has been fused with the universal concept of "Birds as a Gateway to Nature" to create the first Vancouver Bird Festival

(<http://www.vanbirdfest.com>). In this exciting pioneering model, not only will delegates mix with other preeminent ornithologists in sharing cutting-edge international science but join tens of thousands of the public in the Vancouver International Bird Festival - exploring and celebrating the connections of all Our Lives with those of the World's Birds. Festival events at the Vancouver Convention Centre and around the city will showcase of the best of avian science, art, film, stories, music, innovations,

conservation, food, travel, photography and optical equipment, to name a few. Programming features renowned speakers such as Margaret Atwood, Purnima Barman, Jennifer Ackerman and the "Birds for Peace" team. Daily signature events include Aboriginal and First Nations performance, Artists for Conservation's deafeningly dramatic "Silent Skies" mural, the launch of a new series of Birds of Canada stamps (with the IOCongress2018 logo!), a magnificent Opening Parade with over 100 youth in bird costumes on stilts, the Bird Expo, bird art and photographic exhibitions and competitions. Finally, of course you will see birds (!): in addition to pre- and post-IOCongress2018 birding tours around British Columbia and the Americas, delegates and the public have the opportunity to join one of dozens of mid-IOCongress2108 tours highlighting local bird richness on Friday 24 August.

There is still time to register for IOCongress2018, submit a late-breaking abstract, arrange accommodation at very competitive rates and book your bird tours at www.iocongress2018.com

*From the Scientific Program
Committee*

With the International Ornithological Congress now only around 130 days away, activities to ensure this turns into an



exciting lively conference, to rival previous IOC meetings, are now hotting up! The central focus to the meeting is of course the scientific program, the format of which will resemble previous IOC meetings

(www.iocongress2018.com/program). The meeting program includes 48 symposia www.iocongress2018.com/symposia-descriptions, oral presentations and posters. A new category of speed talks, accompanied by an eposter has been included for the first time, which increases the number of oral presentations which can be included in this busy program. Abstract submission closed on 29th March 2018 and we welcomed 1088 abstracts submitted for consideration for review. The scientific content reflects a good balance of the 14 invited subject areas, with Behaviour, Migration/orientation and Conservation particularly well represented. These abstracts have been submitted from presenters based in 60 different countries, reflecting the truly international perspectives offered by the IOC scientific program. Whilst symposium conveners are busy ranking their symposium talks, the Scientific Program Committee and the larger Peer Review Committee are currently very busy reviewing the submitted abstracts for allocation

to different presentation types. Decisions on the program allocations will be made available to delegates in early May 2018. After the current batch of abstracts has been reviewed, we will be reopening the website for abstract submission, for poster presentations only. These 'late-breaking' abstracts will give delegates an opportunity to present new data, if they are not already presenting. The Scientific Program Committee are still receiving proposals for Round Table Discussion groups and

Workshops
<http://www.iocongress2018.com/program-instructions> So if you have a good idea for inclusion in the program, please do forward a proposal! Meanwhile, I can any delegates requiring a letter to confirm attendance at the IOC 2018 for visa application purposes, need not wait until after presentation decisions. Please email me at IOCongress2018SPC@deakin.edu.au Looking forward already to a really exciting scientific meeting!

Kate Buchanan

Chair of the Scientific Program Committee

Opinion Letters

The new IOU web page is a great tool that allows colleagues from all over the world to share Letters, Opinions, and Perspective Articles on all aspects of ornithology, ranging from ecosystems to molecules, from fundamental to applied research, and from education to policy discussions. In this first newsletter issue, we would like to share with you three articles that are part of the initiatives currently carried out by the IOU

Working Group Psittaciformes (all freely available at http://www.internationalornithology.org/wg_psittaciformes.html):

Is the Grey Parrot doomed for extinction in Ghana? by Nathaniel Annorbah

The Relative Ethics of Keeping Birds, Particularly Parrots in Cages in Comparison to Other Forms of Animal Husbandry by



(Photo by Flavio Amiel on Unsplash)

Avinandan

On the conservation of cages by Dr. Carlos B. de Araújo

Grants, Fellowships, Internships, and Positions

IOCongress travel awards:

American Ornithological Society

(AOS) Travel Award: The American Ornithological Society (AOS) is pleased to provide funding for student members of the Society to defray travel expenses to attend the IOCongress2018 in Vancouver. The AOS is offering travel awards for graduate students and postdocs to help defray expenses to attend this international meeting.

Read more:

<http://www.iocongress2018.com/aos-travel-award>

Bird Studies Canada & Society of Canadian Ornithologists Student Award:

AVAILABLE FOR CANADIAN STUDENTS OR POST-DOC FELLOWS. Students travelling to and presenting at IOCongress2018 in Vancouver can now apply for travel awards to help offset the cost of travel.

Read more:

<http://www.iocongress2018.com/bsc-sco-student-award>

British Ornithologists' Union Early Career Researcher Member-Only Bursaries:

Travel grants for BOU early career researcher (ECR) members to attend the IOCongress2018 in Vancouver, BC, Canada. This is the first time that the BOU is offering these bursaries. and it will provide an opportunity for BOU ECR members outside Europe to take advantage of this

support, as support offered around their traditional events tends to be taken up solely by European researchers. Read more:

<http://www.iocongress2018.com/bou-bursaries>

East and Southeast Asia

Travel Fund: Limited travel funds to qualified ornithologists/students who have residency in East and South East Asia to attend the 27th International Ornithological IOCongress in Vancouver, BC, Canada on August 19-26, 2018. Up to \$2500 can be claimed for reimbursement that goes specifically toward air transportation and hotel lodging only.

Read more:

<http://www.internationalornithology.org/asiatravel.html>

German Ornithologists' Society (Deutsche Ornithologen-Gesellschaft - DO-G) Travel Award:

The DO-G is offering travel awards to assist its student members to attend the International Ornithological Congress (IOCongress2018) in Vancouver.

Contact DO-G Office: e-Mail, info@do-g.de, Tel.: +49 (0)176 78114479, Fax: +49 (0)4421 9689 55

Walter J. Bock Travel Fellowship: Limited travel funds to qualified established and productive ornithologists residing anywhere



(Photo by Tyler Lastovich on Unsplash)

in the world to attend the 27th International Ornithological IOCongress in Vancouver, BC, Canada. Ornithologists without permanent positions and residing in low-income countries are encouraged to apply.

Read more:

<http://www.internationalornithology.org/bocktravelfellowship.htm>

Waterbird Society (Wbs) Student Travel Awards:

The WBS is offering travel awards to assist its student members to attend the International Ornithological Congress (IOCongress2018) in Vancouver and the WBS meeting (Aug 19th & 20th).

Read more:

<http://www.iocongress2018.com/wbs-student-awards>

Worldwide:

Club 300 Foundation for Bird Protection:

Projects we have supported include conservation and research on many rare, threatened or little known

species. Applications for each year must be received by July 31st.

Read more:

<http://www.club300.se/Birdprot/Birdprotection.aspx>

British Ecological Society

Training & Travel Grants: These grants help PhD students and postgraduate research assistants to meet the costs of specialist field training courses and to network and publicise their research by presenting their work at workshops and conferences. The next round of funding will open in July 2018.

Read more:

<https://www.britishecologicalsociety.org/funding/training-travel-grants/>

Captain David Simpson Award:

The Royal Navy Birdwatching Society administers a fund left by the late Captain David Simpson, MN for a scholarship in his name. Researchers are encouraged to apply for grant funding in support of scientific seabird studies with clear aims and objectives.

Read more:

<http://www.rnbws.org.uk/about-us/>

Chicago Zoological Society, Conservation Leadership

Awards: The awards were created in 2005 by the Board of Trustees of the Chicago Zoological Society to honour the lifelong legacy of animal welfare and the worldwide conservation leadership of George Rabb.

Read more:

<https://www.czs.org/Chicago-Zoological-Society/Conservation-Leadership/Conservation-Awards>

Darwin Initiative Funding for Biodiversity:

The Darwin Initiative is a UK government grants scheme that helps to protect biodiversity and the natural environment through locally based projects worldwide.

Deadline: July

Read more:

<https://www.gov.uk/government/groups/the-darwin-initiative>

Frank M. Chapman Collection Study Grant, Frank M. Chapman Fellowship, Frank M. Chapman Grant, American Museum of Natural History:

several continuous grant schemes aimed to assist ornithological research.

Read more:

<https://www.amnh.org/our-research/vertebrate-zoology/ornithology/grants>

Hawk Mountain, Graduate

Student Program: competitive grants for graduate students working on raptors at major universities throughout the United States and elsewhere.

Rad more:

<http://www.hawkmountain.org/science/training/graduate-student-program/page.aspx?id=315>

Holohil Grant Program: supports endangered species research and educational work that makes significant use of Holohil transmitters for data collection.

Read more:

<http://www.holohil.com/grant-program/>

Idea Wild Equipment Assistance: grants for the acquisition of field equipment. IDEA WILD encourages the use and reuse of equipment and gives preference to proposals that clearly explain

how the equipment will be used when the project is finished.

Read more:

<http://www.ideawild.org/apply.html>

Professional Development Grants, World Wildlife Fund:

Professional Development Grants (PDGs) provide support for mid-career conservationists to pursue short-term, non-degree training to upgrade their knowledge and skills through short courses, workshops, symposiums, conferences, and professional exchanges.

Read more:

<https://www.worldwildlife.org/initiatives/professional-development-grants>

Small Grants for Nature Conservation, The Rufford

Foundation: funds nature conservation projects across the developing world.

Read more:

<https://www.rufford.org/rsg/>

Sophie Danforth Conservation

Biology Funds: supports conservation programs that protect threatened wildlife and habitats worldwide.

Read more:

<http://rwpzoo.org/conservation/dansforth-conservation-grants>

Stephen R. Tully Memorial

Grant: The Stephen R. Tully Memorial Grant is given to support research, and conservation of raptors especially to students and amateurs with limited access to alternative funding.

Read more:

<http://www.raptorresearchfoundation.org/grants-and-awards/stephen-r-tully->

memorial-grant/

The International Osprey Foundation, Research Grants:

awarded annually for osprey and other raptor-related research in the United States and worldwide. Read more:

<http://www.ospreys.com/styled-4/index.html>

Waterbird Society, different schemes: grants to support projects producing significant scientific advances in the biology, ecology, or conservation biology of wading birds (i.e. herons, storks, ibises, and their taxonomic allies).

Read more:

<https://waterbirds.org/awards/>

Young Explorers Grants, National Geographic:

currently offering Explorers a variety of funding opportunities in the fields of conservation, education, research, storytelling, and technology.

Read more:

<https://www.nationalgeographic.org/grants>

Africa:

African Bird Club Conservation and Expedition awards:

The ABC's Conservation Programme supports small to medium sized conservation and expedition projects in Africa. For Undergraduate Students, Masters Students, Doctoral Students, Postdoctoral, Early Professionals, and Established Professionals. Next deadlines: end of June, end of October.

Read more:

<https://www.africanbirdclub.org/conservation-fund-awards>

Australasian:

Australian Bird Study Association Research Fund:

Each year, the Association awards grants to its members to support specific projects that increase our knowledge of Australian birds. Usually, two grants are awarded. The purpose of the grants is to fund equipment purchases to enable new projects to get started, or to sustain long-term projects.

Read more:

<https://www.absa.asn.au/grants-2/fund-for-avian-research/>

Birds Queensland Research Grant:

Each year Birds Queensland offers small grants for research relating to the conservation of birds and their habitats in Queensland, especially those under threat. The closing date for applications is 31 August 2017.

Read more:

http://birdsqueensland.org.au/research_grants.php

Neartic:

Carolina Bird Club grants: The CBC provides grants to support research, education and conservation of birds of the Carolinas and their habitats.

Grant applications are accepted on an ongoing basis. The CBC Grants Committee meets quarterly to review applications. Read more:

<https://www.carolinabirdclub.org/grants/>

Delaware Museum of Natural History, Collection Research Grants:

The Collections & Research Division of the Delaware Museum of Natural

History announces the availability of graduate student grants in support of research in the Museum's collections.

Read more:

<http://www.delmnh.org/collections-research/collection-research-grants/>

Harold Mayfield Research Award:

for undergraduate and graduate college students conducting research projects that will enhance knowledge of the flora, fauna, or geology of the Toledo area.

Read more:

<http://www.toledonaturalist.org/donate/>

Lillian C. Stoner Award, New York State Ornithological Association:

a fund to enable a student to attend the Annual Meeting each year.

Read more:

<http://www.nybirds.org/FedAwards.htm>

Maryland Ornithological Society, Avian Research Grants:

a number of research grants to encourage the study of birds in Maryland.

Read more:

<http://www.mdbirds.org/education/grants/grants.html>

Neotropics:

Neotropical Bird Club, awards grants:

for conservation work or research that has an intended conservation benefit. Next deadline: July.

Read more:

<http://www.neotropicalbirdclub.org/conservation/conservation-fund/>

Pamela and Alexander F. Skutch Research Award, Association of

Field Ornithologists: supports minimally invasive research into the life histories, especially social relations and reproduction, of little known birds of the continental Neotropics, including Trinidad and Tobago. Deadline: 15 July.

Read more:

http://afonet.org/wp_english/grants-awards/skutch-award/

nts-awards/skutch-award/

Oceanian:

Craig S. Harrison Conservation Fund:

The Conservation Fund makes grants for conservation of seabirds in the Pacific Ocean, and for expanding seabird expertise

in developing countries within or bordering the Pacific Ocean.

Read more:

<https://pacificseabirdgroup.org/grants/>

If you know of more grants, please, let us know. Thank you!

Editor's Choice

We would like to share with you some recent papers that may influence the way we see birds. Enjoy!

Lamichhaney, S., Han, F., Webster, M.T., Andersson, L., Grant, B.R. & Grant, P.R. (2018) *Rapid hybrid speciation in Darwin's finches*. *Science*, 359, 224-228. DOI:

10.1126/science.aao4593

This exciting paper describes a case where cross-species hybridization founded a reproductively isolated lineage demonstrating a process known as homoploid hybrid speciation. Lamichhaney and colleagues used genetic markers and phenotypic analyses to show how a cross-island migrant bred with a native species to form a self-perpetuating hybrid population that was reproductively isolated from both parental species.

Read more: <http://science.sciencemag.org/content/359/6372/224>

Gabirot, M., Buatois, B., Müller, C.T. & Bonadonna, F. (2018) *Odour of King Penguin feathers analysed using direct thermal desorption discriminates between individuals but not sexes*. *Ibis*, 160, 379-389. doi: 10.1111/ibi.12544

The role of olfactory signals by penguins is fundamentally under-investigated, with only a few studies suggesting that odours are involved in prey detection, orientation and for interspecific communication. Gabirot and colleagues here show that volatile organic compounds from feathers could possibly be used by King Penguins to locate the colony and recognize individuals.

Read more: <https://onlinelibrary.wiley.com/doi/full/10.1111/ibi.12544>

Amélineau, F., Fort, J., Mathewson, P., Speirs, D., Courbin, N., Perret, S., Porter, W.,



(photo by chuttersnap on Unsplash)

Wilson, R. & Grémillet, D. (2017) *Energyscapes and prey fields shape a North Atlantic seabird wintering hotspot under climate change*. *Royal Society open science*, 5, 171883.

There is an urgent need for a better understanding of animal migratory ecology under the influence of climate change. Amélineau and colleagues successfully use an innovative concept, energy landscapes (or energyscape) to understand the ecological drivers of seabird migration and movements.

Read more: <http://dx.doi.org/10.1098/rsos.171883>

Birds in the News

An Expert's Take on How to Prevent the Next Extinction: Audubon interviewed *Carl Jones* who has saved nine species from going extinct in the past 40 years. Is it possible to bring a species back from the brink, even when it seems too late? To Carl Jones, the answer is simple: "All species are salvable. And it's not that hard."

Read more:

<http://www.audubon.org/news/an-experts-take-how-prevent-next-extinction>

Previously unknown 'super-colony' of 1.5 million penguins discovered in Antarctica's remote corner: The thriving colony inhabits the Danger Islands, where the effects of both

climate change and human activity are less pronounced than in other parts of Antarctica.

Read more:

<https://www.independent.co.uk/news/science/antarctica-penguins-supercolony-ad-likely-climate-change-unknown-discovered-danger-islands-a8236121.html>

Four Australian bird species up-listed to worse conservation status:

The plight of a number of Australia's threatened species of birds has been recognised by the Federal Government, with four more having their conservation status 'up-listed' under the EPBC



(Photo by Roman Kraft on Unsplash)

Act: the Noisy Scrub-bird, Western Bristlebird, Baudin's Black-Cockatoo, and Crimson Finch.

Read more:

<http://birdlife.org.au/media/threatened-species-on-the-move/>

Research Tools

These are exciting times in science. New tools are developing very fast and allowing us to tackle ambitious new questions every year. Here we share some of them with you:

ICARUS: The new experimental global tracking system ICARUS will launch to the International Space Station (ISS) soon. It consists of three large antennas and an on-board decoding computer. All ICARUS data will be serviced to participating scientists via Movebank (<https://www.movebank.org/>). The non-profit ICARUS company will soon provide a web form to declare your possible interest in using 5-g GPS/acceleration/magnetometer

tags ready for deployment in 2017.

Read more:

<http://www.icarusinitiative.org>

Avian genomic – database: The

evolutionary relationships of extant birds are among the most challenging to understand in systematic biology and have been debated for centuries. To address this challenge, we assembled the genomes of 48 avian species from most orders of birds, including all Neognathae and two of the five Palaeognathae.

Read more:

<http://avian.genomics.cn/en/jsp/database.shtml>



(Photo by Hunter Haley on Unsplash)

DIVA-GIS: Free geographic (GIS) data (shapefiles) for any country in the world. Layers: Administrative areas (boundaries), Inland water, Roads, Railroads, Near global 90 meter resolution elevation data, Land cover, Population, Species occurrence data, High resolution satellite images (LandSat), and Global climate data (WorldClim).

Read more:

<http://www.diva-gis.org/gdata>

Conservation

Conservation scientists 'shocked' at logging of endangered swift parrot nesting site: Scientists working to save a critically endangered species say they are shocked and frustrated about the logging of a known swift parrot nesting site in southern Tasmania. Dr Dejan Stojanovic, a conservation biologist at the Australian National University, said he and his research team had been monitoring the habitat at Tyler's Hill for a decade. Last week he visited the site to plan for the installation of predator-proof nest boxes, used to protect the birds from sugar gliders. Upon arrival he found the area had been felled. This is a major setback for the efforts being carried out by Dr. Stojanovic who in a recently published paper recommended urgent actions to

prevent the extinction of the Orange-bellied Parrot. These include among others, fostering captive-bred nestlings to the wild, the burning of moorland in breeding range to address food limitation, increasing the number of captive-bred birds released to the wild in order to facilitate some of the actions that aim to increase the size of the wild Orange-bellied Parrot population, the intense monitor of wild nests, and the recaptured of captive-bred released birds (particularly females) at the end of each breeding season, who should be held over winter, and then be released again the following spring.

Read more:



(Photo by Dr Dejan Stojanovic)

<http://www.abc.net.au/news/2017-11-12/endangered-swift-parrot-nesting-boxes-destroyed-in-logging/9142214>

and Stojanovic, D., Alves, F., Cook, H., Crates, R., Heinsohn, R., Peters, A., Rayner, L., Troy, S.N. & Webb, M.H. (2018) Further knowledge and urgent action required to save Orange-bellied Parrots from extinction. *Emu*, 118, 126-134. <https://doi.org/10.1080/01584197.2017.1394165>

Conferences

Congresses and meetings of interest to ornithologists

International Ornithological Congress

19-26 August 2018 - 27th International Ornithological Congress, Vancouver, BC, Canada: Considered the oldest and most prestigious of meetings for bird scientists, the Congress occurs every four years since first being held in Vienna, Austria, in 1884. Since the beginning, the IOC has provided the platform where ornithologists from all over the world meet to share up-to-date research and conservation accomplishments and concerns.

Read more: <http://www.iocongress2018.com/>

Other international conferences:

30 July-3 August 2018 - 11th International Conference on the Applications of Stable Isotope Techniques to Ecological Studies (IsoEcol 2018), Viña del Mar, Chile: Like previous IsoEcol meetings, IsoEcol 2018 will bring together an exciting global mix of researchers at different career stages from universities, industry and government with common interests in the development and



(Photo by Mikael Kristenson on Unsplash)

application of stable isotope techniques to the ecological sciences. Read more: <http://isoecol.com/2018/>

15-19 October 2018 - Climate Impacts on Top Predators (CIOTOP), National Taiwan Ocean University, Keelung, Taiwan: Increased pressure is

being placed on wildlife as our global climate changes, habitats are modified and resources are consumed. Understanding the function of species and populations in ecosystems, their key habitats and resource requirements and their capacity to adapt to a changing environment are essential in the management of ecosystems.

Read more:

<http://imber.info/events/imber-working-groups-program-events/4th-cliotop-symposium>

North America:

7-9 June 2018 - AFO/WOS 2018 Meeting, Chattanooga, Tennessee, USA: The 2018 Annual Meeting of the Wilson

Ornithological Society (WOS) will be jointly held with the Association of Field Ornithologists (AFO) at the Chattanooga Convention Center.

Read more:

http://ornithologyexchange.org/meetings/database.html/_/bird-meetings/upcoming-bird-meetings/2018-afowos-meeting-r130

Courses and Workshops

In this section of the IOU Newsletter, we provide information and links about courses and workshops for PhD students, postdocs, and professional researchers:

7-11 May 2018 - Advances in Spatial Analysis of Multivariate Ecological Data: The course will describe recent methods (concepts and R tools) that can be used to analyse spatial patterns in community ecology. The umbrella concept of the course is beta diversity, which is the spatial variation of communities. These methods are applicable to all types of communities (bacteria, plants, animals) sampled along transects, regular grids or irregularly distributed sites.

Read more: <https://www.prstatistics.com/course/advances-in-spatial-analysis-of-multivariate-ecological-data-theory-and-practice-mvsp03/>

25-29 June, 2018 - 11th Berlin Summer School on Non-invasive Monitoring of Hormones: The course is suitable to colleagues/students who are not familiar with non-invasive techniques and will allow

participants to gain practical experience in techniques of non-invasive endocrine monitoring including sample workup preparation, performance of enzyme immunoassays (EIA), data collection and interpretation.

Read more: <http://www.izw-berlin.de/summer-school-717.html>

20-24 August 2018 - Summer Course in Paleoclimate Time Series Analysis: This Summer Course in Paleoclimate Time Series Analysis is devoted to



better understanding the climate on Holocene to Cenozoic

(Photo by Rita Morais on Unsplash)

timescales. The course is specifically tailored to the needs of PhD students, postdocs and professional researchers in climatology, ecology, environmental sciences, geosciences, meteorology or hydrology.

Read more: <http://www.climate-risk-analysis.com/courses/time-series/Summer-Course-in-Paleoclimate-Time-Series-Analysis-2018.html>

Contact

For feedback or more information, or to provide information to be included in the IOU Newsletter contact the following

Prof. Dr. Hans-Christoph Winkler
 Editor-in-Chief, IOU Newsletter
 Chair, Communications and Publications Committee,
 International Ornithologists' Union
 Konrad-Lorenz-Institut für Vergleichende Verhaltensforschung
 Department für Integrative Biologie und Evolution
 Veterinärmedizinische Universität Wien
 Savoyenstr. 1a, A-1160 Wien
 Austria
 Phone: +43 (1) 25077 7322
 Fax: +43 (1) 25077 94 7322
 e-mail: Hans-Christoph.Winkler@oeaw.ac.at

Dr. Juan F. Masello
 Associate Editor, IOU Flutter
 Member,
 Communications and Publications Committee,
 International Ornithologists' Union
 Justus-Liebig-Universität Gießen
 Heinrich-Buff-Ring 26
 D-35392 Giessen
 GERMANY
 e-mail:
psittaciformes@internationalornithology.org
<http://www.uni-giessen.de/masello>



(Photo by Kirsty TG on Unsplash)

David Williams, Executive Director
 Headquarters, International Ornithologists' Union
 28790 Chagrin Blvd., Ste 230
 Cleveland, Ohio 44122
 e-mail:
dwilliams@internationalornithology.org