

IAU B1 Newsletter No.2

Feb 4, 2019

Dear colleagues,

As promised, we announce the capacity building workshop **CHALLENGES AND INNOVATIONS IN COMPUTATIONAL ASTROPHYSICS** that will be held in Saint Petersburg, Russian Federation, on Sep 16-21, 2019. As you will note on the workshop web-site (see below), its rationale relies upon the following ideas.

Computational astrophysics is at the forefront of every major advance in modern astronomy, linking together very different aspects of the physical world operating at different scales. A capacity building workshop is long overdue, where participants take an active part in the coordination and furtherance of computational techniques in a wide range of research (stellar evolution, cosmology, accretion phenomena, planetology, etc.). The proposed workshop aims at building up momentum in this community around key computational challenges. We hope that it will bring together experts in each of a broad range of fields, to set the stage for exchanges and collaborations between participants. An invitation is extended to all commission B1 members as well as to interested colleagues. We particularly welcome participation of female and young researchers. A stated goal of the meeting is to promote cross-fertilization for better understanding of techniques applied in each field. By doing so, we hope to ensure the highest level of synergy between these various fields. This will hopefully give rise to new research programs and bolster scientific collaborations. The thematic contours of the meeting will remain flexible, but an emphasis will be put on computational methods applied to speed up and broaden the scope of scientific studies, such as finding trends in observational data, high performance computing, automated search algorithms, and emergent behavior (e.g., Artificial Intelligence methods). The workshop will be held at the Ambassador Hotel, located in Saint Petersburg, Russian Federation, a venue that provides a friendly and collaborative atmosphere.

All the necessary information about registration, fees, booking, visas, conference venue, etc. can be found at the conference web-site:

<http://agora.guru.ru/display.php?conf=comp-astrophys-2019>

Yours sincerely,

Members of the IAU Commission B1 Organizing Committee