

EGU 2021 Solar-Terrestrial Division Meeting

vEGU 2021, Gather online

23 April 2021, 13:30-14:30 online

Minutes prepared by Olga Malandraki

The 2021 EGU Division Meeting for Solar-Terrestrial Sciences was held online on 23 April 2021, 13:30 – 14:30, during the vEGU 2021, Gather online GA. It was chaired by Olga Malandraki (OM). There were approximately 150 attendees at the meeting (mainly researchers associated to ST). The slides presented and this report can be found at <http://www.egu.eu/st/reports/>.

1. Approval of Minutes and Agenda

The minutes of last year's DM and the agenda of this year's meeting were approved.

2. Awards and Medals 2021

OM presented the names of the 2021 awardee/medalists that were given:
Jean Dominique Cassini: The 2021 Jean Dominique Cassini Medal & Honorary Membership was awarded to Janet Luhmann.

Hannes Alfvén: The 2020 Hannes Alfvén ST Division Medal went to Quigang Zong. Active for 2022.

Julius Bartels: The 2021 Julius Bartels ST Division Medal went to Volker Bothmer. Active for 2023.

In 2020 the Outstanding Early Career Science (ECS) Award of the ST Division went to Lauri Holappa.

In 2021 the ST *Arne Richter Award for Outstanding Early Career Scientists* (ECS) went to Mateja Dumbović.

3. Medal Committees

The proposed Hannes Alfvén Medal Committee 2022 was approved during the ST Division Meeting by the meeting participants:

- Iannis Dandouras [CHAIR], Daniel Baker, Julia Thalmann, Stephen Fuselier [OUT], Janet Luhmann [IN]

For more information: <https://www.egu.eu/awards-medals/>

Discussion:

Nominations for next year medalists should be submitted to **awards.medals@egu.eu** (the final deadline for submissions is **15 June, 2021**). The community is urged to come with suggestions of strong candidates!

For details see:

<https://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/>

4. Outstanding Student Poster (OSPP) and PICO Award

OM announced that this activity has re-started as a vOSPP Award. This year all participants were eligible for the Outstanding Student Poster and PICO Awards that:

- are the first and presenting author of the vPICO abstract;
- satisfy one of the following criteria:
 - are either currently a BSc or MSc student or PhD candidate;
 - obtained their degree after 1 January 2021.

5. ST Division Organization and Officers

ST Structure and Principles

OM continues her term after re-election until 2023 as ST Division President. Margit Haberreiter (MH), (former ST Division President) will act as Deputy President of the ST division for 2022.

Additionally, the following Division Officers were appointed at the DM:

- **ST Programme Group Chair:** Olga Malandraki (2022, confirmed until 2023)

The following ST officers were approved during the ST Division Meeting by the meeting participants:

ST Scientific Officers 2022

- *Solar Physics*: Manuela Temmer (2021, confirmed for 2022)
- *Heliosphere*: Olga Malandraki (2021, confirmed for 2022)
- *Magnetosphere*: Yulia Bogdanova (2021, confirmed for 2022)
- *Ionosphere and Thermosphere*: Dalia Buresova (2021, confirmed for 2022)

ST Liaison Officers 2021

- *Publications*: Manuela Temmer (2021, confirmed for 2022)
- *OSPP Coordinator*: Chao Xiong (2021, confirmed for 2022)
- *Early Career Scientist (ECS) Representative*: Theresa Rexer [OUT], Maxime Gardin [IN] (confirmed for 2022)
- *Education and Public Outreach, News, Media, Webmaster*: Luke Barnard (2021, confirmed for 2022)
- *Scientific Affairs, Foreign Affairs, Division Liaison*: Olga Malandraki (confirmed for 2022).

The ST Division officers communicate as needed on issues such the EGU GA program, in particular the call for sessions, call for abstracts and the respective selection of sessions and abstracts for the final program. OM thanked all of them for the active involvement in shaping the programme of the ST division!

6. Early Career Scientist (ECS) ST Activities

OM urged Theresa Rexter (TR) to present the ECS ST Activities during the ST Division Meeting. TR presented the ST ECS team, with Maxime Grandin as the incoming ST ECS Representative. TR highlighted the aim for the ECS team is to increase the relevance and awareness of the activities for ECS Scientists in the Division and create opportunities for networking. To this end, the following activities were organized and carried out:

- Organised a popular short course, 'Meet the Experts – The future of solar terrestrial research', to bring together established researchers and ECS to talk and discuss the future and challenges of our field.
- Organised a lunch meeting for ECS in Vienna (pre-Covid), as the GA is an important meeting place for ECS.

TR presented the teaser slide for the SC2.12 Meet the Experts short course session and the senior scientists invited to give presentations. The short course took place on Friday April 23, 2021 at 10:00 CEST and was very well-attended.

7. ST Education and Public Outreach

OM informed the community about the activity in the ST blog. The team consists of Luke Barnard who has the main responsibility of the blog posts as well as OM as ST Division President, Jamey R. Szalay, Eleanna Avestari and Pietro Zucca.

The current status was presented. The aim is to publish content about the latest science results, including new missions, community matters, and professional development (e.g. effective public engagement tips). Currently the blog attracts around 120 visits per month. The 2020 post frequency was less than planned (monthly) due to COVID related pressures.

Highlights of posts are the following:

1) Latest science results and missions: Solar Orbiter

'First year of Energetic Particle Measurements with EPD aboard Solar Orbiter' by Prof. Javier Rodriguez-Pacheco. This is the first post on the new science from the Solar Orbiter mission which we plan to highlight over 2021-2022. This first post on these results recently published was aimed to help highlight the vEGU21 session ST1.3 which is themed on Solar Orbiter.

2) Latest science results and missions: Parker Solar Probe

'So... Who Cares about Switchbacks', by Prof. Nathan Schwadron. Similarly, Parker Solar Probe is returning lots of new results which will also be highlighted over 2021-2022. A post on these was also recently published to help highlight the vEGU21 session ST1.4 which is themed on Parker Solar Probe.

3) Community matters and Professional Development

Martin Archer (EGU public engagement grant winner) provided content on the results of his EGU funded project, as well as on effective public engagement best practice.

The plan for 2021-2022 which will continue to lead to a radical improvement of the ST division blog, approved during the ST Division Meeting aims to:

- Maintain an average post frequency of 1 per month, 1000-1500 words.

- Focus on topical ST science, but also provide space for community issues and professional development.

- ***Further improve the diversity of blog authors, to better represent our wide community.***

Main emphasis is placed on this last point in order to ensure a participation and contribution by the whole community so that the blog constitutes a forum of updated scientific communication and frontier research information to the ST community.

To do this, content has been directly solicited and the blog replenished in a very creative way. The status of the contents and the solicited entities was presented. Early Career Researchers have provided contents as well as new results from citizen scientists have been presented. Furthermore, recent missions and projects have been highlighted.

8. ANGIO Update

Christian Jacobi, Editor-in-Chief presented an update of Annales Geophysicae. The Annales Geophysicae Editorial Board was presented with the newly invited editors in bold.

A good number of dedicated special issues were organized and the titles and guest editors were presented.

A decreased number of submitted papers has been observed in 2020 compared to 2019 and previous years, i.e. 96 submitted papers in 2020 compared to 160 submitted in 2019. Possible reasons were presented such as the situation with Covid-19, the reduced number of Special Issues, the change to a **2-stage** procedure of the journal in January 2018. Furthermore, there has been a move to open access system and increasing ACPs. It was noted that competitors publish for free (e.g. Journal of Atmospheric and Solar-Terrestrial Physics, Advances Space Research, Solar Physics etc). Other growing scientific fields (e.g. planets...) may also account for this decrease. Measures for mitigation of this problem will be considered.

9. 2021 GA/ST Scientific Programme

OM elaborated on the new format of the GA with all scientific sessions at vEGU21 run in the new virtual PICO (vPICO) format, which is modelled after the popular interactive touchscreen presentations used at in-person EGU General Assemblies. Each 1.5-hour-long vPICO session will features

approximately 20 abstracts and is divided in two parts: an overview and chats. Details of the two parts were provided. Overall statistics of the vEGU21 General Assembly as well as the ST Division are shown in the ST DM presentation (see meeting slides). In summary the number of abstracts decrease by 24% compared to 2020. As of 17 April, 2021 13,982 registrations have taken place with participants from 126 countries. 3,575 registration fee waivers were granted following the specific criteria presented. The distribution of Abstracts per Programme Group is also presented with ST numbers remaining at comparable high levels to previous years. OM presented and commented on the 'Early Career Scientist Events at vEGU21' which included 56 short courses with 34 short courses having an ECS head-convenor. Furthermore, 21 Networking events led by and aimed at ECS were organized as well as 3 Great Debated led by ECS. Jobs and Career Center initiatives were presented as well as the relevant Outreach activities, introducing ECS Representatives via the EGU dedicated blog. Details of the 'come and meet experts' working at the interface of science policy at a #vEGU21 networking session were presented. Short courses on how scientists can effectively engage with policy were organized during #vEGU21. Equality, Diversity and Inclusion (EDI) Events at vEGU21 were highlighted throughout the programme and the following criteria fulfilled for session conveners to attain the EDI logo were presented: 1) Include conveners from multiple countries and institutes, 2) Have conveners from different career stages, including at least one ECS, 3) Include conveners that represent more than one form of gender identity. Other networking and outreach activities were presented such as the EGU Public Lecture organized by the Austrian Academy of Sciences, EGU Mentoring with 130 mentees successfully paired with 83 mentors as well as the teaching/scientist pairing scheme pilot project. The #vEGU21 Media activities were highlighted as well as EGU Today the EGU daily newsletter at the general Assembly and where to access it and subscribe to the forthcoming issues.

10. EGU 2022 and the Future

OM highlighted that the deadline for ST Medal/Award nominations is 15 June 2021. The evaluation is based purely on scientific excellence and the community is particularly invited to nominate female researchers for the Hannes Alfvén Medal and the Outstanding Early Career Scientist Awards.

The EGU General Assembly 2022 is scheduled to take place from 3-8 April 2022, hopefully in an in-person format.

OM urged the ST community to enjoy the vEGU21 experience!!