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)
The meeting attracted 191 participants from 15 countries. 17 participants were from developing/disadvantaged counties 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.

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