

## A brief progress report about DAEPO in 2017

After its official announcement in April, during the last months, some achievements have been obtained. In the following, I gave a brief summary.

In May, 2017, Chenzhou Cui introduced the IAU WG DAEPO at International Virtual Observatory Alliance (IVOA) Interoperability Meeting in Shanghai, which was the first time that Chenzhou gave presentation about DAEPO at an international meeting. At the meeting, Chenzhou was elected as the Chair of IVOA Education Interest Group (IVOA EduIG).

In July, Chenzhou and Shanshan Li attended to the first International Symposium on Education in Astronomy and Astrobiology (ISE2A) in Utrecht in Netherlands. They gave two presentations on DAEPO and related activities from Chinese Virtual Observatory (China-VO). Beatriz Garcia, IAU C1 president, was organizer of the symposium. Chenzhou was invited to join the SOC of the 2nd ISE2A that would be held in Spain in 2019.

In October, the ADASS (Astronomy Data Analysis Software & System) and IVOA Fall Interop were held in Santiago, Chile. A bird of a feather (BoF) session on Data-driven and VO-enabled Education and Citizen Science was organized by Chenzhou. In the BoF session, Ms. Janet Evans from the Harvard-Smithsonian Center for Astrophysics, Secretary of the Executive Committee of the IVOA, introduced the virtual observatory and the IVOA. The principal developer of the World Wide Telescope (WWT), Mr. Jonathan Fay from Microsoft Research, gave a talk on the history and latest development of WWT. Dr. Chenzhou Cui presented the work of China-VO in DAEPO with examples of a citizen science project called Popular Supernova Project (PSP) and interactive digital planetarium powered by WWT. Participants shared their experience and discussed how to efficiently leverage the data and VO-tools at hand to design and carry out education activities and citizen science projects. During his visit to Santiago, Chenzhou gave a live video interview hosted by ALMA Facebook on VO-based education. Furthermore, a piece of news on DAEPO was released in Spanish by a local online media.

The screenshot shows a news article on the website elmstrador.com. The article is titled "La red de observatorios que permitió a un niño de 10 años realizar un descubrimiento astronómico" (The network of observatories that allowed a 10-year-old child to make an astronomical discovery). The author is Marco Fajardo, and the date is 26 October 2017. The article features a large image of a telescope dome at night. The text mentions Chenzhou Cui and the ADASS 2017 event. There are also smaller images and video thumbnails on the right side of the article.

## Elmostrador's report on DAEPO

In November, the first South Africa - China Bilateral Workshop on Big Data Astronomy and the AstroInformatics 2017 were held in Cape Town. In Cape Town, 4 DAEPO members met together for the first time, Chenzhou, Shanshan, Kevin Govender and Vanessa McBride, 2 from China-VO, 2 from IAU OAD. Presentations about DAEPO and OAD were given at the two meetings.



Feedbacks from audiences of the above events are very positive. The DAEPO initiative is considered very impressive and promising. The DAEPO has the potential to be an important new direction and new thinking for Astronomy education and public outreach. The WG will be a valuable extension for the existing Astronomy education communities and related IAU scientific bodies. Many WG members have rich experiences and fruitful achievements in data-driven education and public outreach. More advertisements are necessary under the concept and umbrella of DAEPO.

In Cape Town, the 4 DAEPO members discussed our future work plans in detail. First, a formal website for the WG is necessary. Best practices and related links should be 2 important channels. Second, collaborations and resource sharing with existing scientific bodies including EPO bodies, professional astronomers and technical (VO, ADASS, Astroinformatics, etc.) bodies, are very important. We need keep door open for every interested person or group to join us. Several specific collaborating projects between DAEPO and OAD were discussed, including the design and building of a planetarium in central of China with the theme of "Astronomy for the better world", which is the slogan of the IAU OAD. Third, a telecon to provide virtual meeting for DAEPO members is very helpful for the WG. Chenzhou agrees to arrange it in the near future. The fourth, the IAU GA in 2019 will be a good chance for us to have the first DAEPO WG face to face meeting.

On the IAU GA in Vienna, Sze-leung Cheung (SOC co-Chair), president of IAU OAO, will host a Focus Meeting (FM14) with the title "IAU's role on global astronomy outreach, the latest challenges and bridging different communities". All the DAEPO members are encouraged to contribute to the meeting.