

Division reports

News brought to you from three EGU divisions

In each edition of GeoQ division presidents or deputy presidents contribute reports that update EGU members with news from their divisions. Issue 12 gives voice to Charlotte Krawczyk (Seismology), Norma B. Crosby (Solar–Terrestrial Sciences) and Susanne Buiter (Tectonics and Structural Geology).

Seismology

The ongoing work of the EGU Seismology (SM) Division is guided by the idea that a broadening of our research topics and an opening to wider, interdisciplinary collaborations within the EGU will foster the scientific exchange and will address the growing need for the combination of basic science and applied topics. Here, seismology as a discipline is significant since it contributes to a large variety of both basic and applied thematic fields and urgent questions. SM, therefore, wants to strengthen its value by enhancing the development from static to dynamic models, from acquisition parameters to petrophysical properties, and from geomodels to geotechnical applications. Thereby, our ability to make relevant predictions for the future is also growing.

This concern shaped the SM programme at the EGU 2014 General Assembly and also continues its way in the [call for abstracts](#) for the 2015 meeting. Here, we give particular emphasis to the programme sub-group ‘Geophysical imaging of the Earth’s interior across scales’ that is immediately linked to next year’s General Assembly theme, A Voyage Through Scales. Approximately half of all sessions proposed in the SM group are co-organised sessions. They connect not only to tectonics, geodynamics or natural hazards (the nearest solid Earth divisions), but also interact with geophysical instrumentation, hydrology, geomorphology, cryosphere or soil system sciences.

Highlights at the 2014 General Assembly included the Beno Gutenberg Medal Lecture by [Gregory Beroza](#) and the poster sessions that demonstrated the activity of the SM group and its need for discussion in addition to oral presentations. Three outstanding student posters (OSP) were identified this year that will be awarded during the Division Meeting next year. [Many thanks](#) to Valentí Sallarés (Barcelona) for organising the OSP awards during the last two years, and welcome to Laura Peruzza (Trieste) who is volunteering for this from now on.

Our division communication was greatly enhanced by the set-up of two web-based platforms driven by the SM Young Scientist Representative Matthew Agius (Malta): a [seismoblog](#) and a [Facebook page](#) are waiting for your clicks, messages, and input.

The community itself drives the division forward. Therefore, please don’t forget to leave a time slot free in your 2015 General Assembly schedule for the Division Meeting, which will be held during the lunch break immediately preceding the Beno Gutenberg Medal



Screenshot of the [EGU Seismology Division Facebook page](#).

Lecture. Since I will step down after four years of activity, the Division Meeting 2015 will also be the opportunity to welcome our new division president that we will [elect](#) this fall.

Charlotte Krawczyk
SM Division President

Solar–Terrestrial Sciences

At the 2014 General Assembly, the Solar–Terrestrial Sciences (ST) Division programme was comprised of six sub-groups (Sun and Heliosphere; Magnetosphere; Ionosphere and Thermosphere; Theory, Simulations, Solar System Plasma Physics; Space Weather and Space Climate; Society, Education and Public Outreach). Like every year, there were new sessions as well as the traditional ST sessions. Overall, oral sessions were well attended, and poster sessions were very successful and well appreciated by the participants.

At ST division level Rumi Nakamura was awarded the 2014 Julius Bartels Medal for her outstanding contributions to the understanding of the complex plasma physical processes within the magnetosphere and the magnetotail of the Earth through all phases of the substorm cycle. The 2014 Hannes Alfvén Medal was awarded to Karl Schindler for his illuminating contributions to the dynamics of the solar corona, the magnetosphere and astrophysical plasmas through elegant theoretical analyses of fundamental plasma phenomena such as equilibria, stability, current sheets and reconnection. Recently, the [2015 awards and medals were announced](#); they will be awarded at the upcoming 2015 General Assembly.

Noé Lugaz was awarded at Union level, receiving the 2014 Arne Richter Award for Outstanding Young Scientists for his innovative contributions to the understanding of coronal mass ejections. Furthermore, the 2014 Jean Dominique Cassini Medal & Honorary

Membership was awarded to Stamatios M. Krimigis for his key discoveries and his seminal contributions in solar, interplanetary, magnetospheric and planetary physics. The award was also bestowed in recognition of his leadership in the design and implementation of new experiments and new space science missions and his pivotal role in space science policy.

At the EGU 2014 General Assembly, the ST Division Meeting was attended by more than 100 people. The new EGU By-Laws were highlighted and Olga Malandraki was approved for the role of 2015 ST Deputy President by the meeting participants. Furthermore, ST officers and ST Division Medal Committees for 2015 were also approved. The Union Assembly Outstanding Student Poster (OSP) Award 2013 for ST was awarded to Beate Krøvel Humberstet for the poster entitled 'Untangling the space-time ambiguity of pulsating aurora', and Beate was approved by the meeting participants to be the Division's first Young Scientist Representative. Mike Pinnock gave a presentation on the ST journal *Annales Geophysicae* ([ANGEO](#)); the community is encouraged to submit their work to this open access journal. The updated [ST Education and Public Outreach \(EPO\) webpage](#) was presented by Athanasios Papaioannou and includes EPO sub-webpages covering websites, books, and videos; inputs from the community are very welcome.

Next year will see a new ST President and therefore I would like to end this short report by thanking both the ST Scientific Officers, as well as the ST Liaison Officers, who have contributed enthusiastically to the ST Division during these last four years. Finally, I would like to thank all the participants that have attended ST sessions and contributed to their success: without *you* there would be no unique EGU meeting.

Norma B. Crosby
ST Division President

Tectonics and Structural Geology

The activities of the Division of Tectonics and Structural Geology (TS) focus on rock deformation at all scales, from microstructures to plate tectonics, and from extension, via oblique deformation, to shortening. The division therefore covers a wide range of topics and we can only achieve our goal of understanding Earth dynamics through close collaboration with many disciplines. I am very pleased to see our interdisciplinary character reflected in our [session programme](#) for the 2015 General Assembly! Next year, our programme will have several PICO sessions, we are organising workshops for the first time, and we have many new topics – do check out our programme!

Over the last year, we have established closer links with our sister organisation, the Structural Geology and Tectonics Division of the Geological Society of America (GSA), through co-organised sessions at our respective meetings. We will follow this up also in 2015, starting with the session 'Mountains across the oceans: Caledonian, Variscan and Appalachian orogenies through time', which will appear at EGU2015 and GSA2015.



Annales Geophysicae and *Solid Earth* are the EGU open access journals most closely associated with the ST and TS divisions, respectively.

Since early this year, Charlotte Fillon is our Division Young Scientist (YS) Representative. Young scientists have their own forum and [webpages](#) and are not only represented at the division level, but also in the EGU Programme Committee. For TS, we had a first YS meeting at the 2014 GA and we are planning to follow up with YS short courses and hopefully a reception at the 2015 GA.

Our division medal, the 2015 Stephan Mueller Medal, will be awarded to Evgueni Burov. He will hold a medal lecture at the General Assembly 2015 and I hope you will all join in celebrating this prestigious award! After an evaluation of over 110 posters, the TS Outstanding Student Poster Award for 2014 was awarded to Adina Pusok. A big thank you to all judges, it is only because of your volunteer work that so many student posters can be evaluated!

Further division news is that the Emile Argand Conference on Alpine Geological Studies will be held in Briançon in the French Alps from 13–20 September 2015. The 3rd EGU Summer School on Structural Analysis of Crystalline Rock is planned for August 2015. Keep an eye on our [website](#) and the [meeting calendar](#) to find Tectonics and Structural Geology meetings of interest.

Finally, I would like to draw your attention to the EGU open access journal *Solid Earth* which received its second impact factor of a good 2.155. *Solid Earth* is dedicated to multidisciplinary research on the composition, structure and dynamics of the Earth from the surface to the deep interior at all spatial and temporal scales. This is a perfect fit for research related to our division and I would encourage everyone to consider submitting the results of their latest research to the journal.

Information about TS and its activities can be found on our [webpage](#) and now also on [Facebook](#). Follow us for division news!

Susanne Buiter
TS Division President