



# NEWSLETTER

## International Society of Chemical Ecology

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### — ISCE Award Winners —

<b>Silver Medal</b>	Gerhard Gries
<b>Silverstein-Simeone Award</b>	Paulo Zarbin
<b>Early Career Award</b>	Tobias Züst
<b>Applied Chemical</b>	John Borden

## Message from the President

I am grateful and honored to be writing these words as President of the ISCE. Ever since my first meeting in Syracuse in 1994 as a first-year graduate student, I have considered the ISCE my main scientific home. A chemist by training and biologist by heart, I have always treasured the multidisciplinary nature of the ISCE. Our meetings feature a great variety of angles in which we question and understand the role of chemicals as mediators in biological interactions. From animal behavior to organic chemistry, from community ecology to pest management, from neurosciences to the new language of “omics” and big data, I wander through the program of any ISCE meeting and inevitably think that our diversity is our main strength. I invite you to look at the former awardees of our main scientific awards, the Silver Medal, Silverstein-Simeone and Early Career Awards. The richness

and progress of our field and our Society lies right there, in the diversity of some of our finest chemical ecologists recognized in the past. For those of us interested in understanding chemical interactions in nature, the ISCE is unique in making us more broad-minded scientists. So, as disciplines become more and more specialized, and the coexistence of our multiple approaches becomes more challenging, we should keep up our efforts to care for and cherish our own scientific diversity.



This is not just another year. As the new ISCE President opening our 3<sup>rd</sup> Newsletter of the year, I should be thanking Jeremy Allison and the rest of the organizing team for a wonderful meeting in South Africa. Unfortunately, as you all know, we had to postpone the meeting due to the CoVID-19 pandemic. I do thank them for their superb efforts, resilience and organisational skills, which have made it possible to confirm the meeting for September 2021. Currently, however, we are experiencing a truly unexpected event, at least in the global dimension in which it has unfolded. Of course, there have been several novel and worrisome pathogens throughout our lifetimes, even during this young 21<sup>st</sup> century, but the global effects of the CoVID-19 pandemic took most of us by surprise. Science has and will undoubtedly play a most relevant role in defining how and when this pandemic will end. However, we are also witnessing the worst of the anti-science world that surrounds us. Although our field is not closely related to virology, epidemiology or immunology, it is our duty as scientists to engage and oppose anti-science claims with polite but firm arguments.

This pandemic has brought many new problems and worsened existing ones. The ongoing worldwide economic crisis will almost certainly deepen inequalities both within and between countries, a sad and inevitable truth of our global society. However, as clichéd as it may sound, the pandemic has created many new opportunities that we should not overlook. It has been difficult to adjust to home work and travel shutdown, but they have given the environment a much-needed break. It is an opportunity to measure some of the impacts of our frantic activities in a way that was unthinkable just one year ago. We have had to rush into online solutions for teaching, holding lab meetings and administrative councils, as with so many other common daily tasks. Many of them turned out quite well! The tools were already there, but most of us were somehow oblivious to them.

This massive turn toward virtual events has clearly reached academic meetings. We have all experienced a landslide of virtual scientific meetings and they are leaving, at least for me, two main lessons. First, in person meetings are very much needed for the advancement of science. It is no news that science rests in the shoulders of strong collaborations, and we tend to build better and trusted working relationships face-to-face. That coffee break after a great symposium, that game-changer piece of advice in

front of a poster, that relaxing evening after a long meeting day, have all been the grounds for building synergism in science, and have been the launch of countless new collaborations. We all want to go back to that, and we will. Having said that, a second lesson has been that another form of academic exchange is possible. It is different, it focuses on the talks, and it seems to be working. Scientific meetings with a zero-carbon footprint were already in the minds of some, but now they are here to stay. Virtual meetings open a world of new opportunities to increase all forms of diversities in the speakers and attendees. They will be, and already are, a more democratic platform for exchanging science at all career stages. We may be seeing too many of them in the upcoming months, but virtual scientific meetings will most certainly find a new equilibrium when this pandemic is finally over, and I believe the ISCE should be part of this new paradigm. We have a superb list of ISCE meetings already appointed for the upcoming years; we all miss and treasure our annual summer meetings, but why not consider an ISCE-sponsored virtual seminar series? Not just to get by during the pandemic, but as part of a regular yearly schedule that will certainly provide with new opportunities for chemical ecologists from all over the world to show their work. It is a long shot, but one that I would like to brainstorm about during the next few months with those of you who may be interested in this.

The ISCE is in good shape. We have a steady membership base; our funds are in good shape and well administered by our Treasurer, Kerry Mauck; and we are lucky to count on our Secretary, Irena Valterová, for a new term. Our flagship journal, the *Journal of Chemical Ecology*, is thriving in the competitive world of scientific journals, thanks to the work of its Editor in Chief, Gary Felton. Completing our Executive Committee are the Past-President, Jerry (Junwei) Zhu, who has done a terrific work during the past year as President, and our new elected Vice-President, Stefano Colazza: congratulations and welcome on board! We also have a diverse and qualified team of Councilors keen to provide insightful input and new ideas. I look forward to work in close collaboration with the Councilors and to incorporate as much as possible their advice. Please, feel free to write me directly with any concern or proposal you would like us to consider!

Of paramount importance, we need to attract the new generations of chemical ecologists. In the past few years, the ISCE has significantly increased the number of student and postdoc travel awards. We need to continue this trend and devise innovative ways to increase the visibility of our student and postdoc awardees during our meetings. With the newer generations in mind, a team of young members and Councilors led by Christelle Roberts have formed a social media group to increase the visibility of our Society in social media. In addition to our webpage kept in great form by Robert Mitchell, our new social media accounts are already showing excellent results. Thank you and keep up the good work!

A final word to our regional societies. We have tightened

our bonds with the two regional chemical ecology societies, APACE and ALAEQ. This will hopefully increase the geographic diversity of our membership and further promote chemical ecology internationally. Travel and participation awards were cleverly devised two years ago to promote the cross-participation of members of the three societies in each other's meetings. I would like to consolidate these new bonds and work as closely as possible with APACE and ALAEQ officers to further coordinate the work of the three societies.

This has not been an easy year. I look forward to working with you to make 2021 a great year for the ISCE!

Sincerely,

Andrés González, ISCE President

## Message from the Past-President

Although time flies fast and the coronavirus spreads globally, the ISCE is still making progress despite the pandemic. With the help of our executive committee, councilors, and all supporting members, the ISCE has surprisingly accomplished several major goals during this difficult time, such as



the establishment of the first ISCE Applied Chemical Ecology Award joining with our existing other three big awards (Silverstein-Simeone Award, Silver Medal Award and Early Career Award). Here, I would like to express my deepest appreciation to two companies that generously agreed to support and finance the new Applied Chemical Ecology Award, Apex Bait Technologies, Inc. and Pherobio Technology Co. Ltd. Congratulations to the following ISCE members: **John Borden** was awarded the first ISCE Applied Chemical Ecology Award; **Gerhard Gries** received the Silver Medal Award; **Paulo Zarbin** was presented the Silverstein-Simeone Award; **Zúest Tobias** won the Early Career Award.

Thanks to Walter Leal, ISCE had our first ISCE presidents' reunion virtually with a Zoom Meeting in June this year. With a total of 23 attendees, former and current presidents from Brazil, Canada, France, Germany, Sweden and the USA all joined. A new initiative was started during the discussion of virus prevention strategies, through which we discovered that many of our elderly members had difficulties receiving masks for their personal protection. With the help of all members from the Chinese Chemical Ecologist Association (CCEA) (through donation, purchasing, and shipping to needed ISCE members worldwide), the **ISCE-CCEA Mask Movement** successfully provided simple personal protection equipment (hundreds of various medical surgical and N95 masks) to members who needed the most in the US, Europe and South and Central America. Here, I would like to express my gratitude to our

Chinese colleagues for your generous and efforts to help us.

The soon-past 2019-2020 has been a rough year for all of us. The pandemic not only forced us to cancel the annual meeting in South Africa, but the whole world has also been impacted by many political movements that affect our lives significantly. This has marked the first time the ISCE echoed the message of protests calling out systemic racism in the U.S. and around the world. This will also not be the last; as an international scientific society, we will continue to uphold our responsibility to confront all sorts of racism and discrimination affecting our communities. The ISCE has been largely supported by the contributions of our memberships. We have about 500 members annually with dominant contributions from the US and EU countries. In the last year, we have seen a significant increase in members who joined from Asian countries (a 220% increase), particularly from China (from 2 members in 2019 to 17 joined ISCE in 2020). With three new Asian councilors elected this year, we hope to see more Asian chemical ecologists joining the society in 2021.

We are incredibly pleased to announce that our Secretary **Irena Valterová** has agreed to serve this important position for another three years. Irena has done so much for our society (maintaining routine business and the newsletter and supporting all initiatives). Special thanks to our departing councilors (Vincas Buda, Gabrielle Nevitt, Sandra Steiger, and Sybille Unsicker) and our Past-President (Christer Löfstedt) for your excellent service; we will certainly miss your significant contribution in the last three years. However, the ISCE is in good hands with **Andrés González** as President and **Stefano Colazza** as Vice President, as well as our existing councilors and the five newly elected ones (Etya Amsalem, Gen-Ichiro Arimura, Yonggen Lou, Christian Pirk, and Wei Xu). The newly elected officers have numerous leadership skills from their engagement with not only ISCE, and also APACE, ALEAQ, and other extensive experience in professional society governance.

Last, but not least, I would like to thank all the ISCE executive members, councilors, and all members who helped me to implement our agenda through the turbulence of this past year. My gratitude also goes out to this year's conference organizers and all other meeting organizers from APACE and ALEAQ for your understanding and support to reschedule all affected chemical ecology conferences accordingly in the next three years. I look forward to seeing you all at the ISCE annual meeting in South Africa next year.

Sincerely,

Junwei (*Jerry*) Zhu, ISCE Past-President

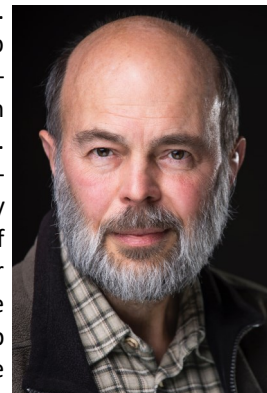
## ISCE Award Winners

The 2021 winners are **Gerhard Gries** (ISCE Silver Medal) and **Paulo Zarbin** (ISCE Silverstein-Simeone Award). The winner of the 2020 Early Career Award is **Tobias Züst** and the newly established Applied Chemical Ecology Award is given to **John Borden**.

## Congratulations to all winners!

## The 2021 ISCE Silver Medal to Gerhard Gries

**Gerhard Gries** is a Professor in the Department of Biological Sciences at Simon Fraser University (SFU). He received his PhD in forest entomology from the Georg-August-Universität in Göttingen (Germany) in 1984. Supported by a postdoctoral fellowship from the Deutsche Forschungsgemeinschaft, he joined Dr. John Borden's laboratory at SFU in 1986. After a 2-year limited-term appointment, he became a tenure-track faculty member in 1991, reaching the rank of Full Professor in 2000. Early in his career – closely collaborating with his wife Regine Gries – Gerhard's research group has devoted a large body of work to the discovery and application of new semiochemicals. Developing their own tools to elucidate the structure of trace chemicals, many of which present in such low quantities that spectroscopic data were not obtainable, the group has elucidated new chemical communication signals and foraging cues in diverse insect taxa including moths, midges, true bugs, beetles, parasitoid wasps, and social insects. In 1999, inspired by a research project on moths, Gerhard expanded the research program from chemical ecology to multi-modal animal communication ecology. To put it in the words of Thomas Baker, Gerhard's group is now "Learning the Language of Insects [or animals] – and How to Talk Back". This broad, multi-sensory approach has allowed Gerhard to attract industrial funding and to develop control tactics for pest organisms irrespective of their type of communication system. Gerhard is currently in the 16th year of an Industrial Research Chair on "Multimodal Animal Communication Ecology" supported by BASF, Scotts Miracle-GRO, and the Natural Sciences and Engineering Research Council of Canada. Gerhard's Chair studies communication and foraging, or inter-kingdom signalling, in insects, spiders, ticks, rodents and microbes, and embraces a wide range of sensory modalities including olfaction, vision, audition, vibration, magneto-reception, and infra-red sensing. With 285 publications in peer-reviewed journals to date (78 in the Journal of Chemical Ecology), Gerhard has never lost the thrill of discovery and he thoroughly enjoys working with an interdisciplinary team of colleagues and a large cohort of bright and enthusiastic graduate students. Although Gerhard's first love will always be chemical ecology, he is more than "flirting" with communication ecology.



## The 2021 ISCE Silverstein-Simeone Award to Paulo Zarbin

**Paulo H. G. Zarbin** is a full professor at the Department of Chemistry at Federal University of Paraná (Curitiba, Brazil), where he coordinates the Laboratory of Semochemicals. Graduated in chemistry at Federal University of São Carlos – Brazil (1993), obtained his master's degree in Organic Chemistry (1995) and doctor of Science (1998) at the same institution, having completed part of his doctorate at the National Institute

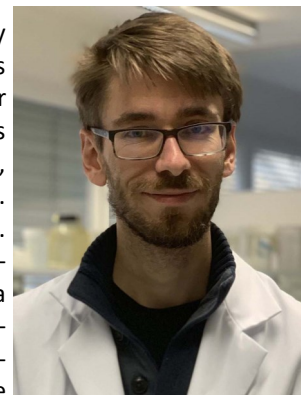


of Sericultural and Entomological Science, in Tsukuba, Japan (1996-1997), under the guidance of Walter Leal. He has helped promote the field of chemical ecology by organizing national and international conferences and serving in various leadership capacities. Soon after securing tenure as Adjunct Professor at the Federal University of Parana (1998), he organized the first national meeting of chemical ecology in Brazil, which now became a regular event (EBEQ). He played a pivotal role in the formation of the Latin American Association of Chemical

Ecology (ALAEQ) and in 2016 he organized in Iguassu Falls, Brazil, the first ISCE/ALAEQ joint meeting. Meanwhile, he served as host of the 2012 Brazilian Congress of Entomology and organized various winters schools with the main goal of promoting chemical ecology in Brazil and Latin America. He is a member of the ISCE from 1999 and since 2006 has participated continuously in society meetings. He served as ISCE Councilor (2007-2010), Vice President (2010-2011), President (2011-2012), and Past President Councilor (2012-2015). Paulo was also vice president of the Entomological Society of Brazil - SEB (2010-2012), secretary of the Paraná region of the Brazilian Chemical Society - SBQ (2002-2004) and president of the Latin American Association of Chemical Ecology - ALAEQ (2016-2018). He is currently associate editor of the Scientific Reports (Nature), and a member of the editorial board of the Journal of Chemical Ecology (Springer). Paulo has trained over 30 graduate students, most of whom now lead their own research group, and was recognized with the distinguished title of "Pesquisador 1" by Brazil's National Counsel of Scientific and Technological Development (CNPq) for his productivity in research. He received in 2013 the national (Brazilian) award in chemical ecology "Prof. Tércio Ferreira". Paulo's group has been identifying and synthesizing insect pheromones of a wide variety of important pests of agricultural crops in Brazil in the Coleoptera, Hemiptera, Lepidoptera and Hymenoptera, describing several new chemical compounds. His lab also made several identification of host volatiles as insect attractants, always combining different analytical techniques as GC, GC-MS, GC-EAD, GC-FTIR, HPLC, NMR, among others. His contributions to chemical ecology and organic chemistry are documented in over 110 articles in leading international journals, and several of those were published in the Journal of Chemical Ecology.

## The 2020 ISCE Early Career Award to Tobias Züst

**Tobias Züst** earned his PhD degree from the University of Zürich in 2012 under the supervision of Dr. Lindsay Turnbull. His thesis focused on the role of 'Aphids as drivers of natural selection on plants' and resulted in several papers, including a highly cited article integrating molecular and chemical ecology,



evolution, and biogeography published in Science. Following his PhD, he was awarded a 3-year postdoctoral fellowship by the Swiss National Science Foundation (SNSF), which he spent in the lab of Prof. Anurag Agrawal at Cornell University. In 2015, Tobias returned to Switzerland and the University of Bern on a competitive SNSF Ambizione fellowship, where he established an independent research program on the role of novel plant defense compounds in plant-insect coevolution. Recently, he was awarded a prestigious ERC Starting Grant, which will fund him and his research group for the next five years.

Throughout his career, Tobias has developed a research avenue on understanding the functional role of plant defensive chemicals in plant-herbivore interactions. Driven by this overarching goal, Tobias has worked on a diversity of model systems and developed substantial expertise in analytical chemistry, metabolomics, molecular biology, and statistics, while combining small-scale laboratory approaches with larger-scale experimental and field studies.

In one of the first examples of experimental evolution in plants, Tobias showed how feeding by aphid herbivores can select for distinct glucosinolate profiles in communities of genetically diverse *Arabidopsis* plants. He combined experimental findings with a large-scale dataset of aphid abundances and chemotype distribution across Europe, by which he confirmed that insect herbivores may indeed be driving large-scale patterns in defense expression of plants. Having found strong effects of insects on plants, Tobias then inverted his focus during his postdoc and studied how variation in cardenolide toxins of the plant genus *Asclepias* affected performance and survival of associated aphid communities. While he discovered that direct effects of toxicity are scarce in this specialized system, he found that indirect effects on higher trophic levels are of central importance: structural properties of the cardenolide toxins determine whether they are sequestered or exuded in the aphid's honeydew, where in turn they either provide defensive benefits against predators or deter mutualistic ants, respectively. To better understand coevolutionary processes in plant-herbivore interactions, Tobias most recently began working with the genus *Erysimum* (Brassicaceae) as a system in which the novel gain of cardenolides has resulted in a release from specialized herbivores. Together with Georg Jander of the Boyce Thompson Institute, he is now working to firmly establish this system as powerful tool for chemical ecology and molecular biology, and to address some of the most exciting open questions in evolutionary biology of plant-insect interactions.

## The 2020 ISCE Applied Chemical Ecology Award to John Borden

**John Borden** graduated from high school in Vancouver, BC, Canada in 1955, flunked out of pre-med at the University of BC in 1957, was honorably discharged from the United States



Marine Corps in 1961, and finally graduated from Washington State University in 1963, with a BSc in entomology. He received an MSc in forest entomology from the University of California, Berkeley in 1965, and a PhD in 1966, both under the supervision of pioneering chemical ecologist David L. Wood. That year, he joined Simon Fraser University in Burnaby, BC, where for 37 years he taught entomology and pest management, supervised 101 graduate

students, and received over \$11 million in external grant support. He has published 404 refereed papers, mainly on insect chemical ecology and development of semiochemical-based integrated pest management (IPM) programs for forest, agricultural and urban insect pests. John has also received 11 patents. His work on ambrosia beetles led to the world's longest-running semiochemical-based IPM program (1982-present). In 2003, the day after mandatory retirement, he joined the dark side, becoming Chief Scientific Officer at Contech Enterprises Inc. (then Phero Tech Inc.). Following Contech's bankruptcy in 2015, he got a new job and a welcome demotion on being rescued by Scotts Miracle-Gro. In 2017, he established a sole proprietorship consulting company, JHB Consulting, which now demands his full attention. With industry, he has worked on developing new products for bark beetles, honey bees, yellowjackets, fruit flies, bed bugs, synanthropic flies, ticks, mosquitoes and rodents. John has received many honors and awards, among them the ISCE Silver Medal, and election as Fellow of the Entomological Societies of America and Canada, and the Royal Society of Canada. In 2009 he received an Honorary Doctor of Laws from the University of Northern British Columbia. Still breathing at the age of 82, he finds that work is a great retirement hobby.



## Online Meeting of the ISCE Executive Committee and Councilors

On September 10, 2020, the ISCE Executive Committee and ISCE councilors had an on-line meeting. The meeting was attended by almost all EC members and councilors. Several important issues have been discussed under the circumstances of the Covid-19 pandemic. The most important decisions are listed below:

1. The tentative date of the **next ISCE Annual Meeting** in South Africa is September 5-10, 2021. *Next meetings*: 2022 Malaysia; 2023 India. The 2024 Meeting will be held in Prague, Czech Republic (approved unanimously), followed by New Zealand in 2025 or 2026, depending on the APACE planning (approved unanimously).

2. **Treasurer report** was given by Kerry Mauk. The financial result has been approved by present members unanimously. The Auditing Committee, consisting of Anne-Geneviève Bagnères and Coby Schal, approved the Annual Report of the financial operations given by the treasurer.
3. **Journal of Chemical Ecology**. There is currently a call for papers for a Special Issue on "The Chemical Ecology of Predator-Prey Interactions", Guest Edited by Sara Hermann and Jennifer Thaler. Target date for publication June, 2021. We are in the early stages of planning a Special Issue on "Induced Plant Defenses" with a target date for publication in late 2021.
4. **New initiative** was introduced by Andrea Clavijo McCormick. A joint initiative of ISCE, APACE and ALAEQ is aiming at strengthening links between members of the 3 sister societies, at an increase of networking opportunities, identifying gaps, and attracting new members. Andrea suggests to create a poll to be distributed to members of the 3 societies asking relevant questions on their age, gender, education, expertise. Outputs of the poll will be shared with executives of the societies (poll report) and a Directory of Chemical Ecologists will be created.
5. **ISCE Presidential Tie & Scarf Design Contest**. Bedoukian Research offered to sponsor the design of a new tie and a scarf that capture the scientific reach of the ISCE. However, even after repeated reminders, only one design arrived from the members. The EC decided to invite members once more to send their designs to be able to make a proper choice.
6. **Transfer of the presidency**. Andrés González Ritzel became the ISCE President for 2020-2021. Junwei Jerry Zhu transferred the presidency virtually and thereafter he became the ISCE Past-President.



## ISCE in Social Media

**The ISCE is now on Twitter, Facebook, Instagram and WeChat!**

ISCE Media Team consists of six members. The team leader is Christelle Robert (Switzerland). Coby Schal was the first ISCE EC representative. As decided at the EC meeting in September, the ISCE Past-President will become the EC representative in the media team for a period of one year. The media team members are M. Fernanda G. V. Peñafior, Chemical Ecology Lab, UFLA, Brazil, Sara Hermann, Department of Entomology, PennState, USA, Lingfei Hu, Section of Plant-Herbivore Interactions, Zhejiang University, China, and Jin Zhang, Evolutionary Neuroethology, MPI-CE, Germany.

Through social media, we aim at promoting research in Chemical Ecology. We publish information about new manuscripts, available positions or funding, and conferences. If you already use social media, follow us @ChemEcol\_org and tag us anytime you want us to relay some information. If you do not use social media, no worry, we can spread information for you: just drop us an email at [socialmedia@chemecol.org](mailto:socialmedia@chemecol.org) and we'll spread the message.

Sincerely,

The Social Media Meam

# ISCE SOCIAL MEDIA TEAM



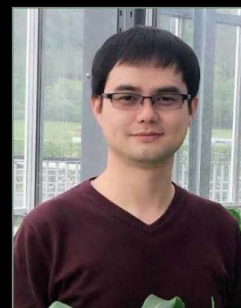
Coby Schal, Director  
USA.



M. Fernanda G. V. Peñafior  
Chemical Ecology Lab,  
UFLA, Brazil



Sara Hermann,  
Department of  
Entomology,  
PennState, USA



Lingfei Hu  
Section of Plant-Herbivore  
Interactions  
Zhejiang University, China



Jin Zhang  
Evolutionary Neuroethology,  
MPI-CE, Germany



Christelle AM Robert,  
Media team leader  
Switzerland

## Society News

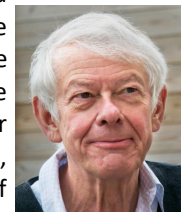
### ERC starting grants for our young members

The ISCE congratulates **Christelle Robert**, head of the Chemical Ecology group at the Institute of Plant Sciences in Bern (Switzerland), for having been granted the prestigious European Research Council Starting Grant. Her project, entitled "Plant Response to Entomopathogenic NEMATodes" (PRENEMA), will investigate how plants can perceive and respond to the presence of predators. We wish her much success in exploring this new dimension of tritrophic interactions.

Congratulations also to **Tobias Züst** for being awarded a prestigious ERC Starting Grant to continue his research on evolution of chemical diversity of plant-insect interactions.

## In memoriam

Désiré Daloze, Dédé, passed away on July 28, 2020, at the age of 80. Désiré Daloze was organic chemist with his main interest in defensive substances of insects (ants, termites, ladybugs) and poisons from marine invertebrates. He published over 200 papers in which he reports on discoveries of many novel isoprenoids (sesqui-, di- and triterpenes) and alkaloids of ecological significance. He collaborated closely with Jean-Claude Braekman and Jacques Pasteels at the Université Libre de Bruxelles, Belgium. Their interest was not only in finding new structures, but also in understanding their mechanisms of biosynthesis and, moreover, their physiological effects and possible use in medicine. May he rest in peace.



Irena Valterová



## News from APACE

### Postponement of the 2021 Joint Meeting of ISCE-APACE in Malaysia

Dear all, due to the current Covid-19 pandemic, major international conferences and meetings have been cancelled. This year's annual meeting of our sister society, the International Society of Chemical Ecology (ISCE) has not been spared either. With final preparations in full swing and being ready for this year's September meeting in Stellenbosch, fears of meeting cancellation came true with the worsening global coronavirus

infections. The APACE executives and councilors have been very sympathetic to the organizers of this year's ISCE meeting. Thus, following discussions between the societies, in the spirit of one big chemical ecology family, we will be moving our Joint Meeting of ISCE-APACE to 2022 instead of next year. This Joint Meeting will be the first held in Malaysia and the 2021 ISCE Stellenbosch meeting will be the first ever held on the African continent.

While we hope that this pandemic will be under control soon, let us stay safe by adhering to "new" norms of maintaining social distancing, use of masks as when required and regular hand washing. We look forward to meet up again

soon in our meetings as we have always enjoyed! In the meantime, it is also good to keep in touch online and of course keeping abreast with the latest discoveries through our official Journal of Chemical Ecology!

### Pherobio-APACE Applied Chemical Ecology Award

We are proud to announce that for the first time, in recognition of the hard work and contribution of our members to applications of chemical ecology, Dr Aijun Zhang (USDA, ARS) has been selected as the first recipient of the Pherobio-APACE Applied Chemical Ecology Award! **Heartiest Congratulations, Aijun!**

The award ceremony will be held during our Joint ISCE-APACE meeting due in Putrajaya, Malaysia in 2022. APACE also wishes to thank Pherobio Technology Co., Ltd. for the generous support towards this prestigious award.

### Announcement of New APACE Councilors

On behalf of APACE, I am happy to announce that 10 members have been appointed to serve as new APACE councilors for the period of 2019-2023. They are as follows:

Xiaoling Sun (China), Ayako Katsumata (USA), Dong Ho Cha (USA), Shannon Olson (India), Kye-Chung Park (NZ), Koji Noge (Japan), Wei-Xu (Murdoch University), Le Van Vang (Vietnam), Wen-Po Chuang (Taiwan), Xiangbo Kong (China)

We welcome our new councilors who will also serve together with current councilors as follows:

Suk Ling Wee (Malaysia), Andrea Clavijo-McCormick (New Zealand), Andrew Hayes (Australia), Hisashi Omura (Japan), Jian Chen (USA), Yooichi Kainoh (Japan). These councilors represent various fields of chemical ecology and regions, and to act in an advisory capacity to the Executive Committee in formulating policy.

Well, that's all the news to be shared with you all folks! Please take care and stay safe!

With best wishes and regards

Alvin Hee

APACE Vice-President



## Call for nominations

### 2022 ISCE Silver Medal and Silverstein-Simeone Award, 2021 Early Career Award, and 2021 Applied Chemical Ecology Award

**The ISCE Silver Medal Award** recognizes career achievement by an outstanding scientist working in the field of Chemical Ecology.

**The Silverstein-Simeone Award**, established in 1995, to honor Milt Silverstein and John Simeone, is made on the basis of recent or current work of an outstanding nature at the "cutting edge" of Chemical Ecology. The recipient must deliver a plenary lecture at the annual ISCE meeting and publish a paper on the same topic in the Journal of Chemical Ecology. The Society gratefully acknowledges the very generous support of the Jean-Marie Delwart

Foundation and Springer for the Silver Medal and Silverstein-Simeone Awards, respectively. Nominators should be ISCE members in good standing. Nominations will be reviewed by the President and Vice President for relevance to the appropriate award, before forwarding them to the full ISCE Executive Committee and Councilors. Should a nomination for one award be considered more relevant for the other award, the President will contact the nominator(s) regarding reconsideration. Current ISCE officers or councilors are not eligible for the awards because of a conflict of interest. Note that previous, unsuccessful nominations must be re-nominated to be considered for an award and the nomination packets for an individual resubmitted.

**The Early Career Award** in Chemical Ecology recognizes an emerging leader in chemical ecology and honor cutting-edge research that will influence the future direction of the field of Chemical Ecology. It was established in 2014. The award is limited to persons who graduated from their Ph.D. studies no longer than 10 years previously. The recipient must deliver a plenary lecture at the annual ISCE meeting in the year of the application. The conference fee, reasonable economy travel, and hotel expenses of the recipient of the Award will be paid for by the society. The nominations will be reviewed by the ISCE Executive Committee and Councilors. Note that previous, unsuccessful nominations must be re-nominated to be considered for the award. An applicant can nominate him/herself or be nominated by an ISCE member.

**Nominations for each of four awards require documents listed on the ISCE website:**

<https://chemecol.org/nominations.shtml>

**Please include all parts of the nomination packet (including supporting letters) in one pdf file and submit in electronic format to ISCE President:**

Andrés González Ritzel

Chemical Ecology Lab / Faculty of Chemistry

Universidad de la República

Gral. Flores 2124 CP 11800, Montevideo, URUGUAY

E-mail: [president@chemecol.org](mailto:president@chemecol.org)

### Vice-President and Four Councilors

The **Vice-President** is a voting member of the Executive Committee. The Vice-President becomes the Society President in the year following tenure as Vice-President, Past President in the next year, and remains as councilor for three years after that. **ISCE Councilors** are elected for a term of three years. It is important that councilors contribute to the running of the society and attend at least two ISCE Executive meetings during their three-year tenure. Principal

responsibilities include participation in the selection of the Silver Medal and Silverstein-Simeone Awards, providing general guidance, advice and assistance to the Executive Committee, and judging student competitions at the annual meeting. It is recommended that a person nominated for the above positions should have a strong record of participation in the Society's activities and meetings.

**Please send names, contact addresses, phone numbers, and e-mail addresses of candidates along with a short description of why you think the candidate(s) would be suitable for office to Junwei (Jerry) Zhu. Please ensure that the person agrees to being nominated before you nominate them.**

Junwei (Jerry) Zhu, United States Department of Agriculture, ARS-AMRU, Lincoln, NE 68583 USA

E-mail: [past.president@chemecol.org](mailto:past.president@chemecol.org)

**The deadline for all nominations  
is January 31, 2021!**

## Trending

in the Journal of Chemical Ecology

### Most downloaded articles from May 2020 — August 2020:

- ◇ **Tadpoles and bacterial community structure of their natural aquatic habitat.** [\[link\]](#)  
May/June 2020. Ujszegi, J., Vajna, B., Móricz, A., Krüzselyi, D., Korponai, K., Krett, G., & Hettyey, A.
- ◇ **The scent of individual foraging bees.** [\[link\]](#)  
May/June 2020. Mas, F., Horner, R., Brierley, S., Harper, A., & Suckling, D.M.
- ◇ **Spider mites cause more damage to tomato in the dark when induced defenses are lower.** [\[link\]](#)  
July 2020. Liu, J., Chafi, R., Legarrea, S., Alba, J.M., Meijer, T., Menken, S.B.J., & Kant, M.
- ◇ **Chemical ecology of multitrophic microbial interactions: plants, insects, microbes and the metabolites that connect them.** [\[link\]](#)  
August 2020. Ali, J.G., Casteel, C.L., Mauck, K.E., & Trase, O.

### Call for ISCE presidential tie and scarf design

[Bedoukian Research](#) is sponsoring the design of a new **tie** and **scarf** that capture the scientific breadth of the International Society of Chemical Ecology!

#### Qualifications:

- The contest is open only to ISCE members and members of affiliated chemical ecology societies ([ALAEQ](#) and [APACE](#)).
- Entries may consist of separate tie and scarf designs, or a single design for both.
- The winning design(s) will be made into a tie (approximately 9 x 150 cm) and a scarf (approximately 20 x 120 cm).
- Design formats: High resolution EPS, TIFF or PDF.

#### The design winner will receive:

- A certificate;
- US\$ 1,000;
- One of the Bedoukian Research-sponsored travel awards to the 2021 ISCE meeting in South Africa.

**Review process:** A committee of ISCE Executive Committee members and ISCE Councilors will select the winning design. Please send your design to [president@chemecol.org](mailto:president@chemecol.org).



#### International Society of Chemical Ecology

President: Andrés González Ritzel  
Vice-President: Stefano Colazza  
Secretary: Irena Valterová

[president \(at\) chemecol.org](mailto:president(at)chemecol.org)  
[vice.president \(at\) chemecol.org](mailto:vice.president (at) chemecol.org)  
[secretary \(at\) chemecol.org](mailto:secretary (at) chemecol.org)