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Expecting great development of PEPS

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JpGU is going launch "Progress in Earth and Planetary Science; PEPS" as a new open access E-journal, covering all scientific fields of JpGU.

Keywords: open access, e-journal, PEPS

Open Access Issues in Physics Journals

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I introduce some of Open Access activities in Physics journals.

1. arXiv, INSPIRE, SCOAP3

Open Access activities in Physics area have a long history and culture. The standard of judgement of physics papers is based on whether they give new knowledges or informations on human or not. We developed open access databases like arXiv and INSPIRE in 1991 at the beginning of WWW technology. High energy physics (HEP) has been a front runner of open data and open articles. SCOAP3 is a challenging program to serve OA services for top existing HEP journals not only to readers but also to the authors; most of the authors are poor theoretical physicists. Redirection of budget flow from subscription to SCOAP3 scheme is proposed. SCOAP3 started and challenge to establish a long term sustainable model.

2. Public Access activities

Physics communities have delivered charge-free access to the journal database of societies via public libraries and high school libraries since early 90's. All physics papers are open to the people in US when they visit these libraries. Researchers and teachers of developing countries have a charge-free-access to the physics papers through International Center of Theoretical Physics (ICTP). Most of physical societies and publishing companies join the ICTP OA library. ICTP developed a lot of research support and educational programs under a support of UNESCO.

3. Charge-free Reading vs Charge-free Publishing

There are intense discussions on Gold-OA, which means charge-free reading journal. In 1997, the first Gold-OA journals such as Optics Express (OSA) and New Journal of Physics (IOP) were published. In 2003, Optics Express reached breakeven point. Today OSA published more than 50% articles in Gold-OA journals with top IF in Optics. These Gold-OA journals demonstrated a sustainable model which satisfies high quality, article volume, and financial condition, altogether. Such a success was achieved by extraordinary efforts of editors group toward the new generation academic journals by online publishing techniques. APS developed Gold-OA Physical Review X for the real top journal under a different scope and vision. We understand Gold-OA is not a single issue, there are many variations in their scope and functions.

APS journals (Physical Review A-E, Physical Review Letters, etc) published more than 60% articles in Physics with high quality. The publication cost in APS journals is relatively low because authors send their manuscripts in REVTeX format. APS returned the benefit of electronic publication to the authors. The author-fee for Physical Review is zero when they send the manuscript in a manner of electronically acceptable format. The increase of subscriptions from Chinese institutions by WTO scheme contributed to their financial balance significantly.

How to share the scientific information with a reasonable cost, this is a main topics of OA movement today. However, we have to remind that the final target of information sharing is stimulation and activation of scientific activities. Physics communities have paid significant attention to the benefit of authors and readers in equal weight.

4. Try and Error, this is our principle.

Physics communities have made big efforts to improve the publication and access to the scientific informations last 20 years. Fortunately, Gold-OA journals in physics keep high quality by the effort of top societies like APS, IOP and OSA. The financial gain of Gold-OA is directly connected to the acceptance volume. This is an internal mechanism of Gold-OA. We need additional feedback mechanism to keep the scientific quality independently to the rejection rate. We have no rigid model for OA publishing and economical sustainability even now. It depends on the real situation of research and educational condition. Every academic community and every country have to develop their own model according to their requirement, scope and decision.

Keywords: Open Access Journals, IUPAP WG, Gold OA, Public Access, Subscription Model, Author fee

Open Access to Academic and Scholarly Information and Scientific Data

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Scholarly and scientific information is the infrastructure of science and humanity in a broad sense. The first successful academic journal, Philosophical Transactions, in 17 century have resulted in open and sharing of academic literature or information. In modern Science and Technology research, information which cannot be expressed in a written journal paper, including numerical data, 3-dimensional geospatial information, voice and sounds, and movies. are increasingly being recognized important in international community. Considering that Open Access (OA) of academic journals is to support further advancement of science and technology in coordination with transition from printing culture to electronic media, scientific research data which can be open should be subject to the scientific information infrastructure. International data management activity like ICSU-WDS from the academic side, and RDA related to governmental arrangement are part of such big challenges of the international community. Data citation, using DOI as a persistent identifier attached to a data set, is promoted by international organizations such as WDS, RDA, DataCite, ICSTI, Force11, etc., jointly with science publishers such as Thomson Reuter, Elsevier, Wiley, and so on.

Keywords: Open Data, Scientific Data, ICSU-WDS, RDA, G8

Toward the Founding of a Scholarly Publishing Consortium: UniBio Press Activities

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This is a report on UniBio Press activities toward the founding of a scholarly publishing consortium as suggested by the Science Council of Japan Special Committee on Scholarly Publishing in August of 2012.

UniBio Press has, in collaboration with 8 other academic societies, adopted Strengthening International Dissemination of Information (A), and has spent this last year actively pursuing the creation of arenas for information sharing among, not only the participant academic societies, but for the whole of academic societies across Japan.

Keywords: the Science Council of Japan, Scholarly Publishing, Consortium, UniBio Press

Renovation and future perspective of journal "Earth, Planets and Space"

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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 Geodetic Society of Japan, and The Japanese Society for Planetary Sciences. The publication of EPS started in 1998 as continuations of the *Journal of Geomagnetism and Geoelectricity* and the *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 Jan. 2014. EPS is going to strengthen its international scholarly communication prioritizing letters, and will start publishing in cooperation with Japan Geosciences Union from Jan. 2016. Renovations of EPS including change of publishers and business model transition into open access carried out in FY2013 and the future perspectives will be presented.

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

Editorial policy and goal of Progress in Earth and Planetary Science

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We at the Japan Geoscience Union (JpGU) launched a new open access e-journal called Progress in Earth and Planetary Science (PEPS) in October 2013. As its name suggests, the purpose of this journal is to publish papers that present new discoveries, ideas and unifying concepts in the various fields of earth and planetary sciences (space and planetary sciences, atmospheric and hydrospheric sciences, human geosciences, solid earth sciences, and biogeosciences). In addition to normal research papers and review articles we would also like to publish material based on the best presentations given at the JpGU Annual meetings, and we have asked and will ask session conveners from the meetings to recommend those presentations that they consider to be the most scientifically interesting.

Because PEPS is an open access journal, the following benefits can be provided to authors:

- All articles published by PEPS are made freely and permanently accessible online immediately upon publication, without subscription charges or registration barriers.
- Authors of articles published in PEPS are the copyright holders of their articles and have granted to any third party, in advance and in perpetuity, the right to use, reproduce or disseminate the article.

The authors will benefit from the e-journal as follows:

- No restrictions or limitations for pages, figures, tables, or additional files to enrich the content, including videos, animations, and large original data files.
- No cost for color figures/pictures.
- Fast publication?generally papers/articles can be published 3?4 months earlier in e-journals than in standard print publications.

By taking these advantages, we intend to make PEPS a top-level international journal, and therefore all submitted papers (including invited papers) will go through a full peer review process. In order to publish high level research papers and review articles, we have organized a strong editorial board composed exclusively of active scientists and asked them to ensure that the refereeing process is strict as well as fair.

The PEPS editorial team works and will work hard for PEPS. However success of this journal relies primarily on whether JpGU members submit many high quality manuscripts or not. We earnestly wait for your submission to PEPS.

Keywords: Progress in Earth and Planetary Science, Editorial policy, Open access, E-journal

Publication of Progress in Earth and Planetary Science by JpGU

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JpGU started Open Access e-journal of Progress in Earth and Planetary Science (PEPS). The purpose of this new journal is to strengthen international communication in the field of geo- and planetary-science, and in particular: 1) To establish a geoscience open access leading e-journal; 2) To publish the best presentations from the JpGU Annual Meeting and the high quality of articles from authors based anywhere in the world, both those concerning specific areas of research and general unifying concepts and 3) To work on this together with the JpGU member societies. Efforts for the Promotion of PEPS are 1) to receive the list of the best presentation recommended by the session conveners at the JpGU annual meeting for PEPS submission and 2) to provide travel support and submission fee to submit a review (overview)/high quality articles. We will have the JpGU Journal special international session as part of the JpGU Meeting 2014, the JpGU Journal special symposium (relevant to JpGU research activity), invitation of big scientists recommended by each Science Section in JpGU, and enhancement of communication of the latest information on current research activity (e.g., published) among JpGU members and others. We are developing new application software that will be used at JpGU annual meeting place and at home. Also special effort is required to make PEPS recognized as a leading international journal by many scientists abroad. We will put an advertisement in AGU, EGU, AOGS and others. Our policy for JpGU journal is to publish high quality of articles in order to contribute to geoscience community globally. We present the latest information about JpGU journal and discuss its future development in this session.

Keywords: JpGU, open access e-journal, PEPS, earth planetary science, Participating society, JSPS