

COMMISSION 35

STELLAR CONSTITUTION (*CONSTITUTION DES ETOILES*)

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VICE-PRESIDENT
PAST PRESIDENT
ORGANIZING COMMITTEE

Corinne Charbonnel
Marco Limongi
Franca D'Antona
Gilles Fontaine, Jordi Isern,
John Lattanzio,
Claus Leitherer (Secretary) ,
Jacco Van Loon,
Achim Weiss,
Lev Yungelson

PROCEEDINGS BUSINESS SESSION, 7 August 2009

1. Introduction

A business meeting of the IAU Commission 35 was held during the GA in Rio on Friday, August 7, 2009, with a few members of the Commission in attendance. Special care will be taken to have more members attending the BM at the next GA in Beijing in 2012. The points discussed during the BM are summarized below and are posted on the C35 website <http://iau-c35.stsci.edu>.

2. Presentation of the new Organizing Committee

On behalf of the entire membership, C. Charbonnel thanked F. D'Antona for her important contribution to our Commission as former President and congratulated her for her election as Vice-President of Division IV (Stars). She also expressed the thanks of the Commission to N. Langer, R. Larson, J. Liebert, E. Mueller for their years of service on the OC, and welcomed the new OC members J. Isern, C. Leitherer, M. Limongi, J. Van Loon recently elected by Commission membership. The new Commission President and Vice-President for the term 2009-2012 are C. Charbonnel and M. Limongi. C. Leitherer is appointed Commission Secretary for the next three years.

The OC of Division IV STARS is composed by C. Corbally (President), F. D'Antona (Vice-President), M. Asplund (C36), C. Charbonnel (C35), J.A. Duranuez Docobo (C26), R.O. Gray (C45), N.E. Piskunov (C.29),

3. Comments on the official tasks of the Organizing Committee

The main official tasks of the OC are to (1) provide a triennial report on the activities of the Commission and of its members in the field of "Stellar Constitution", and to (2) review the applications and establish a list of preference for the future IAU Symposia. It should also provide support for the animation of the community as a whole.

3.1. *The triennial report*

The triennial report should cover the organisational activities of the Commission and should highlight scientific accomplishments in the field of stellar structure and evolution. This document is thus especially important in order to demonstrate the vitality of C35 and of the research field it covers. The previous triennial reports can be found on <http://iau-c35.stsci.edu/Reports/>.

The next report will be due by the end of 2011. In order to improve the preparation process

as well as the quality of the outcome, C. Charbonnel would like all the Commission members to send to the OC relevant information. The C35 members will all be contacted regularly (schedule to be decided) and will be asked to send a brief summary of their most important achievements in the past three years. This information will be made public and will be collected by OC members in order to prepare the triennial report.

3.2. *IAU Symposia*

The past triennium - apart for the first year - was a bit frustrating from the point of view of supervision of scientific IAU meetings. In particular, the number of meeting applications for 2010 were few enough that the selection was practically none. In the future we will encourage the C35 members to post more numerous strong proposals for IAU Symposia. This is crucial for the vitality of our scientific community.

4. Role of C35

During the BM, we raised the question of the role of the C35 (apart for the tasks described in § 2), and of the need for other activities and tools to be developed. The discussion focussed on the possible ways of stimulating exchanges among C35 members.

We decided to proceed to an evaluation of the needs, suggestions, and preferences of the C35, by performing a member survey. The main questions to be addressed will be the following: Do you want an electronic forum of discussion with round table about stellar structure problems, and open to the whole community? Should we add more information (what kind?) about the commission members on our website? Would you like to post on the C35 webpage a few lines about your work, together with references, whenever you publish results relevant to C35 (i.e., all along the triennial exercise)? Do you want/need a C35 electronic newsletter including scientific announcements?

The OC will first discuss the way to proceed during the Fall 2009, and a general consultation of all the C35 members will be carried out at the beginning of 2010.

5. C35 name and membership

In order to increase the visibility of our Commission, and to be in better adequation with the science it covers, C.Charbonnel proposes to change the name of C35 presently entitled “Stellar constitution” and suggests rather “Stellar structure and evolution”. This suggestion was informally discussed with the new President of Division IV, C. Corbally, and will be addressed in the forthcoming electronic consultation of the Commission members.

Special care will be taken to look for “missing members” and to encourage both theoreticians/modellers and observers who are active in the field to adhere to C35. Any IAU scientist with research credentials who, for their own valid reasons wish to join our Commission and to contribute to its progress, should be admitted. Gender issues should also be addressed, in particular for the composition of the OC (only one woman out of nine OC members for the term 2009-2012 ...).

6. C35 webpage

The C35 webpage (launched in 2003) is maintained by our Secretary C.Leitherer. Its goal is to support the administrative and scientific needs of our Commission. It contains general information on the C35 structure and activities, membership directory, links to commission reports, conference announcements, bibliography related to stellar constitution, links to stellar structure resources that were made available by owners, links to main astronomical journals, and regularly updated news items. The ressources contain evolutionary tracks and isochrones from various groups, nuclear reactions, equations of state, opacity data, and astronomical tools. It will soon host the scientific results posted by the C35 members as described above.

<http://iau-c35.stsci.edu>

Corinne Charbonnel
President of the Commission