

U03-01

Room:IC

Time:May 27 14:15-14:20

Expecting further development of PEPS

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In April 2014, JpGU has successfully launched Progress in Earth and Planetary Science (PEPS) as a new open access E-journal, covering all scientific fields of JpGU. It is our hope that scientific outcomes on Earth and Planetary Science will be widely exposed to international community.

Keywords: open access, e-journal, PEPS

Open science and evolving scholarly communication tools

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Science 2.0 transformed and diversified scholarly communication and tools used in the research and publication process, including preprint servers, open peer review, open data repository, socialization of science, and network-based innovation. Research papers and their citations are no longer the only way to measure research impact at the dawn of altmetrics, which quantify online attentions to scientific research and research products in any form. As governments mandate open research policy, the scientific community faces an urgent need for scientific communication infrastructure, where scientists themselves become entrepreneurs while other professions such as information professionals and publishers are finding ways to add value in the new paradigm.

Keywords: open science, history of science, science 2.0, altmetrics

U03-03

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Science Infrastructures and Services based on Open Data

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In this presentation, data-centric approach for science activity is overviewed. Many research results are being published as a form of online open data and many services are being provided to support the science activity especially based on the cloud.

Keywords: Open Data, Open Science, Science Service, doi, Linked Data, Cloud computing

”Earth, Planets and Space”: Transition into Open Access publication

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Earth, Planets and Space (EPS) is an academic journal published by the following five societies; The Society of Geomagnetism and Earth, Planetary and Space Sciences, The Seismological Society of Japan, The Volcanological Society of Japan, The Geode- tic Society of Japan, and The Japanese Society for Planetary Sciences. The publication of *EPS* started in 1998 as continuations of *Journal of Geomagnetism and Geoelectricity* and *Journal of Physics of the Earth*. *EPS* is accepting scientific articles in the earth and planetary sciences covered by the five societies, in particular, geomagnetism, aeronomy, space science, seismology, volcanology, geodesy, and planetology. The 5-year publication project proposal on *EPS* to Grant-in-Aid for Publication of Scientific Research Results was accepted and open access publication has started from January 2014.

Visibility of the journal has been increased by the varieties of promotional activities and web pages of the publisher and the societies. The number of submissions to the journal in 2014 was 297, which was 50% more than that in 2013. Average time to acceptance in 2014 was 188 days and the Impact Factor of the year 2013 reached 3.06. We promote *Letter* category, which has a number of word limit as 11,000, by lowering the article processing charge (APC). We have set up a category *Frontier Letter* to promote submissions of high quality short papers by inviting authors, recommended by the five societies and the editorial board members. The APC for the *Frontier Letter* is free. We also promote special issues and 10 special issues have already been in progress. The special issues cover overlapping field of sciences of the five societies and the scope of the journal is also expanding.

We plan to have a collaborative publication with JPGU from January 2016. In our oral presentation, we also discuss about our future perspectives.

Keywords: Earth, Planets and Space, open access, Grant-in-Aid for Publication of Scientific Research Results, business model transition, academic publisher, scholarly communication

Review of editorial work for PEPS for 2014-2015 and new strategy for 2015-2017

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Progress in Earth and Planetary Science (PEPS) is a peer-reviewed, open-access electric journal published by the Japan Geoscience Union in partnership with Springer. It was launched in October 2013. Our first paper was published in April 2014 and by the end of the year we had published 25 scientific articles, four of which were marked by Springer as highly-accessed articles. We think that PEPS is developing smoothly and that, thanks to everybody's hard work, we will succeed in our goal of making PEPS one of the leading journals in the field of earth and planetary science.

Last year, we established a new category, SPecial call for Excellent Papers on hot topicS (SPEPS) to promote the submission of high-quality review and research articles. SPEPS is similar to a special issue/publication or a thematic section in other journals, but differs from the latter in that contributors of SPEPS are not limited to those invited by its guest editors but the PEPS editorial team call for more papers from all over the world. An accepted manuscript will be published soon; it will never wait for acceptance of other manuscripts which will be included in the same SPEPS. We started presenting a Japanese summary of published articles, called "Japanese Highlights". This attracts favorable comments from many JpGU members.

New strategy for 2015-2017 is in preparation and will be introduced in the JpGU meeting 2015.

Keywords: Progress in Earth and Planetary Science (PEPS), SPecial call for Excellent Papers on hot topicS (SPEPS), Japanese summary

Steering and Planning plan for future PEPS publication

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”Progress in Earth and Planetary Science” (PEPS) is an Open Access e-journal published by the Japan Geoscience Union (JpGU) on the SpringerOpen platform. It started on April 22nd, 2014, just before the annual meeting of JpGU last year. Open access is primarily designed for scholarly journal articles to maximize the research impact. Most of the scientific activities in the research field of earth and planetary science is financially supported by the taxpayers through governmental scientific grants. Therefore its fruitful results should be open to the people. Currently PEPS provides a special discount rate for the scientists, especially the members of JpGU and the authors for review articles. With regard to PEPS, we have aimed to promote review articles, which will provide their selected topic in a way that may be understood by specialists from different research fields and thereby promote interdisciplinary research. Currently more than one quarter of the PEPS articles are review papers, which indicates that there is more demand for the article than we expected. After a few years, we would like to re-organize these articles, which can be used in university seminars aimed at educating students, junior researchers and specialists from other fields. Also our purpose of the journal is to strengthen international communication in the field of earth and planetary science. Therefore we continue to make an effort to publish high quality general research papers and review articles and to provide a great impact to people who read PEPS and who make good presentations at the JpGU Annual Meeting, describing original idea, new research results or unifying concepts in the diversified areas of earth and planetary science. We provide special website (<http://progearthplanetsci.org/highlights.j.html> or <http://progearthplanetsci.org/highlights.html>) for young students to access concise abstract of new articles published in PEPS in English and Japanese. We hope to publish the more than 70 articles in 2015.

Keywords: PEPS, review articles, impact, Open Access e-journal, strengthen international communication