Report on the science café sponsored by the Kanto Branch, Geological Society of Japan

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Since "science café" was introduced in 2004, many science cafés have been held and settled as Japanese style science café in various areas in Japan (Watanabe et al. 2012). At first, the science café with theme of earth science was very few, however, in recent years has increased. There are some differences between the science café and lecture, such as the science café are designed to emphasizes bi-directional communication and enlightening subject matters, so as to activate communications among the guests (scientists), facilitator and audience (general public). Therefore, the science café has been used as the event to relate a rudimentary knowledge in the leading edge of science and opportunities of learning and interaction for scientists and general public.

We held a science café with theme of volcanic disaster in Kanto area, at Tokyo in October 2015, and that event was sponsored by the Kanto Branch, Geological Society of Japan and supported by National Museum of Nature and Science, Science Communicator Association. In this presentation, we will report about the event and results.

Keywords: Science café, Earth science, Outreach
Home lecture "Let's walk through the On'nenikuru forest" implementation report

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Geo Tour was conducted Notsuke peninsula of the Hokkaido east Nemuro Strait coast with the theme of the topography and the geology in autumn in 2015. I gathered in the entrance of the Notsuke Peninsula nature center by beautiful weather at 10:00 a.m. from morning on the tour day on October 18. I carried out the geo-tour in order of 1.Structure of the gravel beach forming Notsuke Peninsula,2.Temporal wash over deposits,3.Remains and the topography, geology,4.The outcrop which was exposed in the roadside,5.Optional tour.

This publication will report the implementation report "Let’s walk through the On’nenikuru forest" hosted by Notsuke Peninsula Nature Center.

Keywords: Notsuke Penninsula, On'nenikuru forest, recurved sand spit, Betsukai-cho
Half-Century of the Natural Science Museum of The University of Tokyo at Komaba

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There was a virtual museum in the College of Arts and Sciences, The University of Tokyo at Komaba, named Natural Science Museum, which started 1953 and united to Komaba museum in 2003. The museum had been operated by university staffs of biology, geology, geometry and graphics. This report will be concentrated to geological activity of the museum.

Japan’s economic growth after the World War II depend on the mining industry of metal and coal development until 1960's, which is linked to the necessity of hands-on specimen study in earth science education. Early professors had experiences of working at mining company, not only at Japan mainland, but also at Korea, Taiwan, and Southeast Asia countries. These seems to be a reason why the "museum" needed for introductory earth science education.

The museum activity connected with student circle activity, including excursion at mining company(e.g. Chichibu Mine, for a week) with professor and assistant professor geologists of General education, and also connected with excursions directed and lead by University staffs of earth science, open 3-4 times every year at various geological spot over the country.

There are few mining company working in Japan now, and hands-on education has a difficulty to realize its importance in natural science education, however, It seems there are some hint in the past activities of the natural science museum at Komaba, to realize the importance of traditional geology to study natural system of earth activity and also on environmental sciences.

Keywords: museum, university, natural science, komaba
Outreach activity of International Ocean Discovery Program (IODP)

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International Ocean Discovery Program (IODP) is an international marine research collaboration joined by 26 nations. Implement organizations of IODP conduct Education and Outreach activities for various stakeholders such as scientists, media, general public, younger generation, educator, etc. IODP education and outreach activities makes these targets to understand IODP and scientific results. Also, IODP scientific result should be updated for various target as common knowledge of our society. I would like to introduce our activity for each example and discuss about need for science and education fields.

Keywords: IODP, Chikyu
Outreach of glacier disaster in Aisan high mountains

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Small glacier lakes are distributed throughout the mountain ranges in Ladakh region in northwestern India and Tien Shan of Central Asia. These areas have occasionally experienced glacier lake outburst floods (GLOFs), causing damages to the settlements along rivers. With an objective of reducing the scale of damage by GLOFs, our GLOF disaster mitigation group held a glacier lake workshop in Domkhar village (30 May 2012), Stock village (Sep 2014), Gya village (Jul 2015) in Ladakh, and Jery-Ui village (Aug 2015) in Tien Shan, for targeting local residents. In the workshop, which helped to understand the current status of knowledge about flood disasters shared among local residents.

Keywords: glacier disaster workshop, Ladakh Range, Tien Shan
Study tour program in Fukushima Hamadori area, based on “geo” and “energy” perspectives

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Since we went through a lot of things from the severe disaster by the earthquakes, tsunami and irreparable injury of the Fukushima Daiichi nuclear accident in the east Japan disaster in May and April 2011, these experiences and knowledge should be passed down to future generation. However, related news in mass media and chance to know about the disaster in the field have decreased. We are planning a study tour program for the following reason, which focus on “geo (geoscience and geography)” and “energy” in Hamadori area (coast area of Fukushima, specially affected region by the nuclear accident).

1. 2011 events are highly important phenomena which have many things to learn in earth science.
2. Public awareness regarding the domestic coal field in Joban area and its impact are very little.
3. Civilization cannot continue without electricity, but we are ignorance and indifferent to source of electric energy. There are various types of power generation method in Hamadori area.
4. The sense of geological timescale is required to manage the radiation contamination and large quantities of radioactive wastes.
5. Joining the subject between “geo” and “energy” is suitable and reasonable.

Our latest itinerary is as follows:
Industrial heritage in the Joban Coal Field - coal-fired power station - small hydroelectric generation by Energy Service Company (ESCO) - Shionohira fault (surface earthquake fault in the Fukushima Hamadori earthquake) - temporary housing in Iwaki City - coastal topography and tsunami disaster - reconstruction and restricted areas - related facility of offshore wind farm - a mega solar power plant.

In JpGU presentation, we will introduce the outline of the tour and the reaction of participants.

Keywords: 2011 East Japan Earthquake and Tsunami Disaster, nuclear disaster, citizen awareness, field excursion, geological resources, renewable energy
Holding of "Geo-Festival in Sapporo" and Utilization to graduation research of the student

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In Hokkaido, "Geo-Festival" has been held since 2005 in each place (Sapporo, Muroran, Toya, Kushiro, Asahikawa). This event raises the interest in earth science of children through an experiment and display and a mini-lecture that promote the scientific attitude toward natural phenomenon. We organized an executive committee and, with cooperation of the Sapporo Science Center, held "geo-festival in Sapporo" in 2014 and 2015. In Sapporo this event was held six years' separation. But there were more than 20 experiments booth and this event was finished in the prosperity. The exhibitor included teachers, staff of Sapporo Regional Headquarters JMA, staff of Geological Survey of Hokkaido, staff of the geological feature consultant and so on. In the announcement, I report the details of this event including the contents of an exhibited experiment and experience booth.

In addition, for this event, plural university students exhibit a booth, too. By this event, the student inspected their study about the teaching materials of the Earth Science. This event is effective as a place spreading earth sciences. And, this event has value as the place of the studies of the students. We want to discuss about these.

Keywords: participation event, experiment booth, graduation research
Effects and problems of outreach programs in university campus festivals: The case of "Mushroom exhibition" in the campus festival of Chiba Institute of Science

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Outreach programs in scientific studies include lecture, symposium, fieldwork, workshop, collaboration between high school and university, cooperative activities with local government, citizens, and NPO etc. These outreach programs play an important role in promotion of extension of research activities. Fulfillment of outreach programs is important because social contribution of scientific research is needed. Fungal phylogeny, taxonomy and biogeography are main research fields in Kasuya laboratory of Department of Environmental Risk and Crisis Management, Faculty of Risk and Crisis Management in Chiba Institute of Science. Our laboratory devotes various educational activities to spread of basic knowledge on fungi including importance of them to ecosystem and human society. Our laboratory has planned mycological foray for children and high school students, supports for amateur mycologists, and lectures for civilian. In 2014 and 2015, we conducted “Mushroom exhibition” in the campus festival of Chiba Institute of Science as one of these outreach activities. Exhibition of specimens of various wild and cultivated mushrooms and pictures of mushrooms in natural habitat has been conducted in “Mushroom exhibition”. Moreover, workshops of microscopic observation of fungi and making “origami” of mushrooms have also been conducted during the exhibition. Staffs and students of our laboratory have explained contents of the exhibition to visitors. In this presentation, effects and problems of outreach programs in university campus festivals are discussed with the case of these "Mushroom exhibition".

Keywords: outreach, mushroom, fungi, exhibition
Scientific Illustration for Earth Science -Importance to illustrate science in visual -

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Scientific Illustration (SI) is originated from the "natural history illustration". During the 19th century, many of the natural history illustration in herbalism and botany are drawn in Japan. These have a "scientific accuracy". Therefore the scientific illustrator has scientific expertise and scientific observation eye. These illustrators produce the SI with scientists. The SI is different from the general art.

Today lots of the Japanese scientists play important roles in international research projects and conferences. SI can help the Japanese scientists' works in overseas. However, it has been humble in scientific community. Especially SI for the earth science is found rarely in publications in Japan and overseas. Here I present SI works in the earth science field for scientific community and for public.

Keywords: scientific illustration, earth science, cognitive and spread
Application of deep-sea videos/photos distribution site for educational fields

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The Japan Agency for Marine-Earth Science and Technology (JAMSTEC) manages the numerous deep-sea research videos and photos obtained by JAMSTEC’s manned and unmanned submersibles, e.g. “SHINKAI6500” and “HYPER-DOLPHIN”. The web site “JAMSTEC E-library of Deep-sea Images (J-EDI)” has made these videos and photos available to the public via the Internet. J-EDI also provides users with detailed information including research location, contents (ex. living organism or phenomena), etc.

In this year, we developed a new integrated display function which enables users to see videos with associated data and information obtained from a deep-sea research activity and will renew the page design and the site structure. The function to display dive information visualizes a dive track in 3-dimentional virtual space with deep-sea environmental data. Users can see deep-sea videos recorded at corresponding positions on a dive track. In addition, users can know the state of various dive research activities by taking a tour tracing a submersible’s track. Each new screen changes a layout for easy to access to videos and photos, and improves usability for using mobile devices because of seeing videos and photos at various scenes of use.

Logged-in users can download these videos and photos from J-EDI and can use them in free of charge for nonprofit scientific or educational purposes. In addition, it makes easy for users to access their selected videos and photos by adding to the “My Library” function. Users can register materials for using in lectures and educational activities to “My Library”.

J-EDI operating staffs watch all of the videos and photos and split them into scenes. Furthermore, they classify living organisms and geological/environmental features and add comments to them based on related literature, cruise reports, etc. Therefore, users can search for videos and photos by keywords, easy-to-understand icons and dive information at J-EDI.

Because comments with videos and photos also include Japanese name of marine organisms, users without scientists are also easy to search for videos and photos. Users can also watch deep-sea videos distributed from J-EDI with biological information on the marine biodiversity database of JAMSTEC, “Biological information system for marine life (BISMaL)”.

Video and photos are visually easy to understand various scientific events. These functions of video distributing will support the use of video and photos in lectures and educational activities.

Keywords: deep-sea environment, video, outreach
Geoscience education in Cambodia based on finely-detailed 3D miniature produced by rapid prototyping and projection mapping.

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In recent years, there are various environmental issues in Cambodia, such as deforestation, aerial pollution, land contamination and water pollution caused by rapid economic development. However, there are serious shortage of school teachers for environmental education in this Country. To solve this problem, we developed an educational program for environment and geology around the Mekong River at Regional Teacher Training Center (RTTC) in Kampong Cham. In this program, we provided 3D terrain miniature and mobile projection mapping system. As a first step, students learned about the overview of terrain and geology across the country by projection mapping. Subsequently, we taught about local terrain and geology using 3D miniature on the fieldwork. This educational project has been conducted under the subsidy of Japan International Cooperation Foundation, Imai Overseas Cooperation Fund and Japan Fund for Global Environment.

Keywords: Cambodia, RTTC, Geoscience education, 3D miniature, Rapid prototyping, Projection mapping
“Let’s Make Our Butterfly Diagram!”-Outreach Activity for the Elementary School Students at Kwasan Observatory

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We have provided an opportunity for the elementary school students in Kyoto City to visit our observatory and to learn the latest astronomy since 2013. Additionally, the students of Kyoto Municipal Horikawa Senior High School have contributed greatly on this outreach activity by creating the unique textbook and by guiding elementary school students at the observatory tour. In this presentation we mainly report an educational material entitled “Let’s Make Our Butterfly Diagram!” ,which is included in the observatory tour in 2015. It is one of the contents that the elementary school students draw “Our Butterfly Diagram” by their own hands.

When the students had the observatory tour, each student received a “My Sunspot Card” that has month-year information and latitude of a sunspot. According to this data, they mark a spot on the poster printed coordinate. We have got some feedbacks on these activities; “I want to learn about the universe more and more!!” “I learn that the study of the solar flare is very important, since it is danger to human life.” These comments indicate that they feel closer and familiar to the Sun and the universe at their regional observatory. Since “Our Butterfly Diagram” consists of our own data obtained by sunspot sketch over a decade at Kwasan Observatory, it impresses observers the importance of continuous observation and motivates them to keep observation.

We are considering making use of this educational tool for children and adults to present the significance of the continuous observation and to stimulate their sense of wonder for the Sun and the universe.

Finally, we express great gratitude for supporting by the Board of Education, City of Kyoto.

Keywords: Sun, Sunspot, Butterfly Diagram, Education, Outreach
Literacy of Earthquake Prediction Information for the General Public

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At the present time, many scientists recognize that it is impossible to predict an earthquake exactly with occurrence time, area and its magnitude. However, some private agencies and companies release the earthquake prediction information. Some of them seem to be scientific results, because they used reliable observation data, such as the positioning data provided by the Geospatial Information Authority of Japan (GSI). One predicts M6 class earthquake, one should put out a lot of alerts, and the prediction will be successful. Since the media tend to report only success cases, many ordinary people simply believe released prediction without any doubt. This is a typical case that citizens are misled. In this study, we discuss earthquake prediction information literacy and media literacy that you are able to make fair judgement in the information.

Keywords: Literacy, Earthquake Prediction Information, the General Public
Operation and maintenance of surface rapture –comparison between Tanna fault and Nojima fault–

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When people hear the word “earthquake" or “active fault”, they may imagine something negative such as huge damage to human lives or the accident of nuclear power plant, especially after the 2011 Tohoku earthquake. On the other hand, the uplift with a large earthquake generates a land or the crustal deformation from an earthquake forms this beautiful scenery of Japan. A surface rapture simply represents the dynamics of the earth and so provides us with an opportunity to think how to deal with natural hazards.

In Japan, there exist some parks or museums that maintain surface ruptures. Researchers make efforts to preserve a surface rupture right after an earthquake, but there needed many stakeholders to maintain and operate such parks or museums. In the presentation, we would like to report how to operate and maintain surface ruptures and related facilities by focusing on Tanna Fault Park and Nojima Fault Preservation Museum.

Keywords: surface rupture, fault preservation, active fault
Effects of seismic hazard map over low risk area residents

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A purpose of this study is to measure the critical levels of fearfulness for the long-term earthquake forecast that included the return period and probability and examined the effectiveness of several ways of communication. Participants were 2000 householders or their spouses in Tokyo metropolitan area who were from 35-55.

Results indicated that 1)values of the critical levels were different by the methods of measurement, and 2) presenting a probability by a color in the color scale rather than a number itself was more effective in the high-vulnerable group. The way to improve the current presentation of the map was discussed.

In preparation for the earthquake centered directly under the capital and the earthquake in the Nankai Trough, it is expected that disaster prevention measures are applied as soon as possible. But it is hard to say the measures to the catastrophe are sufficient. We thought that one of the causes that disaster prevention measures do not proceed is that risk communication of the earthquake is not functioning. Therefore, we conducted a survey to know how the people perceive the probability of the seismic hazard map.

About Shindo scale, the 80% of people take disaster prevention measures at Shindo 5 upper. The risk perception of people who live in the area where the seismic risk is high improved by seeing the seismic hazard map. But this trend could not be seen at people who live in the area where the seismic risk is middle. On the other hand, if the risk perception is increased, they do not try to take disaster prevention measures. This result says that it is difficult to promote to take disaster prevention measures only by information of seismic hazard made by experts.

In the presentation, we explain the improvement plan of seismic hazard map and the results of an additional survey that was carried out in a low area (0 to 0.1%) of the probability of seismic hazard map.

Keywords: seismic hazard map, risk, risk perception, earthquake, disaster prevention, disaster
Long-term disaster prevention activities in the condominium apartment

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In the Great East Japan Earthquake, many apartment residents were obliged to live uncomfortably with damage of infrastructure, although their apartments were not severely damaged. Existing studies have already pointed out the significance of the awareness of each resident or of voluntary organization for disaster prevention. It is, however, not clear that how should we enhance their awareness of disaster risk and encourage their action.

In this project, we chose a condominium apartment in Fujisawa city and empowered the residents by distributing newsletters about disaster prevention and by holding a lecture workshop for the residents. We conducted totally three social surveys to the residents to measure changes. According to the surveys, many of the residents do not take action even though they were aware of the disaster risk. They know what and how to take action and increased the behavioral intention after the lecture workshop but still did not take action. As conventional studies indicate, economic cost prevents people from taking action such as securing furniture or building stockpiles, but, this time observed a low rate of preparedness regarding family agreement or confirmation of how to communicate right after the disaster happens.

In this presentation, we would like to report the effective measure to empower apartment residents for disaster mitigation.

Keywords: earthquake, disaster prevention, disaster, community
Extension of school education for disaster prevention over households –a case study of Mashima Elementary School-

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After Great East Japan earthquake, the significance of education for disaster prevention is confirmed further and improvement of current education is highly required at every school. On the other hand, countermeasures against disaster at each household depend on the awareness of parents and so the level of preparedness resulted in large variation compared to that of schools. This represents a severe problem for protecting children’s lives because they spend more time at home than at a school. Therefore, education for disaster prevention at school should be designed to have effects over school kids’ parents.

We took an elementary school as a study field and started research activities in late July 2015 at Mashima Elementary School in Nagano City. The direct approach of our activity is limited to school kids but as is described above, we focused primarily on influencing their parents to take action at home to protect their children. One of the main activities we carried out was the lecture delivery to school kids in September. We also distributed newsletter every month so that we can encourage school kids, teachers and parents constantly.

Changes have been observed in school kids and teachers firstly, and then to parents and even to the community around the school. In the presentation, we would like to report our activities and the observed changes in consciousness and relationships between the stakeholders by applying the theory of “communities of practice” (Lave and Wenger, 1991, Sun et al., 2012). We may also clarify the turning point of their behavior modification through analyzing questionnaire and interview surveys.

Keywords: disaster prevention, education, earthquake, the theory of “communities of practice”, household
Simulation of Evacuation Site Management Using “Four-frame cartoon”

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Almost five years have passed since the Great East Japan Earthquake occurred, but most of the schools remain the ineffective earthquake drills without improving or reorganizing their disaster prevention classes. For schoolchildren to protect their lives, we need to tell them not only the earthquake mechanism but also empower them how to act when an earthquake occurs, how they should be prepared against Earthquakes, or what will happen at the evacuation site.

At the time of disaster, people have to make the best decision as quick as possible with insufficient information, and most of the time there is no formulaic answer. We therefore developed an educational material of “four-frame cartoon” suitable for pre-training the dilemma problems.

In the presentation, we will show five patterns of “four-frame cartoon” based on the manuals of evacuation site management provided by each local government. Most of Japanese local government set up teams for dealing with problems or making evacuation site rules for everyone to spend there more comfortably. We therefore took up main five teams from the manuals and made each team’s “four-frame cartoon”. These “four-frame cartoons” are designed to let the people to imagine the life at an evacuation site and simulate the severe situation that each team would experience at the time of disaster.

We will also introduce “case-cards”. “Case-cards” are made up of 8 cards and each card tells players the real-life experience at the evacuation site. By using these cards, players can assess their decision-makings and imagine the situation at the evacuation more deeply.

Keywords: Simulation of Evacuation Site Management, Disaster Prevention Education
Geostory as an effective tool for geoscientific outreach

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Geostory is an effective tool for outreach of geoscience. Geoscientific interpretation based on geostory enhances educational effects in school education, lifelong education and geoparks. Geostory depends on both scientific evidences and attractive contents, which will be promoted by geoscience collaborated with TV production. “Buratamori” produced by NHK is a famous TV program that involves geoscientific contents. “Buratamori” in Okinawa-Shuri (televised on 27 February, 2016) targets a site of the World Cultural Heritage “Gusuku Sites and Related Properties of the Kingdom of Ryukyu” involving geoscientific contents: topics on historical geology, geomorphology and hydrology. Geostory in this TV program is characterized as a seamless story integrated by multidisciplinary and interdisciplinary geoscience based on scientific evidences. Such scope probably contributes to designing geostory and improving outreach.

Keywords: Geoscience, Outreach, World Heritage
A report on practices in the geography classroom and a publication aimed at outreach for geography

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We seek to develop an effective method of outreach for geography. To do this, we are currently developing travel guidebooks and bus tour guidebooks from the perspective of regional geography. Further, in a university course, we introduced a technique for creating a town map showing regional geography.

After the course, we sought to publish a book based on the students’ work. We obtained financial support for the book’s publication but later decided instead to avail of the opportunity to publish a number of geographical magazines. At the conference, we will report on the process of trial and error that was involved in this project.

The editing committee, magazine title, and fundamental contents such as the front page design and format of each page are created by the students. At the conference, we will report on the negotiations with the publisher and students concerning this process.

The students’ engagement will distinguish our magazine from other academic publications, which sometimes seem inaccessible to general readers.

Hence, at the conference, we would like to address the readers’ requirements.

Keywords: outreach, geography, publication
Present status of publications of education and public outreach in astronomy

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I review present status of publications of formal and informal education, public outreach and science communication in astronomy. Papers are published in various journals including Education of Earth Science by Japan Society of Earth Science Education, Astronomy Education by Japan Society for Education and Popularization of Astronomy, and Journal of Japanese Association for Science Communication. More mutual citation and more publicity are needed. Agata and his colleagues have launched a working group for that purpose. A working group in International Astronomical Union also has been discussing about the repository of astronomy education research papers. A new web site of peer-reviewed astronomy education material, astroEDU, has opened. Through the peer review within astronomy education and public outreach educators and researchers, the quality of the publications is expected to be improved.

Keywords: astronomy education, publication, repository
Launching a new journal "Geoparks and Regional Resources"

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Geoparks and Regional Resources is a multidisciplinary journal that brings together scientists, administrators, businessmen, teachers, politicians and naturalists from different regions of the country. The journal cuts across regional differences to promote a common platform for identification of issues and developing solutions for each issue. It is an open access journal with a cross disciplinary approach for nature conservation and sustainable use of natural resources. The editorial board comprises of geopark professionals and researchers from different backgrounds. This journal will be a venue for staging debates and analyses on Japanese geoparks.

Keywords: open access, science communication, public access
Maintaining a repository-based e-Journal as a tool for becoming a COC

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While open access movement reduces entry barrier to scholarly publishing and knowledge, it also encompasses a tributary relation between the oligopoly publishing companies in English-speaking (mostly) developed countries and the others including Japan. For a better future development of Japanese scholarly, we shall consider a mega-journal at a national or transdisciplinary scale through the collaboration between DTP industry, educational institutions and public sector, for help expanding the employment opportunities and developing the career formation of younger post-doctoral researchers as engineering and peer-review related work officials. Steven Harnad's subversive proposal was originally connected to help sharing our scientific output quickly and securing the antecedent rights, by removing barriers, unnecessary controls and regulations related to our printing, binding and shipping time and effort. We therefore should take full advantage of web-based infrastructures to subversive today's tribuary situation, for a better open-access community.

In this report, I briefly introduce the historical overview, its manners of operation, and the prospects and problems related with the administration of a repository based e-journal “JIRCL: Journal for Interdisciplinary Research on Community Life”. Although there are some challenges that needs to be solved, this repository-based e-journal achieved totally free of charge and therefore neither of APC nor academic faculty status are required for scholarly e-publishing. JIRCL offers a new direction in academic e-publishing in the context of outreach activity at a level of what a regional university can do.

Keywords: JIRCL: Journal for Interdisciplinary Research on Community Life, Center Of Community, e-Journal
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Why do professional scientists not obtain good evaluation for their outreach activities?

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Outreach activities for general public and school children are recognized recently as required works for all professional scientists, to promote public understanding of science. In-class lecture, laboratory experiment, field observation, science cafe, for example, are performed everywhere by a number of professional scientists. However, few scientists intensively conducted outreach activities, even though they do not obtain good evaluation. No publication scheme is the main reason for undervaluation of outreach activities. Here, I propose a new on-line and free access journal focusing on outreach activities. It deals with outreach activities in all fields of school education, lifelong learning, field education, science communication, disaster prevention and mitigation, georarks and nature protection.

Keywords: Outreach, Evaluation, Journal