Report of Division J, Galaxies & Cosmology

Reporting Period May 2016 – May 2017

• These symposia coordinated by Division J took place during the reporting period:
  o IAUS 321: Formation and evolution of galaxy outskirts (Toledo, Spain, March 2016)
  o IAUS 329: The Lives and Death-Throes of Massive Stars (Auckland, New Zealand, November 2016)

• These future symposia coordinated by Division J have been approved:
  o IAUS 336: Astrophysical Masers: Unlocking the Mysteries of the Universe (Cagliari, Italy, September 2017)
  o IAUS 333: Peering towards Cosmic Dawn (Dubrovnik, Croatia, October 2017)
  o IAUS 341: Challenges in Panchromatic Modelling with Next Generation Facilities (Osaka, Japan, April 2018)
  o IAUS 342: Perseus in Sicily: from black hole to cluster outskirts (Noto, Italy, May 2018)
  o IAUS 343: Why Galaxies Care About AGB Stars: A Continuing Challenge through Cosmic Time (Vienna, Austria, August 2018)
  o IAUS 344: Dwarf Galaxies: From the Deep Universe to the Present (Vienna, Austria, August 2018)
  o IAUS 347: Early Science with ELTs (EASE) (Vienna, Austria, August 2018)

• Fabio Pacucci is the recipient of the 2017 IAU PhD Prize to recognize excellence in astrophysics. Fabio is currently a postdoctoral fellow at Yale University and received his Ph.D. at the University of Pisa (Italy). The IAU PhD Prize recognizes outstanding scientific achievement in astrophysics around the world. Each IAU Division has, once a year, the opportunity to award its own prize to the candidate it feels has carried out the most remarkable work in the previous year.

• Early in 2016, Division J organized a questionnaire targeting division members with the aim to better understand the community perspective on the role of the IAU, and identify how Division J can better reflect the opinions of its membership. The questionnaire regarded both the IAU in general, and Division J in particular; 611 members (roughly 19% of Division J) participated. The report is posted at https://www.iau.org/science/scientific_bodies/divisions/J/info/documents/.

• Division J, in concert with all scientific bodies of the IAU, has a new website, see https://www.iau.org/science/scientific_bodies/divisions/J/info/. The layout of the website follows that of other Divisions. It has been designed by the IAU Secretariat in Paris. Content is provided and updated by the Division J Steering Committee using input from Division members.

• The commission Galaxy Spectral Energy Distributions (SEDs) has created two Working Groups (WGs). Each of these WGs carefully respects the gender parity and care is taken to respect a geographical balance. For both WGs, the deadline is the 2018 IAU GA. This information will be posted on the IAU website along with the WG members.
WG.1 (chair-persons: Carlotta Gruppioni and Michael Brown, co-chairs: Denis Burgarella and Cristina Popescu): the objectives of this WG.1 are to analyze the diversity of observed and modelled SEDs available in an attempt to provide the IAU community with the most concise list necessary to represent the diversity of galaxies (environment, redshift, type, etc.). The list and the associated comments will be the deliverable.

WG.2 (chair-persons: Anja Schroeder and Samir Salim, co-chairs: Denis Burgarella and Cristina Popescu): this WG will provide guidelines for optimal analyses of the galaxy SED information available in the public databases. The members of this WG are database developers and users. A report containing recommendations to improve access to and transparency of the galaxy SED databases will be the deliverable.

• The Steering Committee of Division J, as represented by President Claus Leitherer supported the EC98 (Mexico City) and EC99 (Pune) meetings. The SC evaluated all submitted symposia and focus meeting proposals and provided a ranked list. The SC also made recommendations regarding the structure of future IAU sponsored meetings.