

**September 23, 2020**

**C10: The Structure and Dynamics of Condensed Matter  
Commission Report for the IUPAP 2020 C&CC meeting**

Submitted by Laura H Greene, Chair C-10

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### C10 Activity report:

1. The C 10 YSP 2020 award was awarded to **Assistant Professor Andrea Young, at the University California, Santa Barbara** "for his contribution on discoveries of correlated electron behavior in graphene in the strong quantum limit." Due to COVID-19, the APS March Meeting was canceled, last-minute, so to present the medal and award, I had a picture taken of me holding Medal and Award. I sent the Medal and Award to Prof. Young, and he had a picture taken of him holding them. Thus, the pictures below represent a virtual handoff. Prof. Young then gave an invited talk for the YSP, and another invited talk on his research at the March Meeting, virtually, at a later time.



Laura Greene at the National MagLab in Tallahassee, virtually presenting Andrea Young at UCSB the IUPAP CSP YSP 2020 Certificate and Medal

2. The C 10 YSP 2021 nominations are just starting. Due to the late start, we will accept nominations until October 31, 2020. We will do our best to have the winner determined by the APS March Meeting, March 15-19, 2021.
3. Given the diversity of fields in C 10, the commission members have rarely been able to meet face to face. We will plan for a videocon in the next few months (Zoom).
4. We have not sponsored a meeting this past year. We are expecting several applications for next year, including MSM21 (Magnetic and Superconducting Materials 2021) which historically benefits emerging countries.
5. I think we are giving up on changing the name of the C10 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

I have had positive and negative feedback and would be happy to receive any more comments on this..