



Newsletter No. 42

Latin America and Electroporation

Newsletter by: Felipe H. Maglietti, Instituto Universitario Hospital Italiano, Argentina
felipemaglietti@gmail.com

Electroporation-based applications (ECT) are being used in Latin America since 2008, mainly in research and veterinary medicine. The two pioneering countries of this region are Argentina and Brazil. In Argentina, the group of Guillermo Marshall started applying it in basic research, in food processing, and in veterinary medicine. This was greatly helped with the visit of distinguished scientists in the field, Lluís Mir, Emanuela Signori, Richard Heller, Boris Rubinsky, Rafael Davalos, Tom Vernier, Javier Raso, and Andrei Pakhomov. Guillermo Marshall was among the founding members of the International Society for Electroporation-Based Technologies and Treatments (ISEBTT). Applications of ECT in veterinary medicine were the fastest to grow and presently there are more than 10 centers, and more than 5,000 veterinary patients have been treated. In Brazil, the group of Marcelo Mor Rangel started applying electroporation in veterinary medicine, and quickly expanded it across the country through their own training course (in Portuguese). Nowadays, they have more than 40 centers and more than 15,000 veterinary patients have been treated. Chile also started their veterinary applications in the same context. The First Latin American Workshop on Electroporation and its Applications (1st LAWE2018) took place in Buenos Aires in 2018 with support from ISEBTT. More than 100 participants from Argentina, Brazil, Chile, Peru, Paraguay, Colombia, Ecuador, Slovenia, and the USA participated at the event. A significant increase in the spread of electroporation in veterinary medicine in Spanish-speaking countries of Latin America resulted from the availability of an ECT course in Spanish. This course, co-organized by Felipe Maglietti and Matías Tellado with help of Guillermo Marshall's group, had the support of ISEBTT, and was very attractive for veterinarians and researchers willing to start using this technology. The main problem in the diffusion of ECT in the Spanish-speaking region was not a lack of interest, but a lack of up-to-date information in Spanish. At the same time, the availability of devices produced locally by an Argentinian company at an affordable price encouraged the use of this technology. After 5 editions of the course, 5 new countries (Paraguay, Ecuador, México, Colombia, and Perú) opened centers for treating veterinary patients. The electroporation community in veterinary medicine is gathering speed and in the next months, several events will take place (read verso for the list).

Continued verso...

**7th School on Pulsed
Electric Field Applications
in Food and Biotechnology**
Zaragoza, Spain **May 25–30, 2020**

ISEBTT International Society
for Electroporation-Based
Technologies and Treatments



Newsletter Editor
Damijan Miklavčič
University of Ljubljana, Slovenia
damijan.miklavcic@fe.uni-lj.si

**Newsletter Technical Editor and
Website Administrator**
Samo Mahnič-Kalamiza
University of Ljubljana, Slovenia
samo.mahnic-kalamiza@fe.uni-lj.si

Society Council Members

Richard Heller, USA
President

Lluís M. Mir, France
President-Elect

Damijan Miklavčič, Slovenia
Past President

Wolfgang Frey, Germany &
Rafael Davalos, USA
*Officer: Engineering / Physical
Sciences*

Marie-Pierre Rols, France &
Maja Čemažar, Slovenia
Officer: Biological Sciences

Julie Gehl, Denmark
Officer: Medical Applications

Javier Raso, Spain
Officer: Food Applications



...continued from previous page

Among these events are:

- November 14 : Argentina – 5th edition of the Electrochemotherapy in veterinary medicine - Theoretical and hands-on course for Latin America (<https://www.cemvargentina.com.ar/cursos/electroporacion-electroquimioterapia-veterinaria-intensivo>)
- November 20: Argentina – Lluís Mir, President-Elect of ISEBTT and a long-time collaborator of Guillermo Marshall's group, will visit the Faculty of Exact and Natural Sciences from the University of Buenos Aires and VetOncologia, delivering lectures at both centers.
- November 22 – 23: Brazil – 2nd Latin American Workshop on Veterinary Electrochemotherapy (<https://www.eventbrite.com.br/e/encontro-latino-americano-de-eletoquimioterapia-veterinaria-registracion-59640130235>)
- November 24 – 29: Argentina – Damijan Miklavčič, Past President of ISEBTT and a long-time collaborator of Guillermo Marshall's group, will visit the Faculty of Engineering of the University of Buenos Aires in the context of a bilateral project Argentina-Slovenia and deliver a seminar.
- November 24 – December 12: Argentina – Emanuela Signori, a long-time collaborator of Guillermo Marshall's group, will visit the Faculty of Exact and Natural Sciences from the University of Buenos Aires and VetOncologia, with support from CRS and the Italian Embassy in Buenos Aires, and deliver a seminar.
- November 25: Peru – 2nd Short course in electroporation with applications in health with Lluís Mir.
- March 2020: Paraguay – 1st Symposium of Cell Electroporation, with the presence of Lluís Mir.

The 2nd Latin American Workshop on Veterinary Electrochemotherapy is coming up soon and already counts on more than 50 participants, many of them international speakers. Lluís Mir will be present at this event showing the support of the ISEBTT.

Forthcoming events

Electroporation-Based Technologies and Treatments

Ljubljana, November 10 – 16, 2019

<http://2019.ebtt.org>

2nd Latin American Workshop on Veterinary Electrochemotherapy

São Paulo, November 22 – 23, 2019

<http://www.electroporation.net/event/second-latin-american-workshop>

PEF School

Zaragoza, May 25 – 30, 2020

<http://pefschool2020.electroporation.net/>

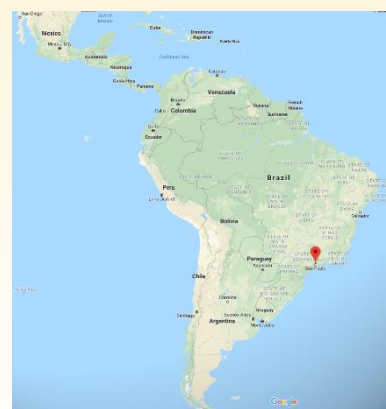
Society Council Members (cont.)

Eugène Vorobiev, France
Officer: Environment Applications

Giovanna Ferrari &
Matej Kranjc
Officer: At Large

Society Development Committee

Hidenori Akiyama, Japan
Xinhua Chen, China
Giovanna Ferrari, Italy
Wolfgang Frey, Germany
Julie Gehl, Denmark
Richard Heller, United States
Henry Jäger, Austria
Guillermo Marshall, Argentina
Damijan Miklavčič, Slovenia
Lluís M. Mir, France
Mihaela Moisescu, Romania
Indrawati Oey, New Zealand
Maria Rosaria Scarfi, Italy
P. Thomas Vernier, United States
Eung Jee Woo, South Korea



Newsletter is issued in electronic form only by The International Society for Electroporation-Based Technologies and Treatments (ISEBTT).

ISSN: 2463-9850

© 2016-2019 ISEBTT