

## **Early Career Scientists Report**

### **Highlights for JSC**

- YESS white paper accepted for publication in [BAMS](#) (outcome of Offenbach ECR Workshop in 2015)
- YESS Office operational at Argentinean National Weather Service
- Request for WCRP support for planned YESS activities including the ECR workshop (please see below)

### **Background**

The [Young Earth System Scientists](#) (YESS) community is an international, interdisciplinary, and bottom-up community. YESS aims to unify early career researchers (ECR) in an influential organization to enhance collaborations and promote both local and global exchange across multiple disciplines related to Earth system sciences. Well-connected with prominent international partner organizations and other ECR networks, YESS gives young researchers a collective voice and leverage, while supporting career development. YESS seeks to fill the gaps between traditional disciplines by incorporating a powerful network of both natural and social scientists to work towards a seamless understanding and prediction of the Earth system and its impacts on society.

### **Achievements and activities within the last year**

- The community has grown extensively across the globe, now counting more than 800 members from over 80 countries.
- The official endorsements of YESS by the WCRP JSC and the WWRP SSC solidified a crucial step for sustained development of YESS. With the generous support of the Argentinean National Weather Service (SMN), a YESS Office is now open at SMN in Buenos Aires, Argentina, and a YESS officer is in position and operational as of March 15, 2017.
- As a result of the WCRP/WWRP/GAW supported [Earth System Science Frontiers Workshop](#) in Offenbach, Germany, in October 2015, YESS published a [white paper](#) in the Bulletin of the American Meteorological Society, outlining the YESS vision of the future of Earth system science, focused on four 'Frontiers': scale interaction, communication, user-needs, and interdisciplinarity. The paper also identifies what is required to tackle these major scientific challenges from an ECR perspective.
- YESS continues to work closely with international programmes for active involvement of ECRs in leading scientific programmes. WCRP invited YESS members to the WCRP Regional Scoping process, and supported YESS members to attend the [IPCC-Future Earth-PROVIA scientific workshop](#) in Stockholm, Sweden, in August 2016. Additionally, two YESS members were selected to represent the [Early Career Researchers Network of Networks](#) at the Future Earth Science and Engagement Committee meeting in Montreal, Canada, in March 2017. A YESS member is now part of the WWRP Newsletter Editorial Board.
- YESS has established a series of Expert Webinars, where senior researchers share their knowledge on various Earth system science topics, and Council Webinars, where

YESS Council members present their research, to promote exchange within the community.

- YESS organized several side events for ECR at international conferences and research institutions around the world. As just one of many examples, YESS members helped to organize the Early Career Scientists Symposium at the CLIVAR Open Science Conference, held in Qingdao, China, in September 2016.

### **Plans for the coming year**

- Based on the success of the [workshop](#) in 2015, YESS is planning a workshop to gather ECR and early career practitioners to have an in-depth scientific discussion about how to obtain and disseminate seamless weather, atmospheric composition, and climate information through an interdisciplinary approach bringing together the main frontiers discussed in the [YESS white paper](#). The workshop will also serve to evaluate what YESS has achieved in the past two years, and to further develop our strategy for the future. The workshop is planned to be aligned with the [Joint IAPSO-IAMAS-IAGA Assembly](#) held in Cape Town, South Africa, in late August / September 2017. YESS is coordinating with JPS to identify necessary resources.
- YESS is establishing a new working group to focus on promoting interdisciplinary science - the core idea behind YESS. It aims to spin up an international interdisciplinary science project.
- YESS is currently preparing the second elections for its Executive Committee and Regional Representatives, which will be held in March/April 2017.
- YESS will continue its outreach efforts to grow and serve the community, including activities at international conferences such as EGU, AGU, IAPSO-IAMAS-IAGA, as well as seeking more opportunities for ECR to become more involved in various WCRP/WWRP/GAW working groups, committees, and panels.

### **Proposed direction of WCRP's connection to YESS**

JSC is invited to advise on ways to ensure WCRP's support and commitment to the YESS community. WCRP's support of YESS has been essential to enable young scientists to develop and strengthen collaborations across regional and scientific borders, towards a unified approach to Earth system science with the intention to serve society.

The following recommendations may be considered:

- JSC encourages the WCRP-wide support for the ECR workshop in this year (please see the respective plan above), and provides advice to the planning;
  - JSC encourages continued and enhanced involvement of early career scientists in WCRP activities, including Core Projects, Grand Challenges, and working groups through, e.g., co-leadership of scientific activities and/or observer status in leadership groups; taking into account of YESS offer for coordination and assistance for ECR involvements.
  - The JSC requests WMO - through WCRP, WWRP and GAW - to consider solidifying resources for the YESS coordination office in Argentina, for both logistical arrangements and for activity support.
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