



# Word from the President



Dear colleagues,

The XXVII Brazilian Congress of Entomology and the X Latin American Congress of Entomology are approaching soon. This edition of ISEB includes an interview with the President of the Congress, Jerson Guedes, who mention that approximately 200 Brazilian and international speakers will attend the event which features 50 round tables. For this event, the Eic of our

journal, Neotropical Entomology, is also preparing a series of activities to attract new generations of researchers by familiarizing them with the journal. We also highlight the issue on the Grand Challenges Agenda in Entomology in South America that will be held preceding the XXVII CBE. Thus, we invite all entomologists to participate in XXVII CBE, noting that SEB members are entitled to a discount at registration. Continuing the participation of our society in public policies, the general secretariat participated in the “March for Science - Debate on the present and future of the science, technology, and

innovation sector in Brazil”. The SEB also participated in the II Seminar on Agricultural Entomology and Acarology in the Amazon. This ISEB also includes the *Entomologicus Nomenclator* on Ladybug species, Worth Reading, Entomology in the Press, on the discovery of ant species that explode to defend colony, and Members highlights.

Good reading to all!

Sincerely,  
**Eliane D. Quintela**

## Activities of the Board

### Participation of SEB in the “March for Science - Debate on the present and future of Science, Technology, and Innovation in Brazil”

On July 12, SEB was represented by the Secretary General, Carmen Pires, in the “March for Science - Debate on the present and future of the ST&I sector in Brazil”, an event organized by the Brazilian Society for the Advancement of Science (SBPC) at the Plenary Chamber, in commemoration of the 70th anniversary of the SBPC, for National Science Day (Law 10,221, of April 18, 2001) and National Researcher’s Day (Law 11,807 of November 13, 2008). Participates included 12 representatives of scientific political parties and about 20 representatives of scientific institutions and entities - such as the Brazilian Academy of Sciences (ABC); National Council of Secretaries for Science, Technology, and Innovation Affairs (Consecti); National Council of State Research Foundations (Confap); National Association of Directors of Higher Education Federal Institutions (Andifes); National Council of Foundations to Support Higher Education Institutions and Scientific and Technological Research (Confies); Brazilian Association of Rectors of State and Municipal Universities (ABRUEM); National Association of Graduate Students (ANPG); National Forum of Innovation and Technology Transfer Managers (Fortec); Oswaldo Cruz Foundation (Fiocruz); and the Brazilian Agricultural Research Corporation (Embrapa), among others - as well as representatives of government agencies linked to the science and technology sector,



such as the Coordination for the Improvement of Higher Level Personnel (Capes); National Council for Scientific and Technological Development (CNPq); Funding Authority for Studies and Projects (Finep); and the Ministry of Science, Technology, Innovation and Communications (MCTIC). Brazil needs a Government Policy for science and technology. This was one of the main recommendations that members of the scientific community and lawmakers made during the meeting. The recent budget cuts have reduced the resources allocated to Science, Technology, and Innovation (ST&I) to about a third of what it was eight years ago, and Constitutional Amendment 95 imposed a ceiling on public expenditures for the next 20 years (Source: *Jornal da Ciência* - <http://www.jornaldaciencia.org.br/especialistas-pedem-politica-de-estado-para-criar-comissao-geral-na-camara/>) The session was broadcast live on TV Câmara and shared on the Brazilian Society for the Advancement of Science (SBPC) social networks. The broadcast is available at this link: <http://www2.camara.leg.br/atividade-legislativa/webcamara/arquivos/video/Arquivo?codSessao=74314>

The text read during the event by the president of the SBPC, which was also published in the *Jornal do Brasil* on July 14, 2018, can be found at the link: <http://www.jb.com.br/artigo/noticias/2018/07/14/a-copa-da-ciencia/>

### II Seminar on Agricultural Entomology and Acarology in the Amazon

The Federal University of Amazonas and the Entomological Society of Brazil, under the coordination of Prof. Neliton Marques da Silva of the Laboratory of Agricultural Entomology and Acarology of the Faculty of Agricultural Sciences, held the II Seminar on Agricultural Entomology and Acarology in the Amazon (SEAMA), in Manaus, AM, from June 19 to 21, 2018. The president of SEB, Eliane D. Quintela gave the opening lecture on “Grand challenges in entomology and contributions of the Entomological Society of Brazil”.



The event, which was sponsored by the Amazonas State Foundation for Research Support (FAPEAM), for the second time brought together agricultural entomologists working in the Amazon biome. The academic community and researchers from several research centers participated in the event, with 213 attendees enrolled. It was an excellent opportunity for discussions, debates, and exploration about important topics related to the entomological question in the Amazon, facing the challenge of constructing an agricultural model based on the principles of sustainability. The event included the launch of the e-book version of the book “*Pragas Agrícolas e Florestais na Amazônia*”, which is considered a mandatory reference for all those interested in this subject in the Amazon.

The main conclusions and recommendations defined a research agenda in strategic areas of entomological knowledge in the Amazon region, and the publication of a book addressing the main entomological challenges in this biome.

During the closing meeting, the III SEAMA was approved for 2021, in Porto Velho, in the state of Rondônia. The Organizing Committee is grateful for the support of all the institutions and organizations that contributed to the success of this event.

**Neliton Marques da Silva**  
Event Coordinator



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### The Neotropical Entomology journal at the XXVII Brazilian Congress of Entomology

The Eic of the Neotropical Entomology Eliana Fontes is preparing a series of activities for the XXVII Brazilian Congress of Entomology. As part of our policy of attracting new generations of researchers to become familiar with our journal, we are organizing a mini-course about writing of scientific papers, mainly for undergraduate and graduate students. This course will be taught by Prof. Dr. Reginaldo Constantino of the Dept. of Zoology, University of Brasília.

During the course, the Eic will present the editorial policy of the journal and Ms. Luciana Christante de Mello, Editor of the Springer Life Sciences Section, will address the topic of ethics in scientific publications.

During the Congress the annual meeting of the Editorial Board will occur, where it will be discussed aspects of the editorial policy and a plan of action for the next few years will be established.

In addition to these specific activities, the NE will have a space in the SEB booth, where the Eic will be available to discuss with congress participants the NE, receive criticism, and suggestions.

### Interview with Dr. Jerson Vanderlei Carus Guedes

Professor of the Federal University of Santa Maria, RS, and President of the XXVII Brazilian Congress of Entomology and X Latin American Congress of Entomology

Interview by *Alexandre de Sene Pinto*

**Interviewer:** How is the organization of the XXVII Brazilian Congress of Entomology and the X Latin American Congress of Entomology coming along?

**Jerson:** We are working in a group of about a dozen people, from UFPel, UPE, UFRGS and Embrapa, coordinated by four professors of the Federal University of Santa Maria. There is also another group of colleagues who will work on the abstracts during the event. There are still things to do, but we are optimistic, considering the support we receive with sponsorships, the number of participants and, especially, the programming of the event, the social program, and the town of Gramado.

**Interviewer:** What will be the emphasis at the XXVII Brazilian Congress of Entomology and X Latin American Congress of Entomology?

**Jerson:** First, the theme of CBE 2018 **Entomology in support of health, agriculture, and the environment**, will address these areas to be discussed. Second, when we asked for suggestions of round ta-

bles (RTs), we received close to 80 suggestions, for a programming schedule with less than 50 RTs. This made the selection laborious and difficult, but surely raised the quality of the event program. We will have nine simultaneous rooms and approximately 200 Brazilian and international speakers, as well as the participates from Latin America. The third important aspect was the creation of the Producer and the Consultant Arena next to the booths, where topics related to the most serious or emerging problems in pest management in Brazil will be discussed. The implementation of the Grand Challenge Agenda in Entomology in South America is also worth mentioning, which precedes the CBE and will be attended by several leaders from various countries to discuss the challenges of Sustainable Agriculture, Invasive Species, and Public Health.

**Interviewer:** What can we expect for this event in the charming town of Gramado? Any news?

**Jerson:** This region of Rio Grande do Sul is naturally privileged and has a spectacular tourist structure, similar to places in Europe or North America. Since the 2004CBE, the region has experiences significant progress which will surprise us. The Congress will have to be very good to compete with the beautiful town of Gramado.

**Interviewer:** Biological control of pests is on the rise and in strengthening among farmers throughout Brazil. Will this issue be an important topic in the Brazilian Congress?

**Jerson:** We received two (exclusive) propositions of RTs on biological control, but the theme is transversal and will be covered throughout the program. Another positive aspect is that two large biological control companies (SIMBIOSE and AGBITECH) are sponsors of CBE: therefore, they will share space with companies working with other solutions for pests.

**Interviewer:** How important is it for these events to be held in the southern part of the country?

**Jerson:** Brazil is a continental country, with great diversity of situations and problems, which the CBE theme tries to cover. Therefore, coming to the South is a necessity, to bring the Entomology closer to

people who cannot go to other places, but also to bring the Brazilian entomology scene to Rio Grande do Sul. Another relevant aspect is that we are very close to the countries of the Southern Cone of America and, therefore, we have similarities and the desire to share knowledge and cooperate with them.

**Interviewer:** What message would you as the President of the Congress like to give to the readers!

**Jerson:** We are working hard and motivated by the support we are receiving, with the registrations, and the prospect of an event with more than 2000 people. Come to Gramado in September 2018! Together we will make CBE 2018 an unforgettable event!!

**Interviewer:** We hope that everything flows smoothly and that we have an excellent great event!

**Jerson:** Thank you!

### Agenda for Grand Challenges in Entomology in South America is ready for discussion

Prior to the XXVII Brazilian Congress and the X Latin American Congress of Entomology (XXVII CBE), from 8:30 am to 5:00 p.m. on September 2, in Gramado, RS, the Grand Challenges Agenda in Entomology in South America will be held at ExpoCentro. "The program is completed and will be attended by important leaders of the Entomology societies of South America and the United States," says Antônio Ricardo Panizzi, International Delegate of the Entomological Society of Brazil (SEB) and organizer of the event. Drs. Frank Zalom and Michael Parrella of the Entomological Society of America (ESA) helped to organize the event. SEB through its President Eliane Dias Quintela is providing its full support to make the event a success. "The Grand Challenges in Entomology that began in 2016 in Orlando, Florida, on the occasion of the International Congress of Entomology (ICE 2016) is continuing in Brazil. We consider it an honor to follow up on the construction of an international agenda to discuss the main challenges in the area of Entomology," the President stated.

Challenges include agricultural sustainability (1), invasive pests in agricultural, forestry, horticulture and floriculture systems (2), and public health (3), including yellow fever, dengue fever, and chikunguia. The challenges are being coordinated by entomologists Daniel Ricardo Sosa-Gomes (Embrapa Soja), Marcelo Lopes da Silva (Embrapa Cenargen), and Luciano A. Moreira (FIOCRUZ).

For more information, contact the organizers. The complete schedule of the event is included in the XXVII CBE website in English: <https://www.cbe2018.com.br/en/programme/grand-challenge>



A. R. Panizzi – SEB International Delegate

## Nomenclator entomologicus

100. The names *Chilocorus nigrita* and *Chilocorus nigritus* have both been used to designate the same species of ladybug (Coleoptera: Coccinellidae), which is a predator of scale insects in various parts of the world. The species was originally described by Fabricius in 1798 as *Coccinella nigrita* and later transferred from the genus, which would justify the different epithet specific for the

male. However, "nigrita" is a noun, not an adjective and, according to the rules of the International Code of Zoological Nomenclature, the termination of a noun does not change when combined with a new generic epithet of another gender. Therefore, the correct name of the species is *Chilocorus nigrita* (Fabricius, 1798).

Reference: Samways, M.J. 1989. Climate diagram and biological control: an example from the areography of the ladybird *Chilocorus nigritus* (Fabricius, 1798) (Insecta, Coleoptera, Coccinellidae). Journal of Biogeography 16: 345-351.

Elio C. Guzzo and Izabel V. Souza



# Entomology in the Press

## Scientists discover ant species that explodes to defend the colony

**BANDAR SERI BEGAWAN**—An international team of scientists has discovered a species of ant that uses an unusual tactic to defend the colony. Instead of using soldiers to fight, the workers are sent to the front on suicide missions. They do not engage in battle, they just explode, releasing toxins and a sticky slime to kill or immobilize the invaders.

The behavior was first mentioned in 1916, but no species was formally described since 1935. These ants are endemic to the rainforest of Borneo, an island in Asia divided between Indonesia, Malaysia, and Brunei. For decades, scientists have referred to them as members of the *Colobopsis cylindrica* group.

Researchers at the Museum of Natural History and the Vienna University of Technology in Austria, together with scientists at the University of Brunei Darussalam, have identified and described 15 species of ants, one of them unknown.

The new species, popularly known by the inhabitants of the island as “yellow goo” because of the yellowish secretion released after the explosion, was baptized as *Colobopsis explodens*. It was chosen by researchers as a model for the group as being “particularly prone to self-sacrifice when threatened by enemy arthropods, as well as intruding researchers”.

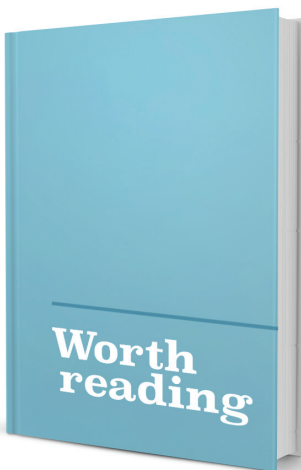
Source: <https://oglobo.globo.com/sociedade/cientistas-descobrem-especie-de-formiga-que-explode-para-defender-colonia-22613422#ixzz5LnszW6T3>



A small worker ant with steep back - Photo: Alexey Kopchinskiy



he large headed worker used to prevent invaders from entering the colony - Photo: Alexey Kopchinskiy



Costa-Silva, V., Grella, M.D. & Thyssen, P.J. **Optimized Pitfall Trap Design for Collecting Terrestrial Insects (Arthropoda: Insecta) in Biodiversity Studies.** Neotrop Entomol (2018). <https://doi.org/10.1007/s13744-018-0613-8>

Haye, T., Girod, P., Cuthbertson, A.G.S. et al. **Current SWD IPM tactics and their practical implementation in fruit crops across different regions around the world.** J Pest Sci (2016) 89: 643. <https://doi.org/10.1007/s10340-016-0737-8>

Pyrz, T.W., Freitas, A.V.L., Boyer, P. et al. **Uncovered Diversity of a Predominantly Andean Butterfly Clade in the Brazilian Atlantic Forest: A Revision of the Genus *Praepedaliodes* Forster (Lepidoptera: Nymphalidae, Satyrinae, Satyrini).** Neotrop Entomol (2018) 47: 211. <https://doi.org/10.1007/s13744-017-0543-x>

Grüter, C., Segers, E., Egers, F.H.I.D et al. **Repeated evolution of soldier sub-castes suggests parasitism drives social complexity in stingless bees.** Nature Communications (2017) 8: 1-1.

## Members

The Agrishow 2018 - 25th International Agricultural Technology in Action Fair hosted the traditional Ceres Goddess Ceremony, held by the Association of Agronomic Engineers of the State of São Paulo (AEASP), on May 2.

As is the case every year, the association, through its Advisory Board, field proposals from the board and association members, to decide the agronomist engineers to honor. The objective is to recognize the contribution of these professionals to agribusiness.

The professor of FAFRAM Agronomist Engineer, member of SEB, **José Antonio de Souza Rossato**



**Júnior** was honored in the Cooperativism category.

Born in Jaboticabal, the agricultural engineer José, who is 36 years old, was honored in the area of Cooperativism in 2017. In addition to being a rural producer, he holds the positions of director-president of Coplana, vice-president of Socicana, undergraduate and post-graduate studies at the Faculty of Dr. Francisco Maeda (Fafram), in Ituverava (SP). He is also professor of the Professional Master's Program in Administration at Unesp, campus of Jaboticabal, responsible for the discipline of Cooperativism with Governance.

José has four academic degrees: undergraduate in Agronomy (2006), postgraduate in Agricultural Entomology, with master's (2009) and doctoral (2012) degrees from the Universidade Estadual Paulista (Unesp), Jaboticabal campus.

The undergraduate degree was obtained through the USDA at the University of California, a sandwich doctorate at the University of Nebraska, Lincoln, and a postdoctoral fellow at the University of Alberta, Edmonton. He worked at DuPont-Pio-

neer Seeds between 2006 and 2007.

To José the congratulations from SEB.

Sources:

<http://www.coplana.com:8090/wcoplana/2018/05/14/presidente-da-coplana-e-homenageado-na-premiacao-deusa-ceres-da-associacao-dos-engenheiros-agronomos-do-estado-de-sao-paulo/>

<http://www.feituverava.com.br/index.php/institucional/noticias/479-professor-da-fafam-sera-homenageado-na-agrishow-2018>





## SEB MEMBERSHIP 2017

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Online Journal <b>R\$ 150,00</b>	Online Journal <b>R\$ 75,00</b>	Online Journal <b>US\$ 75,00</b>
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To join or renew SEB membership, visit [www.seg.org.br](http://www.seg.org.br) or contact us by mail [secretaria@seb.org.br](mailto:secretaria@seb.org.br)

Entomological Society of Brazil

### INFORMATIVE



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