

## C5 Activity Report for the IUPAP Council and Commission Chairs Meeting October 2016

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	Hans Hilgenkamp	Netherlands
	Maxim Kagan	Russian Federation
	Peter Skyba	Slovakia
	Juhn-Jong Lin	Taiwan

### Brief review of activity

This review covers the period October 2015-October 2016.

One sponsored conference took place:

Type B: International Symposium on Quantum Fluids and Solids 2016 (QFS2016)

Aug 10-16, 2016, Prague, Czech Republic. Chair: L Skrbek, Co-Chair: P. Skyba.

The meeting attracted 221 participants from 28 countries. 18% of the international organizing committee, which was 28 strong, were women. 20 of the participants were women, of which 1 gave an invited paper. This reflected the relatively low proportion of female researchers in this community.

The geographical spread of participants was reasonable. The countries having the most participants were Japan (45), UK (26), USA (22), Russia (18), Czech Republic (15), France (13), Finland (12), Ukraine (9), South Korea (9), Israel (7), Slovakia (7), India (6), Germany (6). 69 participants were granted partial or full support, of which 52 attended. This was administered by a small international committee.

See <http://qfs2016.org/> for details of the full programme, which featured connections with adjacent communities: nanomechanics/optomechanics; cold atoms; strongly correlated electron systems/superconductivity. Building on the practice established at QFS2015, the conference was preceded by a set of tutorial lectures targeting students and young investigators. This was attended by 80 young scientists. In addition poster prizes were awarded, with 3 European Physical Society Prizes for the best student posters. The proceedings will be published as a special issue of Journal of Low Temperature Physics, L Skrbek and P Skyba serving as guest editors. Each paper will be refereed by at least two independent reviewers. A full report received from the organisers will be uploaded onto the IUPAP C5 web pages.

This year C5 has two proposals for conference sponsorship.

Our largest international conference, for which Type A sponsorship will be requested, is the 28<sup>th</sup> International Conference on Low Temperature Physics (LT28), to be held in Gothenburg, 9-16 August 2017. This conference is held triennially. The selection was made by C5, at its meeting in August 2014, held at LT27, Buenos Aires. About 1,200 participants are anticipated at LT28. Chair: P. Delsing, Co-Chairs: M. Fogelström, J Bylander, F Lombardi. For more details see <http://www.lt28.se/>

Type B sponsorship is also being sought for a satellite meeting to LT28, ULT2017, Frontiers of Low Temperature Physics. August 17-21 2017, Heidelberg, Germany. About 220-300 participants are anticipated. This conference is intended to bring together a broad community of researchers and to forge links between different experimental communities. Chair: C. Enss. The previous two ULT meetings have attracted IUPAP Type B sponsorship.

The IUPAP Young Scientist Prize will be awarded at LT28. It is anticipated that three prizes will be awarded. A call for nominations has been issued with a deadline of January 5<sup>th</sup>, 2017. C5 will select the prizewinners via e-mail correspondence.

Commission C5 will next meet at LT28 in August 2017. Work began some time ago, through C5, to identify the organisers/site of LT29 in 2020, and a formal call for proposals will be issued with a deadline in April 2017. By geographical rotation LT29 would be in Asia. C5 is aware that a bid is being prepared by colleagues in Japan: Chairs; Naoto Nagaosa (member C5)/Yoshiteru Maeno.

Submitted by  
John Saunders, September 2016