Commission C1: Astronomy Education and Development

Report for the period August 2015 to December 2016

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During 2016 the OC of Commission C1 worked to define the new the goals and future plans of the IAU Commission and the role of professional astronomers to reach the IAU proposed objectives in education for the next few years. In this sense, C.C1 has established new objectives and a new way of working, including new inter-commission working groups and activities. These new bodies are:

1. Inter-Division

Commission B7, involving Divisions B and C, Commission for the Protection of Existing and Potential Observatory Sites

2. Inter-commission Working Groups

B7-C1 - Achieving Sustainable Development within a Quality Lighting FrameworkC4-C1 - Intangible Astronomical HeritageC1-F2-F3-H2 - Education and Training in Astrobiology

These bodies are working to produce new material and tools and to establish better contacts with the public.

On the other hand, a new role was established for the C.C1 as a partner of the Offices for Astronomy Development, for Young Astronomers and of Astronomy Outreach, which improve the future development in scientific research in all sorts of methodological transfers of astrophysical knowledge towards different audiences.

Commission C1 has enlarged the participation of the IAU members in different tasks, and incorporated researchers in the field of education, members of "teacher training schools" and specialists in disabilities, by the creation of new and special working groups. New associate members were included to reach the new goals.

Moreover, we have improved the communication between the members of C1 through our website and a renewed Newsletter, now edited by Larry Marschall (second period) and Kathy Eastwood, inviting new collaborators and asking for special notes and articles of interest.

C.C1 was part of the concrete activity devoted to the design and manufacture of interactive modules for the dissemination of science, especially for the disabled. C.C1 also is working on the design and the development of FabLabs to produce scale models using 3D printers, an action which implies a very clear action towards society.

With regard to transference from events in Education, members of the OC were part of the organizing and / or scientific committees of the following meetings:

1. Workshop on Astronomy beyond the common senses, in cooperation with Working Group 3 of the Commission of Education and Development of the Astronomy and the LOC of the LARIM 2016. This meeting was held on October 8, 2016 in Cartagena of Indias, Colombia (more information at: http: // http: //wai.unal.edu.co/information/)

2. I Seminar on Practical Teaching of Astronomy - NASE (Observation, Models and Archaeology) American Region. This meeting was held in Bogotá, on October 11, 2016, with the attendance of representatives from NASE in Latin America.

3. II Workshop on Education and Dissemination of Astronomy in Esquel, Chubut, Argentina (the first was held in Cordoba in 2009) on the occasion of the annular solar eclipse that occurred on February 26, 2017 and which will be visible from Patagonia. This meeting had the support from the IAU and CONICET. Part of this activity was also related to the production of teaching materials for schools (more information at: http: //sion.frm.utn.edu.ar/WDEAII/). Jay Pasachoff, Xavier Jubier and Charles Fulco gave invited talks, and Fred Espenak (NASA) was part of the activity. More than 2000 participants took part in this event. The eclipse was in 2017, but the organization started in January of 2016.

4. During 2016 the OC of C1 undertook very hard work organizing the Symposium of Astronomy and Astrobiology Education: theory, methods impacts and future directions, which will take place on July 3-8, 2017, in Utrecht, the Netherlands (Chair: B. García, co-chair: Muriel Gargaud. Coordination by Division C Education, Outreach and Heritage and Division H Astrobiology). (More information at: http://ise2a.uu.nl/).

Finally, C1 members collaborated actively with the Division C WG on Star Names. The WGSN has established and is maintaining a new catalogue of IAU star names, with the first set of 227 approved proper names being published on the IAU website. This WG produced one of the IAU-Highlights of the year:

https://www.iau.org/news/pressreleases/detail/iau1603/