



Commission C15: Atomic, Molecular and Optical Physics

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**Report for IUPAP
Council & Commission Chairs Meeting
3-4 November 2014
and
28th General Assembly Meeting
5-7 November 2014
Singapore**

The two large international conferences in Atomic, Molecular and Optical Physics—the International Conference on Atomic Physics (ICAP) and the International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC)—are held biennially on alternating years. Accordingly, Commission C15 officers and members met over lunch on 5 August 2014 during the 24th ICAP meeting in Washington DC. Attendance included Commission representatives from Japan (Toshiyuki Azuma), China (Dajun Ding), Korea (Wonho Jhe), Austria (Rainer Blatt), and the United States (Katharine Gebbie). We regretted that the two previous C15 Chairs, Joachim Burgdörfer and Burkhard Fricke were not able to attend and give us the benefit of their experience.

Invitees to our meeting included: Amy Flatten, Director of International Affairs, American Physical Society; Philip Hammer, Associate Vice President, Physics Resources Center, American Institute of Physics, and Gretchen Campbell and Trey Porto, Co-Chairs of ICAP. In addition, following our tradition for the past two years, we invited those students to join us for lunch whose travel had been supported by IUPAP, which included five in all, from Brazil, China, India and Mexico.

The meeting continued the discussion from the previous year on how Commission 15 might best contribute to the mission of IUPAP to assist in the worldwide development of physics, to foster international cooperation in physics, and to help in the application of physics toward solving problems of concern to humanity. It had been suggested that one approach would be to work with Commission 13 on Physics Development to sponsor Type D Conferences: Workshops in Developing Countries. One model might be the Industrial Physics Forum 2012: Capacity Building for Industrial Physics in Developing and Emerging Economies, sponsored jointly by the American Institute of Physics (AIP) and the International Center for Theoretical Physics (ICTP) in Trieste, and its successor in October 2014 in São Paulo, Brazil. It was to speak about these forums that Philip

Hammer had been invited to join the meeting. The proposal for IUPAP to join with AIP and ICST in sponsoring such a forum was strongly supported, as was the proposal to hold the 2016 Forum in South Africa.

The soliciting and ranking of nominations for the Young Scientist Prize in AMO Physics is highly competitive and taken seriously by all members of the Commission. This year, thanks to our Secretary who ran the competition, we had 32 candidates from 17 countries. The winner was Jacob Taylor from the US National Institute of Standards and Technology “For groundbreaking advances in the design of compact, practical devices that bridge the classical world with the exotic quantum world“. Our celebration of the 2012 Young Scientist Prize winner, Yann Mairesse from the University of Bordeaux “For outstanding contributions to attosecond pulse characterization and the birth of attosecond molecular spectroscopy“ had to be postponed yet another year.

Amy Flatten described the variety of activities in which the American Physical Society interacts with colleagues internationally. Her tips for navigating the current US visa application process may be found at: <http://www.aps.org/programs/international/visa/>

The Commission Members voted to support the following conferences in **2015**

29th International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC XXIX)

Location: Toledo, Spain

Date: 22-28 July 2015

Chair: Roberto Rivarola, Universidad Nacional de Rosario and Instituto de Fisica
Rosario - Rosario, Argentina

Conference Type: A

22nd International Conference on Laser Spectroscopy (ICOLS 2015)

Location: Sentosa Island in Singapore

Date: 28 June – 3 July 2015

Chair: Kai Dieckmann, National University of Singapore

The 2015 Meeting of Commission 15 will take place during the 29th International Conference on Photonic, Electronic and Atomic Collisions in Toledo, Spain.