

## Report from AC3 International Commission for Acoustics (ICA) to IUPAP General Assembly and C&CC Meeting in Brazil October 2017

**1. ICA Governance** The ICA comprises the acoustical societies from 49 countries plus 8 international affiliate organizations which themselves have individual members distributed across the world and also organize international conferences every one or two years.

The revised governance arrangements agreed to at the 2013 General Assembly have encouraged greater involvement in the ICA activities and greater interest in nominations for Board positions. The General Assembly was held in Sept 2016 and the new board, effective from 1 October 2016 comprises the executive: President Michael Taroudakis (Greece), Vice-President Jeong-Guon Ih (Korea), Secretary General Michael Stinson (Canada), Treasurer Antonio Perez Lopez (Spain), Past-President Marion Burgess (Australia). The remainder of the board are Julio Cordioli (Brazil), Dorte Hammershøi (Denmark), Bertrand Dubus (France), Martin Ochmann (Germany), Antonino Di Bella (Italy), Kohei Yamamoto (Japan), Grazyna Grelowska (Poland), Monika Rychtarikova (Slovakia), Kerstin Persson Waye (Sweden) and Mark Hamilton (USA). Thus the 15 member board contains 5 females.

The ICA board meets once a year. Last ICA Board meeting was held in Boston MA, (USA), in June 2017.



Distribution of member organizations of International Commission for Acoustics

**2. Symposium Support** Annually, the ICA provides support for specialist symposia which provide opportunities for those working in particular areas of acoustics to meet. The guidelines for selection require some international involvement and there is priority for developing countries. The meetings supported over the period 2014 to 2017 include:

2014 :

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- 6th Congress of the Alps Adria Acoustics Association Graz, Austria
- XXV Encontro da Sociedade Brasileira de Acustica (SOBRAC) Campinas, Brazil
- Intl. Symposium on Musical Acoustics 2014 Le Mans, France
- 11th Intl. Congress on Noise as a Public Health Problem (ICBEN 2014) Nara, Japan
- 2nd Intl. Conference of the Acoustical Society of Nigeria (ASON 2014) Nsukka, Nigeria
- XXXI Symposium on Hydroacoustics, Swinoujscie, Poland
- European Symposium on Smart Cities and Environmental Acoustics Murcia, Spain
- 12th School on Acousto-Optics and Applications Druskininkai, Lithuania (supported by Acoustical Society of America)

2015

- Vienna Talk 2015 on Music Acoustics "Bridging the Gaps", September 16-19 (Vienna, Austria)
- 20th International Symposium on Nonlinear Acoustics (20th ISNA), June 29 - July 3, (Ecully, France)
- Audio and Acoustic Signal Processing 2015, October 8 (Ben-Gurion University of the Negev, Israel)
- The SCIENCE of ACOUSTICS serving the Food, the Nutrition and the Environment, September 25 (Milan, Italy)
- 3rd International Conference of the Acoustical Society of Nigeria (ASON 2015), June 8-11 (Nsukka, Nigeria) (funding provided by Acoustical Society of America)
- XXXII Symposium on Hydroacoustics, May 19-22 (Jurata, Poland)
- EAA European Symposium on Virtual Acoustics and Ambisonics, September 21-23 (Valencia, Spain)

2016

- International Symposium on Music and Room Acoustics (ISMRA 2016), September 12-14 (La Plata, Argentina) (ASA Support)
- New Sounds 2016 - The 8th International Conference on Second Language Speech, June 10-12 (Aarhus, Denmark)
- XXXIII Symposium on Hydroacoustics, May 17-20, (Jurata, , Poland)
- Summer School 2016, June 11-12 (Porto, Portugal)
- Fourth International Workshop "Computational Experiment in AeroAcoustics" (CEAA 2016), September 21-24 (Svetlogorsk, Kaliningrad Region, Russia)
- 7th Congress of the Alps Adria Acoustics Association (AAAA 2016), September 22-23 (Ljubljana, Slovenia)

2017

- Advanced research in timber construction: acoustics quality, environment and safety, March 10 (Bolzano, Italy)
- 27th Joint meeting of the Acoustical Society of Brazil (SOBRAC), May 28-31 (Brasilia, Brasil)

- (funding provided by Acoustical Society of America)
- 12th ICBEN Congress on Noise as a Public Health Problem, June 18-22 (Zurich, Switzerland)
  - European Symposium on Underwater Acoustics Applications and European Symposium of Sustainable Building Acoustics, October 4-6 (Marin and Coruna, Spain)

**3. ICA Congress** The major activity for the ICA is the congress held every 3 years. The ICA 2016 was held from 5 to 9 September in Buenos Aires, Argentina. This is the first time the ICA has been held in South America. Over 600 papers were presented and over 800 participated during the congress. It was particularly noted that around 40% of the participants were students. While smaller than recent ICA congresses, the benefit of bringing such an event to South America was reflected in the enthusiasm of the participants. All the sessions had reasonable attendances, the morning and afternoon tea areas were crowded every day and the closing ceremony had a full theatre with almost as many as attended the opening.

During the opening ceremony, Prof Victoria Bekeris, Departamento de Física, Ciudad Universitaria, Argentina and member of C5 gave an excellent talk on behalf of IUPAP. The IUPAP poster was in a prime location at the entrance foyer for the duration of the congress.



Prof Victoria Bekeris, Departamento de Física, Ciudad Universitaria, Argentina during opening ceremony of ICA 2016

Into the future the ICA 2019 is to be held in Aachen, Germany and the following ICA will be held in South Korea in 2022.



**4. Early Career Awards** The ICA allocates the majority of its annual budget to encourage acoustics activities. The selection process for the prestigious “ICA Early Career Award” commenced in 2015 for the presentation at the time of the 2016 congress. This was awarded to Frank Russo from Canada. He was presented with the award at the ICA Congress and presented a plenary lecture on “Understanding

music perception from the perspective of oscillation and resonance".

**5. Young Scientist Grants** From its resources the ICA awarded 34 Young Scientist congress attendance grants from 66 applications. These were distributed: USA 6, UK 5, Brazil 5, France 4, Australia 2, Canada 2, Korea 2, 1 (Chile, Finland, Russia, Israel, Argentine, Denmark, Sweden, and Poland).

The organisers were particularly grateful for the opportunity the IUPAP grant provided to support more Young Scientist congress attendance grants and these were limited to applications from Latin America. A total of 51 such attendance grants were awarded; of which 12 were for those just finished studying and the remainder for those still Students. The distribution was 19 from Argentina, 2 from Bolivia, 11 from Brazil, 12 from Chile, 1 Spain, 3 from Peru, 2 from Uruguay and 1 from Venezuela.

**6. International Year of Sound** The ICA is continuing with the plans for the International Year of Sound. A steering committee and a working committee have been established. We have secured a domain name and have developed a website framework. We have received very enthusiastic support from a range of organisations and have received seed funding to support the activities leading up to the executive decision. The opportunity of key persons from the steering committee being in Europe for a noise control conference was used to arrange a meeting in Paris with Jean-Paul Ngome Abiaga, Division of Science Policy and Capacity Building, UNESCO Natural Sciences Sector. Jean Paul facilitated meetings with a number of country delegations. The outcome of these was promising.

Due to an unanticipated proposal for an International Year of the Periodic Table in 2019, which had to be that year due to the 150 years anniversary by the Russian chemist Dimitri Mendeleev, the ICA has agreed to move the proposal for an International Year of Sound to 2020.



Logo for the Prospectus for the International Year of Sound 2020

We have a draft prospectus and a draft resolution to be presented to UNESCO. At the 2016 General Assembly of IUTAM a resolution in support of the IYS was passed and this will be particularly mentioned in the resolution. We are also grateful for the support from IUPAP.

Michael Taroudakis President 2016-2019  
Marion Burgess Past President 2016-2019