

**Oct. 17, 2018 DRAFT**  
**C10: The Structure and Dynamics of Condensed Matter**

**Activity Report for the 2018 IUPAP C&CC Meeting**  
**November 1-2, 2018**

(Submitted by Laura H Greene, Chair C-10)

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### Activity report:

1. The C 10 YSP 2019 award will be determined by Friday, October 19, 2018. I will report on that at the C&CC meeting. It will be awarded at the 2018 APS March Meeting in Boston and the winner will present an Invited Talk. We had 16 new qualifying nominations and 5 rollovers. All were outstanding.
2. Given the diversity of fields in C 10, the commission members have rarely been able to meet face to face. We have met at the "*Materials and Mechanism of Superconductivity*" conference, which has been a C 10 sponsored conference, but this year we did not have members attending: The meeting is discussed below.
3. Our commission sponsored the "*Materials and Mechanism of Superconductivity*" conference, held 19-24 August 2018 in Beijing (<http://m2s2018.medmeeting.org/>). We have not received the conference report so I worked out some demographics from the web site. There were 13 plenary talks, all men, and primarily from the US. Of the 242 invited speakers, 12 were women, so 5 %. I was in close contact with the organizers and they were working to amend this. I will report any revised numbers to IUPAP. I note that this conference was granted sponsorship before the demographics of % women invited speakers went into affect. Of the invited speakers, 25 courtiers were represented with 70 from China and 67 from the US. I will work closely with any future C10 sponsored IUPAP conferences on demographics.
4. The US National Academy of Science, Engineering, and Medicine will roll out the Decadal Survey of Materials Research by the end of 2019. Greene, the C10 Chair is a co-chair of this Survey and when released, will notify the relevant IUPAP Commissions. <http://sites.nationalacademies.org/DEPS/materials-decadal/index.htm>
5. The US National Science Foundation report: "Midscale Instrumentation for Quantum Materials" ([https://www.nsf.gov/mps/dmr/MIQM\\_report\\_v15.pdf](https://www.nsf.gov/mps/dmr/MIQM_report_v15.pdf)) was just released. Greene was a co-chair.
6. Repeating from the last report, the C10 Commission will discuss a name change. From "Structure and Dynamics of Condensed Matter Physics" to "Quantum Materials." which is closer to what the Commission actually does. Note there are five Commissions that encompass condensed matter physics:
  - C 5: Low Temperature
  - C6: Biological
  - C 8: Semiconductors
  - C 9: Magnetism
  - C 10: Structure and Dynamics of Condensed Matter

We believe such a name change will more accurately reflect C 10 and will not impinge on the other condensed matter commissions. We will keep Council and other Commissions abreast of our discussions and progress.