

C5 Activity Report for the IUPAP Council and Commission Chairs Meeting October 2015

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Brief review of activity

This review covers the period April 2015-October 2015.

One sponsored conference took place:

Type B: International Symposium on Quantum Fluids and Solids 2015 (QFS2015)

Aug 10-15, 2015, Niagara Falls, USA. Chair: F Gasparini, Co-Chair: E. Krotscheck.

The meeting attracted 191 participants from 15 countries. 17 participants were from developing/disadvantaged countries and received travel assistance. 15 of the participants were women, of which 6 gave invited papers. 18% of the international organizing committee were women.

See <http://www.physics.buffalo.edu/QFS2015/qfs2015.html> for details of the full programme, which featured connections with adjacent communities: nanomechanics/optomechanics; cold atoms; superconductivity. The conference was preceded by a meeting on Grand Challenges in Quantum Fluids and Solids, sponsored by NSF (USA), with contributions from several Nobellists. It was followed by the 18th International Conference in Many-Body theory, held at the same site as QFS2015. An additional feature of QFS2015 was a series of eight tutorial lectures targeting students and young investigators: it is anticipated that this will be replicated in future QFS symposia. These activities added considerable value to QFS2015. A report received from the organisers will be uploaded onto the IUPAP C5 web pages. The proceedings will be published as a special issue of Journal of Low Temperature Physics.

Our proposal for a sponsored conference in 2016 (Type B) is the International Symposium on Quantum Fluids and Solids 2016 (QFS2016) Aug 11-15, 2016, Prague Chair: L Skrbek. About 250 participants are anticipated. <http://qfs2016.org/>

IUPAP sponsorship has been requested (submission date 23 March 2015). This request has received unanimous approval from C5.

Our largest international conference, for which Type A will be requested, is 28th International Conference on Low Temperature Physics (LT28), to be held in Gothenburg, 9-16 August 2017. This was selected by C5, at its meeting in August 2014, held at LT27, Buenos Aires. About 1,200 participants anticipated. Chair: P. Delsing, Co-Chairs: M. Fogelström, J Bylander, F Lombardi. As usual this meeting

with be accompanied by a satellite conference for which Type B sponsorship will be sought. International Conference on Ultralow Temperature Physics (ULT2017). August 2017, Heidelberg, Germany. About 200-250 participants. Chair: C. Enss.

Commission C5 met at LT27 in August 2014. Subsequent business has been conducted by e-mail. Work is beginning to identify the organisers/site of LT29 in 2020. By geographical rotation this should be in Asia.

Submitted by
John Saunders, October 2015