

# **SPARC Japan**

**(International Scholarly Communication Initiative)**

## **Annual Report FY2016**

National Institute of Informatics (NII)

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## Foreword

Fiscal 2016 celebrated the first year of Phase 5 of the International Scholarly Communication Initiative (SPARC Japan) launched in 2003. This document is an annual report summarizing the activities carried out during the past fiscal year. The contents of the newsletters, which cover SPARC Japan Seminars, are also reproduced here in their entirety.

In continuous pursuit of the activities undertaken in Phase 4 (fiscal 2013-2015), the main policy of Phase 5 of this Initiative has been to promote open access (OA) and continue with further evolution of scholarly communication. The following are our challenges in phase 5 that carried over from Phase 4: (1) cooperation with international OA initiatives, (2) advocacy activities regarding distribution of scholarly information and academic resources, (3) expanding the scope of activities for open science, and (4) gathering important information regarding open access.

From the first year of Phase 5, we determined that we would be actively involved in cooperation with international OA initiatives. It should be noted that the invitation of Dr. Salvatore Mele, who is responsible for SCOAP3 at the European Organization for Nuclear Research (CERN), helped us support the symposium for researchers in the high energy physics field in Japan. It should also be noted that, with regard to arXiv.org, Professor Takashi Hikihara, Director General of the Library Network at Kyoto University, attended the arXiv Member Advisory Board as the representative of the Consortium of Japanese Research Libraries which is coordinated by National Institute of Informatics (NII Japan Consortia), and conveyed his remarks as a voice of the NII Japan Consortia on the grand design and financial measures. In order to promptly respond to issues such as changes in external factors surrounding international initiatives and financial challenges, there is a growing importance for the National Institute of Informatics (NII) to take the lead in organizing domestic participants and continued to serve as Japan's overseas interface.

In addition, as a part of our advocacy activities, three SPARC Japan seminars were held under the annual theme “Documents and Data Dissemination in the Open Science Era.” In the first seminar, lectures and discussions were held regarding the two paths of open access articles, Green and Gold, and how we should address the relevant approach in Japan. The agenda of the second seminar included the collaboration for open research data between libraries and research communities, which is actually implemented in natural science fields, as well as the current state of institutional repositories. In the third seminar, which also served as the recapitulation of the first and second seminars and entitled “Reconsidering Open Science,” more practical activities were presented, aiming at a step forward for the implementation of the open science principles.

In Phase 5, we will continue advocacy activities to encourage participation of the stakeholders in the relevant programs to promote scholarly communication, by liaising with organizations such as the Japan Alliance of University Library Consortia for E-Resources (JUSTICE) and the Japan Consortium for Open Access Repository (JPCOAR), under the Cooperation Promotion Council which links between the National Institute of Informatics (NII) and university libraries.

SPARC Japan will continue various activities to further advance the scholarly communication. We would like to take this opportunity to express our gratitude to all who participated in our activities. We look forward to your continued support.

April 1, 2017



Jun Adachi  
Managing Director  
SPARC Japan / NII

# **1 Overview**

## **1.1 Overview of Phase 5 Activities**

### **1.1.1 Basic policy for phase 5**

Taking over the activities in phase 4, the basic policy for phase 5 is to advance further development of scholarly communication through cooperation with domestic and overseas OA initiatives and other relevant organizations and promotion of open access and related activities.

We will internationally disseminate open access activities in Japan, in alliance especially with US SPARC. In promoting open access and other relevant activities, we continue to drive advocacy activities to encourage participation in the development of scholarly communication, by striving to identify our issues first and further strengthening coordination with the Institutional Repositories Promotion Committee and the Japan Alliance of University Library Consortia for E-Resources, under the Cooperation Promotion Council which links between the National Institute of Informatics (NII) and university libraries.

### **1.1.2 Project plans for phase 5**

Plans for phase 5 of SPARC Japan are being carried out in the following four main areas, as decided in fiscal 2015 by the 3rd SPARC Japan Governing Board.

#### **(1) Cooperating with international OA initiatives**

In addition to participating in international initiatives and serving as Japan's overseas interface, we strive to disseminate relevant activities and achievements. Furthermore, we will keep our eye on the international trends and take necessary measures.

#### **(2) Advocacy activities regarding distribution of scholarly information and academic resources**

We will continue with our advocacy activities regarding open access, open science, and international distribution of publications from academic societies, in cooperation with organizations such as Cooperation Promotion Council which links between the National Institute of Informatics (NII) and university libraries.

#### **(3) Expanding the scope of activities for open science**

In line with the growing interest in open access to research results, open data which has the potential to serve as the foundation of innovation, and open education which requires reconsideration for basic components of higher education, we will promptly deliver information on the trends not only in the science and engineering fields, but also in the humanities and social sciences fields. We will also undertake a strategic review of the

involvement in open science initiatives and management of research data at university libraries.

#### (4) Gathering basic information regarding open access

Following phase 4, we will gather information on the current status to understand the basic information of open access. In light of the research strategies of each university and research institution, we will consider the possibility of the libraries playing a certain role in the collection and analysis of data.

## 1.2 Trends in Fiscal 2016

Based on the Project plans indicated in 1.1, the following were implemented in fiscal 2016.

### 1.2.1 SPARC Japan Seminar

SPARC Japan seminars were held three times during the fiscal year as advocacy activities. SPARC Japan Seminar Planning Working Group (WG) throughout the year was assigned to plan the annual theme and each seminar. Some of the WG members took charge of and implemented each seminar. Newsletters were put out after the seminar, with web editions, so as to inform the public in timely manner.

The 1st SPARC Japan Seminar 2016 September 9, 2016	"Roads to Open Access for Japan" <a href="https://www.nii.ac.jp/sparc/en/event/2016/20160909en.html">https://www.nii.ac.jp/sparc/en/event/2016/20160909en.html</a>	Newsletter No. 30 (November 2016)
The 2nd SPARC Japan Seminar 2016 (Open Access Summit 2016) October 26, 2016	"Promoting Openness of Research Data: Incentive and Data Management" <a href="https://www.nii.ac.jp/sparc/en/event/2016/20161026en.html">https://www.nii.ac.jp/sparc/en/event/2016/20161026en.html</a>	Newsletter No. 31 (January 2016)
The 3rd SPARC Japan Seminar 2016 February 14, 2017	"Future Standard Infrastructure Supporting Creation of Scientific Knowledge: Reconsidering Open Science" <a href="https://www.nii.ac.jp/sparc/en/event/2016/20170214en.html">https://www.nii.ac.jp/sparc/en/event/2016/20170214en.html</a>	Newsletter No. 32 (April 2017)

### 1.2.2 Surveys of overseas trends

We participated in the following international conferences and gathered information.

- (1) Associate Professor Yamaji (NII) attended the Confederation of Open Access Repositories (COAR) Annual Meeting 2016 (2016/4/11–13, Wien, Austria).
- (2) Professor Takeda (NII) attended the ORCID (Open Researcher and Contributor ID) Board Meeting (2016/5/18–19, Toronto, Canada).
- (3) One University Librarian as a member of Institutional Repositories Promotion Committee attended the 13th International Conference on Current Research

Information Systems (CRIS2016) (2016/6/8-11, St Andrews, Scotland).

- (4) One university librarian as a member of Institutional Repositories Promotion Committee and Associate Professor Yamaji (NII) attended the 11th Annual International Conference on Open Repositories (OR2016) (2016/6/13–16, Dublin, Ireland).
- (5) Professor Takeda and Associate Professor (by special appointment) Kurakawa (NII) attended the Research Data Alliance (RDA) 8th Plenary Meeting (2016/9/15-17, Denver, US).
- (6) Professor Takeda (NII) attended PIDapalooza (PID : Persistent ID) (2016/11/9-10, Reykjavík, Iceland).
- (7) Professor Takeda (NII) attended the IDF Strategic Meeting (2017/1/17-19, Barcelona, Spain).
- (8) Two university librarians as members of the Japan Alliance of University Library Consortia for E-Resources (JUSTICE) visited Universitätsbibliothek Regensburg, Bayerische Staatsbibliothek and Max Planck Digital Library for a study related to open access (2017/1/25-27, Regensburg and Munich, Germany).

### **1.2.3 Support for arXiv.org**

arXiv.org is a preprint server in the field of physics operated by Cornell University Library. The number of available articles passed the one million mark in December 2014. The number of new submissions comes to 90,000 per year, and the number of downloads currently stands at about 81 million per year. Financial assistance is provided from top high-volume user organizations, and a total of 183 institutions from 24 countries are participating in the 2013–17 arXiv membership program.

NII has supported arXiv.org in Japan by contacting universities to confirm their intent to participate. Questionnaires were sent to the universities ranked in the top 300 users to ascertain their intent to apply for membership. As of the end of March 2017, a total of 14 Japanese institutions are registered members.

An inquiry was received from Cornell University in April 2014 concerning formation of a consortium of Japanese members. Following confirmation with members, a consortium agreement was concluded resulting in a 10 percent reduction in membership fees for consortium members.

In fiscal 2015, the consortium was formally named the Consortium of Japanese Research Libraries: Coordinated by National Institute of Informatics (NII), abbreviated as NII Japan Consortia. Director-General Takashi Hikihara of Kyoto University Library

Network was appointed representative of NII Japan Consortia in 2016 and attended the meeting of the Member Advisory Board (MAB) of arXiv.org held on September 12-13, 2016.

#### **1.2.4 Support for SCOAP<sup>3</sup>**

Since the launch of SCOAP<sup>3</sup> in 2014, NII has functioned as Japan's national contact point. During 2015, NII once again confirmed the intention of participation in the consortium as well as the relevant contact information of university libraries, and collected contribution fees and paid them on behalf of these partners. As of the end of March 2016, 34 Japanese institutions were participating in the consortium.

The number of scientific articles converted to open access by SCOAP<sup>3</sup> has been steadily growing. The number of articles published in the relevant 10 journals numbered 3,552 in 2011, the base year for computation of contribution amounts. In comparison, the number of such articles totaled 4,280 in 2014 and 4,477 in 2015. During 2014–2015, the average article processing charge (APC) was 1,100 euros, which is lower than the APC level of gold open access journals.

Disclosure of the SCOAP<sup>3</sup> repository, which lists SCOAP<sup>3</sup> open-access articles, and its Application Programming Interface (API) has already been started. Repository disclosure is based on the assignment of Digital Object Identifier (DOI), CC BY license attribution, and XML format, and allows for text mining and data mining. It was reported that open-access articles reached the 10,000 mark in March 2016.

During this fiscal year, we invited Dr. Salvatore Mele (CERN), who is responsible for SCOAP<sup>3</sup>, and held lectures and discussions to exchange views regarding SCOAP<sup>3</sup> (at NII on December 7 and in Kyoto on December 8). In addition, Professor Jun Adachi from NII, a member representing Japan at SCOAP<sup>3</sup> Governing Council, attended the Executive Meetings (October 14-15, 2016 and March 20, 2017) as well as the Governing Council Meeting (March 23-24, 2017).

#### **1.2.5 Support for CLOCKSS**

CLOCKSS (Controlled Lots of Copies Keep Stuff Safe) aims to realize long-term preservation of digital resources (web-based academic papers, etc.) for researchers worldwide and undertakes initiatives including establishment of an archive and a community to manage it, to enable researchers to widely access the archived contents when they are no longer available from the respective publishers.

In Japan, NII has been confirming each university's intention for participation and collecting the payments of the annual membership fee since 2013. As of the end of June 2016, 99 institutions are participating in Japan.

#### **1.2.6 Responses to international collaboration agreement on information services in the high energy physics field**

The three institutions, the European Organization for Nuclear Research (CERN), the High Energy Accelerator Research Organization (KEK), and the National Institute of Informatics (NII) concluded the international collaboration agreement concerning the field of high energy physics. To conduct a joint project on the delivery of data curation centered on the INSPIRE database, which is the document information service in the field of high energy physics provided by CERN, one university librarian was dispatched to CERN for one year from March 2016 and stakeholders of the CERN and NII conducted video conferences several times.

#### **1.2.7 Publication of Fiscal 2015 SPARC Japan Annual Report**

Activities undertaken during fiscal 2015 were summarized in an annual report (Japanese version) published in October 2016 and the annual report FY2014 in English was published in January 2017.

#### **1.2.8 Study on OA Publishing and APC Spend in Japan**

In 2015, we collaborated with the Japan Alliance of University Library Consortia for E-Resources (JUSTICE) to organize a team under JUSTICE for studying the current status of open-access scholarly papers. The team initiated a study of open-access papers and Article Processing Charge (APC) in Japan. In fiscal 2016, we continued to conduct follow-up activities.

## 2 Record of Meeting

### 2.1 SPARC Japan Governing Board

Date	Agenda
September 6, 2016	1. Summary of minutes of the last meeting (draft) 2. Progress of SPARC Japan Seminars in fiscal 2016 3. Activity of the team for studying on OA publishing and APC spend in Japan 4. Cooperation with overseas OA initiatives 5. Surveys of overseas trends related to open access 6. Others
March 14, 2017	1. Summary of minutes of the last meeting (draft) 2. Report on the activities of SPARC Japan in fiscal 2016 3. Activity of the team for studying on OA publishing and APC spend in Japan 4. Surveys of overseas trends related to open access 5. Cooperation with overseas OA initiatives 6. Plans for the activities of SPARC Japan in fiscal 2017 [discussion] 7. Establishment of a planning working group for SPARC Japan Seminar 2017 [discussion] 8. Others

### 2.2 Planning Working Group for SPARC Japan Seminar

Date	Agenda
Kick off meeting June 9, 2016	1. Annual theme 2. Schedule and duties 3. Others

## 3 List of Members

### 3.1 SPARC Japan Governing Board

Name	Title / Affiliation
Hiroshi Itsumura	Professor, Master's and Doctoral Programs of Library, Information and Media Studies, University of Tsukuba
Hiroshi Imai	Professor, Graduate School of Information Science and Technology, University of Tokyo
Shigefumi Mori	Professor, Research Institute for Mathematical Sciences, Kyoto University
Syun Tutiya	Professor, National Institution for Academic Degrees and University Evaluation
Keiko Kurata	Professor, Faculty of Letters, Keio University
Tomio Kobayashi	Professor, High Energy Accelerator Research Organization (KEK) Head, International Cooperation Office
Yasunori Fukagai	Professor, Graduate School of International Social Sciences International Social Sciences Section, Yokohama National University
Koichi Ojio	General Manager, the University of Tokyo Library System

Masayuki Shoji	General Manager, Waseda University Library
Kazuhiro Hayashi	Senior Research Fellow, National Institute of Science and Technology Policy
Jun Adachi	Deputy Director General, National Institute of Informatics
Kiyohiko Sakai	Deputy Director, Cyber Science Infrastructure Development Department, National Institute of Informatics

### 3.2 Planning Working Group for SPARC Japan Seminar 2016

Name	Title / Affiliation
Shigetoshi Kajiwara	Librarian, Hokkaido University Library
Wataru Ono	Librarian, Tokyo Gakugei University Library
Kazuhiro Hayashi	Senior Research Fellow, National Institute of Science and Technology Policy
Masahito Nosé	Assistant Professor, Graduate School of Science, Kyoto University
Ayuko Nishiwaki	Librarian, Meiji University Library
Hidemasa Bono	Project Associate Professor, Database Center for Life Science Joint Support-Center for Data Science Research Research Organization of Information and Systems
Yasuyuki Minamiyama	Librarian, National Institute of Polar Research
Kei Kurakawa	Associate Professor (by special appointment), National Institute of Informatics

## 4 Record of SPARC Japan Seminar 2016

	Date / Place	Title	Planning WG member (in alphabetical order) * Chief of a seminar	Speaker	Attendees
1	September 9, 2016 13:00 - 16:40 National Institute of Informatics	"Roads to Open Access for Japan"	o Ayuko Nishiwaki (Meiji University Library) o Hidemasa Bono (Database Center for Life Science) o Kei Kurakawa (National Institute of Informatics) * o Shigetoshi Kajiwara (Hokkaido University Library)	o Syun Tutiya (National Institution for Academic Degrees and Quality Enhancement of Higher Education) o Koichi Ojiro (Japan Alliance of University Library Consortia for E- Resources (JUSTICE) / The University of Tokyo Library System) o Jun Adachi (National Institute of Informatics) o Masayuki Shoji (Waseda University Library) o Hidemasa Bono (Database Center for Life Science) o Kazuo Yamamoto (University of the Ryukyus Library) [Moderator]	119
2	October 26, 2016 13:00 - 17:15 National Institute of Informatics	"Promoting Openness of Research Data: Incentive and Data Management" Open Access Summit 2016 -Open Access Week 2016 "Open in Action"-	o Hidemasa Bono (Database Center for Life Science) o Kei Kurakawa (National Institute of Informatics) o Masahito Nosé (Kyoto University) * o Yasuyuki Minamiyama (National Institute of Polar Research)	o Takeru Nakazato (Database Center for Life Science) o Kenichi Shimoda (Nagasaki University Library) o Yasuyuki Minamiyama (National Institute of Polar Research) o Takaaki Aoki (Kyoto University) o Hideaki Takeda (National Institute of Informatics) o Kei Kurakawa (National Institute of Informatics) [Moderator]	112
3	February 14, 2017 10:30 - 17:20 National Institute of Informatics	"Future Standard Infrastructure Supporting Creation of Scientific Knowledge: Reconsidering Open Science"	o Kazuhiro Hayashi (National Institute of Science and Technology Policy) o Masahito Nosé (Kyoto University) o Shigetoshi Kajiwara (Hokkaido University Library) * o Wataru Ono (Tokyo Gakugei University Library) o Yasuyuki Minamiyama (National Institute of Polar Research)	o Ron Dekker (European Commission (DG Research & Innovation)) o Asanobu Kitamoto (National Institute of Informatics / CODH) o Yasushi Ogasaka (Japan Science and Technology Agency) o Chie Onodera (National Institute for Materials Science) o Masafumi Ono (Earth Observation Data Integration & Fusion Research Initiative (EDITORIA), the University of Tokyo) o Ikki Ohmukai (National Institute of Informatics) o Shigetoshi Kajiwara (Hokkaido University Library) o Shunichi Tamura (Shiga University of Medical Science Library) o Koichi Ojiro (The University of Tokyo Library System) o Kazuhiro Hayashi (National Institute of Science and Technology Policy) [Moderator]	118
Total					349
Average					116

## 5 History

Fiscal Year	Council / Governing Board Meeting	Event	Related Event / Others
2003	06/25 The 1st Council Meeting		
	07/14 Recruitment of Participating Journals	07/02 Briefing on Project Concept for Academic Societies, at Japan Education Center	
	08/01 The 1st Governing Board Meeting		
	09/11 The 2nd Governing Board Meeting	08/19 Briefing on Project Concept, at Tohoku University	
	09/17 The 2nd Council Meeting (Adoption of Participating Journals)		
	09/17 Press Release		
	10/08 Joint Meeting of Working Groups		
			11/05 The 5th Library Fair & Forum “SPARC Japan: Transforming International Scholarly Communication in Japan” at Tokyo International Forum, sponsored by Japan Council of National University Libraries and Japan Association of Private University Libraries
			11/20 Japan Council of National University Libraries Task Force on E-Journal started negotiation with publishers in Biological Science, Physics, and Medicine.
2004	03/22 The 3rd Governing Board Meeting	01/21-29 Briefing on Project Euclid, at National Center of Sciences, Tohoku University, Kyoto University and Nagoya University	
	03/23 The 3rd Council Meeting	02/23 SPARC Japan Meeting Report and Briefing on Concept of New Journals at National Center of Sciences	
	05/28 The 1st Governing Board Meeting	03/11 SPARC Japan Seminar “Future Perspective of Scholarly Communication in Biological Sciences -UniBio Press Mission”, at The University of Tokyo library	
	06/02 The 1st Council Meeting		



06/08 The 1st Council Meeting	06/29 The 2nd SPARC JAPAN Seminar 2005 “J-STAGE Online Submission and Review System”  07/09-10 Closed Workshop “E-Journals: Current Usage and Future Prospects” at Keidanren Guest House  07/15 The 3rd SPARC JAPAN Seminar 2005 “Theory and Practice of Open Access - Researchers, Library, Academic Journals”  07/20 UniBio Press Initiatives: New Business Model at Academic Societies, sponsored by Ibaragi University Library	06/21-22 Participation in the JISC International Solutions for the Dissemination of Research, London, UK  07/07-08 Elsevier Library Connect Seminar 2005, “Understanding Users”, in Kyoto and Tokyo, Supported by NII  09/15 Yamaguchi University Library Lecture 2005 “Status of E-Journals and scholarly communication in Japan - Role and Activities of SPARC Japan” Sponsored by Yamaguchi University Library  09/16 Symposium on E-journals “Management of academic resources in University: for transforming scholarly communication in era of E-journals” at Kyoto University, Co-Sponsored by Academic Center for Computing and Media Studies, Kyoto University Library and NII
10/13 The 2nd Governing Board Meeting  10/26 The 2nd Council Meeting (Adoption of Participating Journals)	09/22 The 4th SPARC JAPAN Seminar 2005 “How do we launch and publish e-journals? -challenges for academic societies and publishers”  10/06 The 5th SPARC JAPAN Seminar 2005 (The 76th Annual Meeting of the Zoological Society of Japan) “What should researcher React? - in the era of E-Journals” at International Congress Center, Co-sponsored by the zoological Society of Japan  11/24 Special Session of The SPARC JAPAN Seminar “Briefing and Demonstration of Online Submission and Review System: Journal of Bioscience and Bioengineering”  11/30 The 6th SPARC JAPAN Seminar 2005 (The 7th Library and Forum) “COUNTER project: Setting International Standards for Online Usage” at Pacifico Yokohama  12/01 Closed Workshop on COUNTER project  12/12 The 7th SPARC JAPAN Seminar 2005 “English Reviewer in Academic Journals in Japan”	12/09 Nagasaki University Library Lecture 2 “Latest Trends in Scholarly Communication: Role and Activities of SPARC Japan”, Sponsored by Nagasaki University Library

2006	02/15 The 3rd Governing Board Meeting	01/31 The 8th SPARC JAPAN Seminar 2005 “Trends and Technical Standards in Scholarly Communications: Google Scholar, CrossRef, OAI-PMH etc.”  02/10 The 9th SPARC JAPAN Seminar 2005 “Wrap-up Session by SPARC Japan Partners”	
	02/24 The 3rd Council Meeting	06/30 The 1st SPARC Japan Seminar 2006 “Academic Community in Japan: Views from Overseas Publishers”  07/26 The 2nd SPARC Japan Seminar 2006 “Promotion of E-Journal and Licensing: Worldwide Trends and Outlook for Japanese Journals”  09/05 Lecture “Introducing ALPSP” by Ms. Sally Morris  09/29 The 3rd SPARC Japan Seminar 2006 “Evaluating Online Submission System: Before and After”  11/02 The 4th SPARC Japan Seminar 2006 “Request from University Libraries to Publishers: COUNTER as an Example”  11/20 The 8th Library and Forum Fair “TRANSFER Update: to improve procedures and policies surrounding transfer of journals” at Pacifico Yokohama  12/14 The 5th SPARC Japan Seminar 2006 “Copyright: for Academic Societies, Authors and Institutional Repository”  12/18-19 International Symposium: Future of Institutional Repositories, e-Science and the Future of Scholarly Communication “Standing on the Shoulders of Digital Giants” at Toshi Center Hall  01/30 The 6th SPARC Japan Seminar 2006 “Promotion of E-Journal and Licensing (2) Tips from the Experts”	03 MOU Conclusion with The Association of Research Libraries (ARL)  07/03-04 Elsevier Library Connect Seminar 2006, “From “Search” to “Find””, in Tokyo, and Osaka, sponsored by NII
	09/08 The 1st Governing Board Meeting		
	01/30 The 2nd Governing Board Meeting		

		03/05 The 7th SPARC Japan Seminar 2006 “Measuring Performance of Journals/Articles by Bibliometrics”	
2007			05/15 UniBio Press Seminar “Challenges for Journal of Biological Sciences: for broader and more accurate dissemination of information” at National Center of Sciences
	06/12 Joint Meeting / SPARC Japan Partners		05/17 UniBio Press Seminar “Challenges for Journal of Biological Sciences: for broader and more accurate dissemination of information” at Kyoto University Library
	07/19 The 1st Governing Board Meeting	07/17 The 1st SPARC Japan Seminar 2007 “Measuring Performance of Journals/Articles by Bibliometrics - Series 2”	08/05-11 Participation in the 41st IUPAC Congress (International Union of Pure and Applied Chemistry), Torino, Italy
		10/02 The 2nd SPARC Japan Seminar 2007 “Evaluating Online Submission and Review System Part 3 – For Better System”	08/20-22 Participation in the 234th ACS (American Chemical Society) National Meeting & Exposition, Boston, US
		11/02 The 3rd SPARC Japan Seminar 2007 “Current State of Metadata Publishing - Things Needed for Production and Publishing of Electronic Journals”	
		11/09 Presentation at The 9th Library Fair & Forum “Challenges for Japanese Leading E-journals: Proposals from SPARC Japan Partners” at Pacifico Yokohama	11/07-09 Participation in The 9th Library Fair & Forum, at Pacifico Yokohama
	12/14 SPARC Japan Partners·University Libraries Joint Meeting “Forming a consortium of SPARC Japan Partners”	01/17 The 4th SPARC Japan Seminar 2007 (SPARC Japan·ALPSP Special Seminar) “Journal Publishing and Scholarly Societies”	
		01/18 ALPSP Training Course “Introduction to Journal Publishing”	
2008	02/29 The 2nd Governing Board Meeting	04/22 The 1st SPARC Japan Seminar 2008 “The Future of Academic Journals as a Means of Disseminating Research Results”	06/15-17 SPARC Japan Partners exhibited at the SLA 2008 Conference (Special Libraries Association), Seattle, US

		<p>06/24 The 2nd SPARC Japan Seminar 2008 “Academic Publishing and the Approach to XML - Issues in Japan”</p> <p>07/10 The 3rd SPARC Japan Seminar 2008 “The Status of Consortium in Korea - For Expanding our Global Presence”</p> <p>09/02-03 The 4th SPARC Japan Seminar 2008 (RIMS Workshop) “Digitization of Bulletin and the Surrounding Issues” at Research Institute for Mathematical Sciences, Kyoto University</p> <p>10/14 The 5th SPARC Japan Seminar 2008 “What is the most appropriate OA model for Japan?”</p> <p>11/17-18 SPARC Digital Repositories Meeting 2008, Baltimore, US Co-hosted by SPARC, SPARC Europe and SPARC Japan</p> <p>11/25 The 6th SPARC Japan Seminar 2008 “Beyond IF - we need some different perspectives”</p> <p>11/27 The 7th SPARC Japan Seminar 2008 (The 10th Library Fair &amp; Forum 2008, Scientific Information Open Summit) “Open Access Update”</p> <p>12/16 The 8th SPARC Japan Seminar 2008 “E-Journal Platforms that fit the requirements in Japan”</p>	<p>06/26 Participation in the 55th General Assembly of JANUL (Japan Association of National University Libraries), at Tohoku University</p> <p>07/13-15 Participation in The General Conference of the Chinese Chemical, Tianjin, China</p> <p>08/17-19 Participation in the 236th ACS (American Chemical Society) National Meeting &amp; Exposition, Philadelphia, US</p> <p>09/11-12 Participation in the General Conference of JASPUL (Japan Association of Private University Libraries), at Kokugakuin University</p> <p>09/16-20 Participation in the 2nd EuCheMS Chemistry Congress, Torino, Italy</p> <p>09/25-26 Presentation at KESLI (Korean Electronic Site License Initiative), Daejeon, Korea</p> <p>10/12-15 Promotion at the 15th North American ISSX (International Society for the Study of Xenobiotics) Meeting, San Diego, US</p> <p>10/27-30 Participation in ISAP2008 (International Symposium on Antennas and Propagation), Taipei, Taiwan</p> <p>11/13-14 Participation in the INFOPRO2008, at National Museum of Emerging Science and Innovation</p>
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2009	<p>12/24 The 1st Governing Board Meeting</p> <p>03/10 The 2nd Governing Board Meeting</p> <p>03/27 Joint Meeting / SPARC Japan Publishing Partners</p> <p>03/27 The 3rd Governing Board Meeting</p>	<p>01/22-26 Project Euclid-Mathematics Journals Meeting at National Institute of Informatics, Kyoto University and Tokyo Institute of Technology</p> <p>02/13 The 9th SPARC Japan Seminar 2008 "Report from SPARC Japan Partners"</p>	<p>12/17-20 Participation in the International Conference on Embedded and Ubiquitous Computing (EUC 2008), Shanghai, China</p> <p>03/16-20 Participation in the 2009 APS (American Physical Society) Meeting, Pittsburgh, US</p>
	<p>10/05 The 1st Governing Board Meeting</p>	<p>06/25 The 1st SPARC Japan Seminar 2009 "Voluntary publication from researchers through a variety of network media in quest of dissemination to the general public"</p> <p>08/04 The 2nd SPARC Japan Seminar 2009 "Sustainability of non-profit publishers - learning from OUP"</p> <p>09/08-09 The 3rd SPARC Japan Seminar 2009 (RIMS Workshop) "Towards a Digital Mathematics Library"</p> <p>09/17 The 4th SPARC Japan Seminar 2009 (Annual Meeting of the Zoological Society of Japan) "ZIS Project"</p> <p>10/20 Open Access Week (The 5th SPARC Japan Seminar 2009) "An open access business model and researchers' attitudes"</p> <p>11/11 The 6th SPARC Japan Seminar 2009 (Library Fair &amp; Forum) "NIH Public Access Policy"</p> <p>12/11 The 7th SPARC Japan Seminar 2009 "Status of Social Sciences Journals - Issues of IR, Copyright, E-journals"</p> <p>02/02 The 8th SPARC Japan Seminar 2009 "Marketing to Libraries Worldwide"</p>	<p>11/25 SPARC Japan Publishing Partners in Chemistry Participated in the APBioChEC (Asia Pacific Biochemical Engineering Conference) 2009, at Kobe Convention Center</p> <p>12/03-04 DRF International Conference 2009 (DRFIC 2009), Co-hosted by DRF and NII, at Tokyo Institute of Technology</p>

	03/23 The 2nd Governing Board Meeting	02/03 ALPSP Training Course “Effective Journals Marketing”	
2010		<p>06/23 The 1st SPARC Japan Seminar 2010 “Work and Management of Academic Societies”</p> <p>07/06 The 2nd SPARC Japan Seminar 2010 “Journal Publishing - Current Situation of Overseas Academic Societies”</p> <p>08/24 The 3rd SPARC Japan Seminar 2010 “The Work of Libraries - Subscription and Use of Academic Journals”</p> <p>09/16 The 4th SPARC Japan Seminar 2010 (RIMS Workshop) “Towards a Digital Mathematics Library”</p> <p>09/24 The 5th SPARC Japan Seminar 2010 (Annual Meeting of the Zoological Society of Japan) “A look ahead to the next decade of scholarly communications in Japan”</p> <p>10/20 The 6th SPARC Japan Seminar 2010 (Open Access Week) “Open Access Disseminated from Japan”</p> <p>11/08-09 The SPARC Digital Repositories Meeting 2010, Baltimore, US, Co-sponsored by SPARC, SPARC Europe and SPARC Japan</p> <p>12/10 Joint Symposium “Open Access Policy for the Dissemination of the Research Outcomes from Universities” at Iron Gate Memorial Hall, The University of Tokyo</p> <p>01/14 The 7th SPARC Japan Seminar 2010 “Author ID: Recent Developments”</p> <p>02/03 The 8th SPARC Japan Seminar 2010 “Impact and Position of Japanese Journals/Articles in the World”</p>	<p>08/19 Participation in the International Congress of Mathematicians (ICM), Hyderabad, India</p> <p>08/22-26 Participation in the 240th ACS (American Chemical Society) National Meeting and Exposition, Boston, US</p> <p>08/29-09/02 Participation in the 3rd EuCheMS Chemistry Congress, Nurnberg, Germany</p>

	03/16	The 1st Governing Board Meeting	03/08 MoU Signing Event between German National Library of Science and Technology (TIB) / German National Library of Medicine (ZB MED) / National Institute of Informatics (NII) Symposium: "The Future of Scholarly Communication Infrastructure in German and Japan"	
2011				08/28-09/01 Participation in the 242nd ACS (American Chemical Society) National Meeting & Exposition, Denver, US  09/04-09 Participation in the 14th Asian Chemical Congress 2011, Bangkok, Thailand  10/26 Presentation at the 2011 Open Access Korea (OAK) Conference, Seoul, Korea by Jun Adachi "Open Access in Japan: 2011 Updates"
	10/06	The 1st Governing Board Meeting	10/28 The 1st SPARC Japan Seminar 2011 (Open Access Week) "Current Situation and Strategy of Open Access from Viewpoints of Journal Publishing"  12/06 The 2nd SPARC Japan Seminar 2011 "Workshop for Contemporary Reference Management Tools"  01/31 The 3rd SPARC Japan Seminar 2011 "New Movement of the Distribution on Scholarly Information - Open Access for Researchers and Academic Societies"  02/10 The 4th SPARC Japan Seminar 2011 "Distribution of Academic Information: Open the Way to the Future - Crisis of Online Journal and Open Access"  02/29 The 5th SPARC Japan Seminar 2011 "Burgeoning Open Access MegaJournals"  03/26 The 6th SPARC Japan Seminar 2011 (Project Euclid & Mathematical Society of Japan, Joint Workshop) "Workshop on Mathematics Publishing"	
	03/27	The 2nd Governing Board Meeting		

2012		05/25 The 1st SPARC Japan Seminar 2012 “Review of Research Assessment”		
		06/19 The 2nd SPARC Japan Seminar 2012 “Further Progress of Journals - Focusing on Platform Transfer”		
		07/25 The 3rd SPARC Japan Seminar 2012 “Reform: Grants-in-Aid for Scientific Research (Publication of Research Results/Scientific Periodicals)”		
		08/23 The 4th SPARC Japan Seminar 2012 “Open Access Journal: Funder-Researcher Collaboration in Science Communication”		
		10/26 The 5th SPARC Japan Seminar 2012 “Open Access Week - Open Access in Japan, Last Decade and Next Decade”		
	12/10 The 1st Governing Board Meeting	12/04 The 6th SPARC Japan Seminar 2012 “How Open Access Can Change Libraries & Librarians - Course on Open Access for Libraries & Librarians”		
		02/19 The 7th SPARC Japan Seminar 2012 “Libraries’ Financial Support for Open Access”		
2013	03/26 The 2nd Governing Board Meeting			
		06/07 The 1st SPARC Japan Seminar 2013 “Future Perspective: SPARC and SPARC Japan”		
		08/23 The 2nd SPARC Japan Seminar 2013 “Latest Developments in Open Access - Humanities and Social Sciences -”		
		10/25 The 3rd SPARC Japan Seminar 2013 “Redefining the Impact of Research Outputs in the Age of Open Access: Current State of Reuse and Altimetrics”		
		12/19 The 4th SPARC Japan Seminar 2013 “Accessing & Publishing of Academic Information- Think Globally, Act Locally”		
			07/02-07 Participation in the 6th European Congress of Mathematics (ECM), Kraków, Poland	
			08/19-21 Participation in the 244th ACS (American Chemical Society) National Meeting & Exposition, Philadelphia, US	
			08/26-30 Participation in the 4th EuCheMS Chemistry Congress, Prague, Czech Republic	
			12/26-27 Keynote Speech at RIMS Joint Research, Kyoto University	
			08/06 The 1st Working Group Meeting for Survey on Submission to OA Journals	
			10/02 The 2nd Working Group Meeting for Survey on Submission to OA Journals	
			12/04 MOU Conclusion on SCOAP <sup>3</sup> with CERN	
			01/27 Keynote Speech at RIMS Joint Research, Kyoto University	

2014	03/24 The 1st Governing Board Meeting	02/07 The 5th SPARC Japan Seminar 2013 “Winds of Change: The Past, Present, and Future of Open Access in Asia”	03/02 Participation in the COAPI Meeting, Kansas City, US  03/03-04 Participation in the 2014 SPARC Open Access Meeting, Kansas City, US  03/13 The 3rd Working Group Meeting for Survey on Submission to OA Journals  05/21-23 Participation in the COAR (Confederation of Open Access Repository) 2014 Annual meeting, Athens, Greece  06/09-13 Participation in the OR2014 (The 9th Annual International Conference on Open Repositories), Helsinki, Finland
		08/04 The 1st SPARC Japan Seminar 2014 “How Do We Face APCs? - Perspective of APCs Through Trends and Surveys In and Outside of Japan -”  09/26 The 2nd SPARC Japan Seminar 2014 “Institutional Open Access Policy : Toward the Development of Japanese Models”  10/21 The 3rd SPARC Japan Seminar 2014 “Science for ‘Generation Open’ ” Open Access Summit 2014 -Open Access Week 2014 “Generation Open”-  03/09 The 4th SPARC Japan Seminar 2014 “What Should We Do to Expand Green Content?”	
2015	01/15 The 1st Governing Board Meeting  03/19 The 2nd Governing Board Meeting		04/15-16 Participation in the COAR (Confederation of Open Access Repository) 2015 Annual meeting, Porto, Portugal  05/18-20 Participation in the ORCID-CASRAI Joint Outreach Conference & Codefest and the ORCID Board Meeting, Barcelona, Spain  06/08-11 Participation in the OR2015 (The 10th Annual International Conference on Open Repositories), Indianapolis, US
		09/30 The 1st SPARC Japan Seminar 2015 “How Can We Evaluate the Work on Humanity and Social Sciences?” - From the Scholarly Communication Point of View -”	

	11/30 The 2nd Governing Board Meeting	<p>10/21 The 2nd SPARC Japan Seminar 2015 “Towards the New Paradigm of Science and Scholarly Communication Environment - E-Science, Research Data Sharing, and Research Data Infrastructures -” Open Access Summit 2015 -Open Access Week 2015 “Open for Collaboration”-</p> <p>01/19 The 3rd SPARC Japan Seminar 2015 “Challenges and Possibilities of Emerging Research Information Platforms”</p> <p>03/09 The 4th SPARC Japan Seminar 2015 “The Function of University Libraries in the Context of Research Promotion”</p>	<p>11/03-06 Participation in the ORCID Outreach Meeting &amp; Codefest, in November 2015 and the ORCID Board Meeting, San Francisco, US</p> <p>02/02-03 Participation in the ORCID Board Meeting, London, UK</p> <p>03/07-08 Participation in the SPARC Meeting on Openness in Research &amp; Education, San Antonio, US</p>
2016	03/24 The 3rd Governing Board Meeting		<p>04/11-13 Participation in the COAR (Confederation of Open Access Repository) Annual Meeting 2016, Wien, Austria</p> <p>05/18-19 Participation in the ORCID Board Meeting, Toronto, Canada</p> <p>06/08-11 Participation in the CRIS2016 (The 13th International Conference on Current Research Information Systems), St Andrews, Scotland</p> <p>06/13-16 Participation in the OR2016 (The 11th Annual International Conference on Open Repositories), Dublin, Ireland</p> <p>09/12-13 Participation in the arXiv.org Member Advisory Board Meeting, Ithaca, US</p> <p>09/15-17 Participation in the RDA (Research Data Alliance) 8th Plenary Meeting, Denver, US</p> <p>10/14-15 Participation in the SCOAP<sup>3</sup> Executive Meeting, Geneva, Switzerland</p> <p>11/09-10 Participation in the PIDapalooza (PID : Persistent ID), Reykjavik, Iceland</p> <p>12/07-09 Cooperation with lectures and discussions about SCOAP<sup>3</sup>, Tokyo and Kyoto</p> <p>01/17-19 Participation in the IDF Strategic Meeting, Barcelona, Spain</p> <p>01/25-27 Study visits to overseas institutions related to open access, Regensburg and Munich, Germany</p>
	09/06 The 1st Governing Board Meeting	<p>09/09 The 1st SPARC Japan Seminar 2016 “Roads to Open Access for Japan”</p> <p>10/26 The 2nd SPARC Japan Seminar 2016 “Promoting Openness of Research Data: Incentive and Data Management” Open Access Summit 2016 -Open Access Week 2016 “Open in Action”-</p> <p>02/14 The 3rd SPARC Japan Seminar 2016 “Future Standard Infrastructure Supporting Creation of Scientific Knowledge: Reconsidering Open Science”</p>	

03/14	The 2nd Governing Board Meeting	03/20 Participation in the SCOAP <sup>3</sup> Executive Meeting, Geneva, Switzerland 03/23-24 Participation in the SCOAP <sup>3</sup> Governing Council Meeting, Geneva, Switzerland
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## 6 Publication

### 6.1 SPARC Japan Annual Report

- SPARC Japan (International Scholarly Communication Initiative) Annual Report FY2014  
[http://www.nii.ac.jp/sparc/en/publications/pdf/sparc\\_annual\\_2014-E.pdf](http://www.nii.ac.jp/sparc/en/publications/pdf/sparc_annual_2014-E.pdf)

### 6.2 SPARC Japan NewsLetter

- SPARC Japan NewsLetter No. 30, Nov. 2016  
<http://www.nii.ac.jp/sparc/en/publications/pdf/sj-NewsLetter30E.pdf>
- SPARC Japan NewsLetter No. 31, Jan. 2017  
<http://www.nii.ac.jp/sparc/en/publications/pdf/sj-NewsLetter31E.pdf>
- SPARC Japan NewsLetter No. 32, Apr. 2017  
<http://www.nii.ac.jp/sparc/en/publications/pdf/sj-NewsLetter32E.pdf>

### 6.3 Reference for SPARC Japan Seminar 2016

【The 1st SPARC Japan Seminar 2016】 September 9, 2016

“Roads to Open Access for Japan”

<https://www.nii.ac.jp/sparc/en/event/2016/20160909en.html>

- Outline: Kei Kurakawa, National Institute of Informatics
- “Two Roads to Open Access Revisited: Green and Gold”  
Syun Tutiya, National Institution for Academic Degrees and Quality Enhancement of Higher Education
- “Flipping Cash Flow for Scholarly Journals: Report of the Preliminary Results of the Survey Conducted Jointly by JUSTICE and SPARC Japan”  
Koichi Ojio, Japan Alliance of University Library Consortia for E-Resources (JUSTICE) / The University of Tokyo Library System
- “Converting Scholarly Journals to Open Access in SCOAP<sup>3</sup>”  
Jun Adachi, National Institute of Informatics
- “Efforts for Open Access in University Libraries”  
Masayuki Shoji, Waseda University Library
- “‘What is the Best Journal for My Paper?’ Open Access Journals and Life Science”  
Hidemasa Bono, Database Center for Life Science

【The 2nd SPARC Japan Seminar 2016】 October 26 , 2016

“Promoting Openness of Research Data: Incentive and Data Management”

Open Access Summit 2016 -Open Access Week 2016 “Open in Action”-

<https://www.nii.ac.jp/sparc/en/event/2016/20161026en.html>

- Outline: Masahito Nosé, Graduate School of Science, Kyoto University
- “Incentives and Adoption Barrier of Open Data in Biomedical Research”  
Takeru Nakazato, Database Center for Life Science
- “Opening of Old Japanese Photograph Image Data and Roles of Academic Libraries”  
Kenichi Shimoda, Nagasaki University Library
- “Interim Report of Creating Metadata for Upper-Atmospheric Observational Data by Librarian”  
Yasuyuki Minamiyama, National Institute of Polar Research
- “Research Data Management in Japanese University”  
Takaaki Aoki, Institute for Information Management and Communication, Kyoto University
- “Domestic and International Activities on Research Data Utilization”  
Hideaki Takeda, Research Data Utilization Forum / National Institute of Informatics

【The 3rd SPARC Japan Seminar 2016】 February 14, 2017

“Future Standard Infrastructure Supporting Creation of Scientific Knowledge: Reconsidering Open Science”

<https://www.nii.ac.jp/sparc/en/event/2016/20170214en.html>

- Opening Greeting/Outline: Shigetoshi Kajiware, Hokkaido University Library
- “Open Science in a European Perspective”  
Ron Dekker, European Commission (DG Research & Innovation)
- “Deep Learning and Open Science – Extreme Speed-up of Scientific Research Triggers Shift Toward Friction-Less Information Distribution”  
Asanobu Kitamoto, National Institute of Informatics / CODH
- “JST's Activity on the Promotion of the Open Science”  
Yasushi Ogasaka, Japan Science and Technology Agency
- “Using Data Licensing in Materials Science - a Library Viewpoint”  
Chie Onodera, National Institute for Materials Science
- “Idea, Reality and Feasibility of Research Data Sharing: the Survey on Earth Environmental Research Infrastructure”  
Masafumi Ono, Earth Observation Data Integration & Fusion Research Initiative (EDITORIA), the University of Tokyo
- “Survey and Planning of Information Services on Research Data”  
Ikki Ohmukai, National Institute of Informatics
  - “Group A: Planning of the ‘Institutional Research Information Integrated System (IRIIS)’”  
Shunichi Tamura, Shiga University of Medical Science Library

-“Group B: Planning of the ‘Open Data Enhancing Network system - ODEN’”

Shigetoshi Kajiwara, Hokkaido University Library

- “Introduction to the RDM Training Tool Developed by the RDM Task Force of Institutional Repository Committee of Japan”

Koichi Ojira, The University of Tokyo Library System



SPARC Japan NewsLetter provides activity and seminar reports including outline, program with speakers' introductions and their outlines, attendee feedback, and afterword.

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### ■ SPARC Japan Activity Reports

#### SPARC Japan Governing Board

Please see materials of SPARC Japan Governing Board on our website:

<http://www.nii.ac.jp/sparc/about/committee/>



### ■ SPARC Japan Seminar Reports

The 1st SPARC Japan Seminar 2016

#### “Roads to Open Access for Japan”

Friday, September 9, 2016: National Institute of Informatics  
12th floor Conference Room (Attendees: 119)

In this seminar, we discussed how we should act for OA in Japan and how we can deal with the gold OA and retrospectively think of the green OA, with those of practitioners and researchers who are interested in OA movement in Japan.

See the SPARC Japan website for handouts and other details

(<http://www.nii.ac.jp/sparc/en/event/2016/20160909en.html>).



#### Outline



As a response to the “serials crisis” caused by the chronic subscription cost increases of scholarly journals, Japanese university libraries have formed a consortium for electronic

resources and signed up the Big Deal of the scholarly journals, in parallel have led an open access movement over institutional repositories, and recently have been implementing open access policies of their institutions.

The present well-recognized open access methods are two ways. One is so-called the green OA (open access) in which, against the publishers' subscription based and access controlled journals, authors or institutional staff store the copy or author version of the articles written by the authors of their institutions in institutional repositories and make a free access of them. The other is the gold OA in which authors pay publishers APC (article processing charges) for open access publishing from originating journal sites.

After the UK government announced the acceptance of Finch report in 2012 that will make all-publicly funded research in the UK open access via gold OA journals, several amount of bipolar debates on the green OA versus the gold OA arise in the EU countries. In the UK, Jisc (formerly the UK Joint Information Systems Committee) promotes changing hybrid journals that consists of both subscription based and APC based business models to gold OA, and made some pilot agreements with publishers of hybrid journals to develop the offsetting systems to cap the total amount of expenditures of institutions. The Netherlands VSNU (The Association of Universities in the Netherlands) renewed its subscription to a bundle of 2,000 paywalled journals from the publisher Springer, but with terms that made papers by corresponding authors at subscribing Dutch universities OA, for no extra charge, and made a similar agreement with Elsevier. The European Commission announced the launch of an 'Open Science Policy Platform' with a remit that includes investigating how subscription publishers can best transition to OA. In a particular research field, the high-energy physics community formed a consortium SCOAP<sup>3</sup> (Sponsoring Consortium for Open Access Publishing in Particle Physics) to make a business model in which major disciplinary journals are transitioned to gold OA. However, an opinion leader of OA and a promoter of self-archiving, Stevan Harnad expressed a warning of blindly devotion to the gold OA among scholarly communities. COAR (Confederation of Open Access Repositories) also announced the statement of the same alert jointly with UNESCO. Moreover, a variety of stakeholders are blogging their opinions to express their thought of warning on imminent transition to gold OA.

Along with these events of OA, how should we act for OA in Japan? Since we have been deeply surrounded with substantial amount of journals originating from European countries and US, we cannot ignore the OA movement. As for Japanese academic community, urgently we have to discuss about how we can deal with the gold OA and retrospectively think of the green OA. In this seminar, those of practitioners and researchers who are interested in OA movement in Japan are welcome to get together and discuss on the topic.

## Presentation Abstracts and Speakers

### Two Roads to Open Access Revisited: Green and Gold

**Syun Tutiya (National Institution for Academic Degrees and Quality Enhancement of Higher Education)**



Since the Budapest Declaration it has become common knowledge that there are two approaches to open access for scientific research results: the green path and the gold path.

Initially, the gold path was not readily accepted because it seemed like a simple publication model where the costs were born by the researcher, while serious attempts were made to realize the green path, which should have destroyed the existing parasitic relationship with publishers using institutional repositories. However, in the ten or so years since the declaration, the inefficiency of the latter path has been confirmed. At the same time, understanding has been gained about the sustainability of programs under the former. Therefore, if there is a strong interest in making open access a reality, we are now at a stage where we must discuss the end goal of the gold path. This lecture takes a closer look at the possible final goal of the gold path by describing the transformation of the whole process behind distributing scientific information involving the intermediary

providers of information such as publishers and libraries, the national assistance systems that fund the implementation of research, and the position of research itself within society.

#### Profile

Tutiya taught philosophy and cognitive science at Chiba University beginning in 1982 and was concurrently appointed as director of the Chiba University Library in 1998, which marked the beginning of his involvement in the library community. Afterwards, Tutiya continued to engage in activities such as price negotiations for e-licensing through consortia copyright, negotiations with rights holders and publishers, and the promotion of institutional repositories and open access together with libraries and librarians. In 2011 he was transferred from Chiba University to the National Institution for Academic Degrees and University Evaluation (currently, the National Institution for Academic Degrees and Quality Enhancement of Higher Education), where he has supported the institution's various programs while studying and researching higher education and quality assurance.

### Flipping Cash Flow for Scholarly Journals:



#### Report of the Preliminary Results of the Survey Conducted Jointly by JUSTICE and SPARC Japan

**Koichi Ojira (Japan Alliance of University Library Consortia for E-Resources (JUSTICE) / The University of Tokyo Library System)**



Up to this point the Japan Alliance of University Library Consortia for E-Resources (JUSTICE) has negotiated subscription fees with

publishers, but given recent advancements in gold OA there is a growing need to negotiate the total cost including APCs. JUSTICE conducts a survey of the contractual situation of its member libraries every year, and it covers the expenditures each library pays out for

subscription fees. However, negotiations on total costs require not only subscription fees, but also the actual situation of APC expenditures. On the other hand, at Berlin 12 in 2015 a proposal was made to shift subscription fees to APCs and adopt the OA model on a worldwide scale. Given this situation, JUSTICE and the governing board for SPARC Japan established a joint investigative team in 2015 and set up an initiative to grasp the actual situation of Japanese researchers' publishing papers and the amount of APC payments. This lecture provides a report on the activities of this investigative team, a summary of

the data tabulated to date, and contributes to discussions about future strategies for open access.

### Profile

General Manager, the University of Tokyo Library System from April 2015. He started his career as a librarian at the Nagoya University Library in January 1983 and has worked for Tokyo Institute of Technology Library, National Diet Library, Chiba University Libraries, National Institute of Informatics, and the University of Tokyo Library System.

## Converting Scholarly Journals to Open Access in SCOAP<sup>3</sup>

**Jun Adachi (National Institute of Informatics)**



The SCOAP<sup>3</sup> consortium has made major scientific journals in the field of high energy physics open access, making it possible for authors to publish their papers without cost

barriers. The European Organization for Nuclear Research (CERN) advocated this approach, and as an international consortium comprised mainly of more than 3,000 university libraries, funding agencies, and research institutions from 44 countries, SCOAP<sup>3</sup> has made ten journals open access beginning in January 2014. Phase I of these activities will last three years until the end of 2017, and currently the direction for continuing advancement into Phase II has been decided. This lecture takes a closer look at the background and current situation of SCOAP<sup>3</sup> as well as asks for assistance with regards to the difficult situation faced in Japan.

### Profile

In 1981 Adachi completed his doctoral degree at the school of engineering, the University of Tokyo. Afterwards he served as an assistant at the Information Technology Center at the University of Tokyo, assistant professor, and professor at the Center for Science Information. Today, Adachi works as a professor at the National Institute of Informatics, while also acting as professor at the Graduate School of Information Science and Technology at the University of Tokyo. Adachi is a member of the SCOAP<sup>3</sup> Executive Committee. Among other fields, he chiefly engages in the development and research on database systems, information searches, and text mining. Adachi is also a member of the Institute of Electronics, Information and Communication Engineers, Information Processing Society of Japan, The Database Society of Japan, as well as IEEE and ACM.

## Efforts for Open Access in University Libraries



**Masayuki Shoji (Waseda University Library)**



Initiatives for open access at university libraries have mainly been implemented through institutional repositories. From the perspective institutional repository

administrators, this lecture takes a look at libraries advocating the green approach by actively collecting papers appearing in commercial journals and libraries that have not been proactive in doing so.

### Profile

Shoji is the general manager of the Waseda University Library. After working in computer-related departments such as the Center for Informatics, Center for Information Systems, Science Information Section, and the Center for Media Networks, he served as manager of the Science Information Section, manager of the Science & Engineering Library, manager of the S. Takata Memorial Research Library, and manager of the general affairs section prior to becoming deputy general manager and then general manager.

## ‘What is the Best Journal for My Paper?’ Open Access Journals and Life Science



**Hidemasa Bono (Database Center for Life Science)**



Papers published in OA journals now have a greater chance of being seen thanks to the development of internet search engines. As a result, increasing numbers of papers are

submitted to gold OA journals such as the Public Library of Science (PLOS) and BioMed Central (BMC). Traditional paper journals now allow for the selection of either OA option. On the other hand, the required paper publication fees for OA are taken from research costs, which constrains spending on the reagents and consumables essential to testing. As such, these fees have become a presence that cannot be ignored when conducting research activities. The current situation is that researchers want their research

widely disseminated through publishing papers in OA journals, but funding is needed in order to do so. Based on actual experience, this lecture takes a closer look at trends in journal selection for papers written by life science researchers.

### Profile

After the initiation of FANTOM (Functional Annotation of Mouse) project at RIKEN, he joined the MEXT Integrated Database Project at Database Center for Life Science (DBCLS), which was established in Research Organization of Information and Systems (ROIS). In DBCLS, they launched the project TogoTV (an archive of tutorial videos expounding how to use biological databases and tools), and now he is involved in the technology development of database integration.

## Panel Discussion:

**Moderator: Kazuo Yamamoto (University of the Ryukyus Library)**



### Profile

General Manager, University of the Ryukyus Library. He has joined Institutional Repositories Promotion Committee under the Cooperation Promotion

Council which links between the National Institute of Informatics (NII) and university libraries, and so on. He has given his effort for encouraging communities in Japan throughout from the beginning of NACSIS-CAT and e-journal consortium to the latest expanding term of Institutional Repositories.

**Panel members: Syun Tutiya (National Institution for Academic Degrees and Quality Enhancement of Higher Education) / Koichi Ojio (Japan Alliance of University Library Consortia for E-Resources (JUSTICE) / The University of Tokyo Library System) / Jun Adachi (National Institute of Informatics) / Masayuki Shoji (Waseda University Library) / Hidemasa Bono (Database Center for Life Science)**



**From the SPARC Japan Secretariat** We have started phase 5 from 2016, and the basic policy is to promote open access and to encourage further distribution of scholarly information and academic resources, cooperating with domestic and international OA initiatives and organizations on the matters concerned. To promote open access, we seek to continue advocacy activities, pointing to enhance a sense of participation of librarians and researchers for encouragement of distribution of scholarly information and academic resources, while strengthening much more working with the Institutional Repositories Promotion Committee and [the Japan Alliance of University Library Consortia for E-Resources \(JUSTICE\)](#) under the Cooperation Promotion Council which links between the National Institute of Informatics (NII) and university libraries.

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## Attendee Feedback

(people affiliated with university libraries)

- Considering the increasing number of papers and advancements in gold OA, I thought that APC payments would only continue to increase. However, if the proposal brought to JSPS comes to fruition, I believe that it will limit the volume of papers while maintaining a certain level of quality. I was also reminded of the importance of the international connections sustained by librarians.

- With all the candid talk about how there is no longer a need for libraries and that green OA is no longer feasible I felt that we must consider what we should do in the future.

- Going forward I believe solutions will be discussed at SPARC Japan, but I was concerned hearing in the panel discussion that we should ask publishers in order to understand the current situation of APCs. Although it was interesting on

the day of the seminar to hear about the retribution directed at publishers, if SPARC Japan seeks to better understand APCs in detail I do not think it is good strategy to rely on numbers provided by publishers since they are the counterparty in negotiations. Even if it is difficult, universities should try to ascertain APCs by themselves, and I believe it would be reasonable for accounting to understand APCs rather than librarians.

(people affiliated with business/others)

- Points such as redirection, flipping, and the difficulty of quantitatively understanding APCs were clarified.

- The seminar provided an opportunity to understand how social networking service (SNS) are being utilized in research and to consider how they should be involved in research in the future.

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## Afterword

😊 With a focus on the three key people who effectively drove OA activities in Japan for many years, this seminar was planned to crystallize the need to question whether green OA or gold OA is the best approach today. Steady progress is being made with contract negotiations involving journal papers, while the unfamiliar word of ‘open science’ is being thrown about, and the working level side is without a doubt at a point where it is now or never. How will university libraries utilize the institutional repositories they have built up? How should universities deal with the framework of gold OA? I believe that the people in charge were awakened to the fact that these questions should be carefully considered.

Kei Kurakawa  
(National Institute of Informatics)

😊 Following last year, I was once again placed in charge of the Planning Working Group for the SPARC Japan Seminar. I once again reaffirmed the relationship between green OA and gold OA as well as approaches to both. On the planning side this proved to be a very interesting theme. I believe it was a very meaningful seminar based on the large number of attendees, as well as those who listened in on the simultaneous online streaming.

Shigetoshi Kajiwaru  
(Hokkaido University Library)

😊 As a researcher who promoted OA himself, I spoke about the topic of life science researcher tendencies in selecting journals for their papers and the meaning this holds for OA. During my talk I introduced examples of journals to which papers were submitted, but people from the library community apparently do not normally hear about these stories, so it appeared to be good reference for them. I hope to make even greater efforts on further promoting open data going forward.

Hidemasa Bono  
(Database Center for Life Science)

😊 The SPARC Japan Seminar provided another good opportunity to consider the direction and potential of open access in the future. I believe that discussions can be advanced through the planning working group by considering green and gold as mutually complimentary concepts and not opposing concepts. While it is not essential to express green and gold as ideal or realistic, when thinking about the realization, continuation, and development of open access, as a member of the library community I felt the need to firmly accept the message given to librarians by Prof. Adachi in his stirring pep talk.

Ayuko Nishiwaki  
(Meiji University Library)





SPARC Japan NewsLetter provides activity and seminar reports including outline, program with speakers' introductions and their outlines, attendee feedback, and afterword. This issue reports also surveys of overseas trends since 2015.

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### ■ SPARC Japan Activity Reports

#### SPARC Japan Governing Board

Please see materials of SPARC Japan Governing Board on our website:

<http://www.nii.ac.jp/sparc/about/committee/>



#### Surveys of Overseas Trends

We have aimed at “Gathering basic information regarding open access” which is one of goals in Phase 4 and 5 of SPARC Japan, and specifically surveys of overseas trends have been going ahead. We have participated in some international conferences and carried out field surveys at the related institutions overseas promoting open access strongly as below.

- Report of the Survey on Research Data Management: IDCC, DCC Workshop, and the Field Survey at the University of Southampton  
Hayahiko Oozono (Okayama University) and Yui Nishizono (Kagoshima University) participated as members of Institutional Repositories Promotion Committee (2015/2/8-17).  
<http://id.nii.ac.jp/1280/00000083/>
- Report of COAR-SPARC Conference 2015 and the Field Survey at the University of Minho  
Taro Misumi (Chiba University) and Yui Nishizono (Kagoshima University) participated as members of Institutional Repositories Promotion Committee (2015/4/14-17).  
<http://id.nii.ac.jp/1280/00000107/>

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- Report of the Survey on Metadata Management of OpenAIRE  
Yutaka Hayashi (Kyushu University) and Kenichi Misumi (Hokkaido University) participated as members of Institutional Repositories Promotion Committee (2016/2/20-27).  
<http://id.nii.ac.jp/1280/00000204/>
  - Report of the 11th International Digital Curation Conference  
Yasuyuki Minamiyama (National Institute of Polar Research) participated as a member of Institutional Repositories Promotion Committee (2016/2/22-25).  
<http://id.nii.ac.jp/1280/00000203/>
  - Report of the Research Data Alliance Seventh Plenary Meeting  
Taro Misumi (Chiba University), Yasuyuki Minamiyama (National Institute of Polar Research), Toshihiro Aoyama (National Institute of Technology, Suzuka College), and Tomoko Kagawa (Ochanomizu University) participated as members of Institutional Repositories Promotion Committee (2016/3/1-3).  
<http://id.nii.ac.jp/1280/00000202/>
  - Report of CRIS2016 & OR2016  
Yutaka Hayashi (Kyushu University) participated as a member of Institutional Repositories Promotion Committee (2016/6/8-16).  
<http://id.nii.ac.jp/1280/00000205/>

## ■ SPARC Japan Seminar Reports

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The 2nd SPARC Japan Seminar 2016 (Open Access Summit 2016)

### “Promoting Openness of Research Data: Incentive and Data Management”

Wednesday, October 26, 2016: National Institute of Informatics  
12th floor Conference Room (Attendees: 112)

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In this seminar, we tried to study how the openness of scientific research data in Japan could be promoted and focused on incentives and data management through cooperation between librarians and researchers. We discussed how it could be made real to put data management in the workflow of research and operation, while including specific activities.

See the SPARC Japan website for handouts and other details

(<http://www.nii.ac.jp/sparc/en/event/2016/20161026en.html>).





## Outline



The Japanese government has found an importance of "Open Science" and is now going to promote its associated activities in Japan. In the end of March 2015, a report entitled "Promoting Open Science in Japan" was published by the expert panel on Open Science, based on Global Perspectives, Cabinet Office. According to the report, research data should be made openly available, although they are subject to constraints that ensure ethical, legal, and commercial protections.

To accelerate the activities related to open science, universities, public research institutes, and data providers are expected to play an important and active role. In actual, however, they are not so actively working because no intrinsic motivation is induced and no effective system for research data management (RDM) is developed.

In addition to the incentive that open research data can provide new insights and values, therefore, another incentive is needed for researchers and research community that they can gain professional recognition and rewards for their labors to make research data open. Regarding RDM, libraries and institutional repositories fundamentally function in data preservation, management, and publishing. If they cooperate with researchers in the RDM workflow, that possibly solves the aforementioned problems and accelerates the open science movement in Japan.

In recognition of this situation, this seminar reports an actual corporation between libraries and research groups as well as a cutting-edge institutional repository. These reports will lead attendees to consider how the openness of scientific research data in Japan can be promoted through cooperation between librarians and researchers.

## Presentation Abstracts and Speakers

### Incentives and Adoption Barrier of Open Data in Biomedical Research

**Takeru Nakazato (Database Center for Life Science)**



In the field of medical biology, since the 1970's, bibliographic information is stored at MEDLINE, base sequence information at Genbank, and this information has been

widely available to anyone ever since the internet gained prominence. In addition, data is accumulating in shared databases being managed by the US's NCBI, Europe's EBI, and Japan's DDBJ that include gene expression and chemical compound information. What is behind this natural accumulation of life sciences data is that publishers have made it mandatory for researchers to register experimental data in shared databases as part of the rules for manuscript submission. With recent equipment developments and cost decreases there is increasing research on

diagnostics and with human research subjects. There are concerns that open data will lead to breaches of personal information.

#### Profile

Project associate professor in Database Center for Life Science (DBCLS), Research Organization of Information and Systems (ROIS) since 2011. Ph.D. in Information Science from Osaka University. M.Sc. from Tokyo Institute of Technology. He worked as a software developer for analyzing large scale data using document information in Bio-IT Division, NEC Corporation. Since 2007 in DBCLS, he has been engaged in operating a web-based search engine for public NGS data of public database in life science, collaborating with DNA Data Bank of Japan (DDBJ) and developing the platforms to interpret large scale data biologically.

### Opening of Old Japanese Photograph Image Data and Roles of Academic Libraries

**Kenichi Shimoda (Nagasaki University Library)**



Nagasaki University Library since 1988 has been collecting old Japanese photographs taken at the end of the Edo period and during the Meiji era that made their way mainly to the US and Europe, and has worked since 1998 to make the Japanese Old Photographs in Bakumatsu-Meiji Period database of photographic imagery publically available on the internet. It is currently one of the largest collections and databases in Japan. This presentation introduces the characteristics of old Japanese photographic materials; how to set up a database and repercussions of

making it publically available; the different approaches towards collections by researchers, curators, and librarians; and forming partnerships with museums and other related institutions. I hope it will be of help in considering the role of university libraries in making research data open.

#### Profile

Chief of Academic Information Service Section, Nagasaki University Library since July 2014. He started his career at the library in 1987 and worked as librarian, operating its library system, introducing e-journals and its institutional repository, and organizing and digitizing the collection of old photographs in Japan and opening to the public.

## Interim Report of Creating Metadata for Upper-Atmospheric Observational Data by Librarian

**Yasuyuki Minamiyama (National Institute of Polar Research)**



This report looks at the progress of an experiment in creating metadata from measurements in the field of upper atmospheric studies as an example of cooperation between researchers and librarians. This experiment looks at whether the metadata operational skills held by university librarians are applicable in creating metadata in specific fields. By verifying applicability, we will explore future possibilities in 1) decreasing the burden on researchers by assisting with the creation of metadata, 2) offering the librarian's knowledge of distribution,

meaning providing specific incentives, and 3) the management of research data by librarians. I hope that comments from a wide variety of participants will help in considering how collaboration should be conducted in the future.

### Profile

Librarian in National Institute of Polar Research since 2005. He participated in the 49th Japanese Antarctic Research Expedition from 2007 to 2008, and worked for Komaba Library, the University of Tokyo from 2011 to 2014. He has also joined Institutional Repositories Promotion Committee since 2014 and is a project working group member for SPARC Japan seminars in 2016.

## Research Data Management in Japanese University

**Takaaki Aoki (Institute for Information Management and Communication, Kyoto University)**



Including contributions towards open science, there is a strong call for universities and research institutions to streamline data management for a number of reasons, such as for the creation of new knowledge, returning the results of research to society, and the maintenance of fair research activities. Obtaining research data, storage, publication rules, that is to say the establishment of research data management has become mandatory in recent years in Western countries, but it is still in the initial stages in Japan and each university is fumbling around in the dark. In this lecture, I will introduce the position of research data management and the

efforts made by universities in Western countries, as well as discuss the future developments of research data management in Japanese universities.

### Profile

Associate Professor since March 2016. Ph. D. in Engineering. He had worked as a researcher for some research projects since 2000, focusing on simulation of nano scale processing and instrumentation technology. In parallel as a lecturer in Graduate School of Engineering from 2007, he took part in developing information security and infrastructure, and analyzing data in the Center for Information Technology. Currently he is engaged in planning, designing and operating ICT system for supporting researchers and research projects in the university.

## Domestic and International Activities on Research Data Utilization

**Hideaki Takeda (Research Data Utilization Forum / National Institute of Informatics)**



In recent years, there has been increasing interest in Japan and overseas in the use and application research data. This lecture provides an overall understanding of the course of events in open science framed in the use and application of research data. On that basis, I will provide a broad overview of both domestic and international movements. The Japan Link Center, which is Japan's DOI RA (registration agency), took advantage of

the data DOI experimental project to create multidisciplinary linkages, and this led to the launch of the Research Data Utilization Forum. Internationally, the RDA (Research Data Alliance) began their activities four years ago, consists of multidisciplinary linkages, and involves funders, research institutions, and publishers, among others. I will introduce some of their activities.

### Profile

[http://www.nii.ac.jp/en/faculty/informatics/takeda\\_hideaki/](http://www.nii.ac.jp/en/faculty/informatics/takeda_hideaki/)

## Panel Discussion:

**Moderator: Kei Kurakawa**

(National Institute of Informatics)

### Profile

<http://researchmap.jp/kurakawa/?lang=english>



**Panel members: Takeru Nakazato (Database Center for Life Science) / Kenichi Shimoda (Nagasaki University Library) / Yasuyuki Minamiyama (National Institute of Polar Research) / Takaaki Aoki (Institute for Information Management and Communication, Kyoto University) / Hideaki Takeda (Research Data Utilization Forum / National Institute of Informatics)**

## Attendee Feedback

(people affiliated with university libraries)  
 – How do we search data in each publically available repository? Is it really an extension of cataloging? In contrast to printed material, research data shows the specificities or idiosyncrasies of the field and is not something that anyone can look at and understand. What incentive does a university running a repository have?  
 – The overall gist of the seminar is that researchers feel it is a bother to work towards making their research data

publically available. They are busy with their own research and education, and their motivation for making research results and collected data publically available is decreasing. Many people talked about thinking of effective strategies to counter this. Although the topic strayed from the original topic of the seminar, it was ultimately useful to hear what many researchers (university professors, etc.) really thought.

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(university researcher)

– I came to understand better the role of librarians.

(person in university)

– I could listen with interest about data that differs from what I deal with in my own field. The resources (people) of libraries are limited, and I thought it necessary to create a new department to help with creating

metadata.

(others)

– It got me thinking about the various roles and incentives of researchers, curators, librarians, and others.

– I was able to gain perspective on what we are to do as institutions and what issues remain.

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## Afterword

😊 This was the first SPARC Japan Seminar for which I was in charge of planning as chief. I usually do research and teach as a university professor while running a data center for research data. With this as a background, I was constantly thinking, “In order to push ahead with open science, we have to provide incentives for scientists collecting data and scientists managing data, among others.” The purport of holding this second seminar was rooted in this thought. Through brainstorming in the planning stage, by providing incentives to researchers, the role of those working at libraries and institutional repositories becomes clear, and through this seminar, I was able to make various discoveries such as the possibility of there being varying definitions of ‘incentive’. Going forward, in pushing ahead with open science in Japan, rather than focusing on concepts and ideals, I would like to bring in discussions from the perspective of incentives. I would like to thank the many people who participated in this seminar.

Masahito Nosé  
(Graduate School of Science,  
Kyoto University)

😊 Moving beyond the ebb and flow of popular research fields, for the researchers that have spent many years and months creating and managing their data, creating incentives is of utmost importance for getting them to care about sharing their research data. The creation and management of integrated data produced by research is labor-intensive, and the findings acquired through observation must be

verified. Regardless, no new incentives to share research data are coming to light. Incentives for researchers are embedded in the culture of academia. The system is established and there is no hint of change. We are not in the midst of trying to bring about reforms through geopolitics.

Kei Kurakawa  
(National Institute of Informatics)

😊 I was in charge of disseminating seminar content information through Twitter. At the venue, it was Open Access Week and there was heated discussion on pushing ahead with making research data open from the perspective of incentives and data management, but it was unfortunate that I could not satisfactorily communicate what was happening. Since the content covered is publically available, at future conferences I hope to be more able to communicate the contents in real time.

Hidemasa Bono  
(Database Center for Life Science)

😊 At this seminar, I took the stage as one of the planners. In the planning stage we talked intensely on the topic of the differences in standards of conduct between researchers and librarians, but I regret not being able to really introduce this topic on the day of seminar. I hope that through cooperation between these two groups with different ways of thinking and goals (perhaps) that science will be invigorated and become more open.

Yasuyuki Minamiyama  
(National Institute of Polar Research)





SPARC Japan NewsLetter provides activity and seminar reports including outline, program with speakers' introductions and their outlines, attendee feedback, and afterword. This issue reports also the NII Practical Training at CERN.

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#### NII Practical Training at CERN

We have aimed at “Expanding the scope of activities for open science” which is one of goals in Phase 4 and 5 of SPARC Japan. Specifically we concluded the Collaboration Agreement for the development of advanced information services and for the benefit of the Japanese and global High-Energy Physics community with the European Organization for Nuclear Research (CERN) and the High Energy Accelerator Research Organization (KEK). To achieve this purpose, a practical trainee worked at CERN in 2016.

- Data Curation of the database for High-Energy Physics (NII Practical Training)

Based on the Collaboration Agreement between CERN, KEK and NII, Akemi Omura (Kyoto University Library) worked at CERN (2016/3/11-2017/3/2).

<http://www.nii.ac.jp/hrd/ja/jitsumu/h28/index2.html>

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## ■ SPARC Japan Seminar Reports

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The 3rd SPARC Japan Seminar 2016

### **“Future Standard Infrastructure Supporting Creation of Scientific Knowledge: Reconsidering Open Science”**

Tuesday, February 14, 2017: National Institute of Informatics  
12th floor Conference Room (Attendees: 118)

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In this seminar, we summarized this year's seminars and studied how open science could be in the future and the direction from various aspects. The reports of the RDM training tool and a workshop studying research data gave us some tips to plan and put into practice for open science.

See the SPARC Japan website for handouts and other details  
(<http://www.nii.ac.jp/sparc/en/event/2016/20170214en.html>).

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#### **Outline**



The theme of SPARC Japan Seminars throughout the year 2016 is “Articles and Data Distribution in the Trend “Open Science” – Future Standard Infrastructure Supporting Creation of Scientific Knowledge”. On this theme, in the 1st SPARC Japan Seminar 2016 “Roads to Open Access for Japan”, we discussed the relation between the green OA and the gold OA and their roles. In conclusion, we recognized that we should grasp the amounts of APC (article processing charge) which researchers in Japan pay and develop the SCOAP<sup>3</sup> model.

In the 2nd SPARC Japan Seminar 2016 (Open Access Summit 2016) "Promoting Openness of Research Data: Incentive and Data Management", we studied how we could provide incentives for researchers, such as data citation, data journals, and data ownership. Moreover we discussed specific measures of research data management to support the system of these incentives, such as the balance between costs and gains to open research data and rewards for research data management, and so on.

Based on the examination above, we will summarize the whole seminars this year. We try to think over new standard infrastructure supporting creation of scientific knowledge beyond “Open Science”, reconsidering it multidirectionally: something that has to be done, should be done, could be done for profits, and cannot avoid being done.

\* standard infrastructure: infrastructure supporting academic research (creating scientific knowledge) is made through

bottom-up activities in many cases on the constructing process, and it is eventually placed as environment of academic research by users unconsciously. This process is just occurring at Internet scale and activities to establish standards of scholarly environment are born over the borders of regions and scientific fields. In this seminar we define the standard which is given through these activities as “standard infrastructure”.

## Presentation Abstracts and Speakers

### Open Science in a European Perspective



#### Ron Dekker (European Commission (DG Research & Innovation))



Open Science is high on the political agenda. During the Dutch Presidency of the European Council in 2016 the 28 Member States adopted Competitiveness

Council Conclusions on

Open Science, and there was a Presidency Conference on Open Science that resulted in the Amsterdam Call for Action on Open Science. The European Commission has set up a European Open Science Agenda and installed a number of Expert Groups on topics like Open ScienceCloud and Altmetrics. Several European countries have established national open science policies and strategies.

Other stakeholders, like universities, publishers, and funding organizations, are also elaborating on Open Science activities, including Citizen Science. At the same time, major changes in for example the ways of scholarly communication are hampered by first-mover disadvantages, or require major redistribution of means.

So where are we standing now? How could we induce change in the Open Science Ecosystem? How can we catalyse the transition to open access with respect to publishing? What would be needed to stimulate sharing of research data?

This talk will give a European overview, discuss these questions and open up for discussion on possible solutions. It will focus on publications and research data,

although other aspects of open science and connecting science to society at large - including innovation - will also be touched upon.

#### Profile

Ron Dekker studied econometrics and started his career in labour market research at Maastricht University. In 1995 he moved to Tilburg University where his research focus shifted to data management. The latter was his starting point at the Netherlands Organization for Scientific Research (NWO): in 1997 he became the head of the Data Agency. Later he worked as a team coordinator at the Social Sciences Division and at the Central Programmes and Institutes Department. In 2007 he was appointed Director Institutes of NWO.

In 2013 he was seconded to SURF, the Dutch IT-innovation organization for Higher Education & Research, as acting director and in 2014 he was seconded to the Ministry of Education, Science and Culture as project leader Open Science in preparation for the Dutch EU Presidency. As of 2016 he is Seconded National Expert on Open Science at the European Commission, Directorate-General Research & Innovation. In March 2017 he will start as the Director of CESSDA, the Consortium of European Social Science Data Archives. CESSDA is one of the large infrastructures in Europa (a so-called ESFRI Landmark) and has its main office in Bergen, Norway.

## Deep Learning and Open Science – Extreme Speed-up of Scientific Research Triggers Shift Toward Friction-Less Information Distribution



**Asanobu Kitamoto (National Institute of Informatics / CODH)**



We have been studying the value of open science in three dimensions, namely utility, transparency and participation, but with difficulty in persuading others on how these values contribute directly to scientific research. Hence we introduce a new dimension called “speed” to re-consider the value of open science. A hypothesis behind this proposal is that when the speed of research becomes extremely high, information distribution is forced to follow the same speed, hence it evolves into a structure without “friction” that speeds down the distribution, and as a result, scientific research is directed toward openness. We claim that this hypothesis is best verified by the field of “deep learning,” which is part of artificial intelligence and machine

learning. What is actually happening in this field? It is not clear how lessons from this exceptional field could be generalized, but we believe that the analysis of the movement in this field suggests one possible future of open science.

### Profile

Dr. Asanobu KITAMOTO earned Ph.D. in Engineering from University of Tokyo in 1997. He is now associate professor of National Institute of Informatics (NII), and also the director of Pre-Center for Open Data in the Humanities (CODH) in Research Organization of Information and Systems (ROIS). He started his research in the field of image data analysis, and later extended his research to data-driven science for humanities, earth science and disaster mitigation. He is also interested in open science and trans-disciplinary collaboration.

## JST's Activity on the Promotion of the Open Science



**Yasushi Ogasaka (Japan Science and Technology Agency (JST))**



Since JST announced its policy on open access to research article in 2013, JST has worked on the promotion of public access to and circulation of JST-funded research results. In addition to research articles, JST has been working on research data as well; JST hosted the 9th RDA Plenary Meeting in Tokyo in 2016 and data management plan (DMP) was introduced for some research projects funded by the Strategic Basic Research Programs. In this presentation, we report the current status of the activity on promotion of Open Science.

### Profile

Dr. Ogasaka graduated from Gakushuin University, Tokyo, Japan and received Ph.D. in physics. His research area was high energy astrophysics and development of X-ray telescopes. After his experience as Research Fellow at NASA/GSFC and Nagoya University, he was appointed as Assistant Professor of Department of Physics, Nagoya University in 2000. He joined JST in January 2009. He has been working on the management of several public funding programs such as Strategic Basic Research Programs, Technology Transfer Program and so on. Since Oct. 2015, he has been in charge of information services such as journal platform (J-STAGE) or researcher database (researchmap) as Director of Department of Databases for Information and Knowledge Infrastructure.

## Using Data Licensing in Materials Science - a Library Viewpoint



**Chie Onodera (National Institute for Materials Science)**



Licensing is important for using data because data does not have copyright. I will present the concept of using data licensing based on three library seminars held by the National Institute for Materials Science in 2016. I will also introduce specific examples and discuss the role of libraries in licensing.

### Profile

Chie Onodera is a librarian at the National Institute for Materials Science (NIMS). She had previously worked at university libraries. She is in charge of general library operations including communication of research information.

## Idea, Reality and Feasibility of Research Data Sharing: the Survey on Earth Environmental Research Infrastructure



**Masafumi Ono (Earth Observation Data Integration & Fusion Research Initiative (EDITORIA), the University of Tokyo)**



Generally, research data sharing is a good idea to stimulate the advancement of science. This idea is also acceptable for most of stakeholders including researchers, policy makers, funders and

citizens. But, it is the current reality that a lot of research data are not shared yet. Why we meet such gap between idea and reality of open science? Because we tried to reveal the barrier, we conducted a survey on earth environmental research infrastructure. We also propose some possible actions to enforce open science.

### Profile

Masafumi Ono is a project researcher of Earth Observation Data Integration & Fusion Research Initiative (EDITORIA), the University of Tokyo. Currently, Ono works in the project of "Program of developing the earth environmental information platform". Previously, he has taken part in a working group of ISO/TC211 geographic information standards, task teams of GEO (Group on Earth Observations) or a work package of Belmont Forum E-Infrastructures and Data Management Collaborative Research Action.

## Survey and Planning of Information Services on Research Data



**Ikki Ohmukai (National Institute of Informatics)**



National Institute of Informatics hosts a workshop for cooperative problem solving by librarians from various organizations. In this year, eight participants

investigated and designed the information services for research data management.

This presentation describes the outline, purpose and outcome of the workshop.

### Profile

Ikki Ohmukai received his Ph.D. degree in informatics from the Graduate University for Advanced Studies in 2005. He joined National Institute of Informatics in 2005 and has been an associate professor since 2009. His research interests are the semantic web, social media and open data.

### Group A: Planning of the "Institutional Research Information Integrated System (IRIIS)"



**Shunichi Tamura (Shiga University of Medical Science Library)**



Our group constructed a system which enables an institution to easily manage its research information all together, and named it IRIIS (Institutional Research Information Integrated System). In the future, if the system becomes a standardized model and the widespread use, it is expected that more

institutions can work on their research data management easily.

#### Profile

In 2013, he started his career at Shiga University of Medical Science Library as a librarian. He takes charge of book accession and managing the institutional repository. JMLA Health Sciences Information Professional, Basic. A participant of the workshop of academic information system held by NII in 2016.

### Group B: Planning of the "Open Data Enhancing Network system - ODEN"



**Shigetoshi Kajiware (Hokkaido University Library)**



As Group B, we suggested on idea to construct an open data metadata database which is called "Open Data Enhancing Network system - ODEN". It enables us to search an open data on one-stop by centralizing metadata of scattered open data. In this presentation, we introduce the concept and outline.

#### Profile

Since 2014 he has belonged to Hokkaido University Library (the main library). He is in charge of system administration in the academic system division, and responsible for library information system and network management and institutional repository. A member of SPARC Japan Seminar Planning WG in 2015 and 2016.

### Introduction to the RDM Training Tool Developed by the RDM Task Force of Institutional Repository Committee of Japan



**Koichi Ojiro (The University of Tokyo Library System)**



In these days, world-wide research funding agencies have issued policies which require research data to be preserved and shared among researchers. In order to manage research data properly, not only researchers themselves but also supporting staff must learn skills regarding research data management. In this lecture, the RDM training tool developed by the task force of Institutional

Repository Committee of Japan is introduced.

#### Profile

General Manager, the University of Tokyo Library System from April 2015. He started his career as a librarian at the Nagoya University Library in January 1983 and has worked for Tokyo Institute of Technology Library, National Diet Library, Chiba University Libraries, National Institute of Informatics, and the University of Tokyo Library System.

## Panel Discussion:

**Moderator: Kazuhiro Hayashi (National Institute of Science and Technology Policy)**

### Profile

He has been in Scholarly publishing, in a wide variety of roles, for more than 20 years. At Chemical Society of Japan, he has worked successively as an Editor, a Production Manager, an E-journal Manager, and a Promotions Manager. Covering a broad range of roles in publishing, he is focused on scholarly communication through E-journals, and he has reconstructed and improved the way publishing is managed through his skills involving information technology. He now studies a Science for Science and Innovation Policy to give administrative people and policy makers some evidences for Science and Technology policy. His current main task is policy implication of



Open Science and Open Access, together with developing a new way to foresight ST trends. An expert member of the working party of Open Science for G7 Science and Technology Ministry meeting, also an expert member of the OECD/GSF project of Open Science.

**Panel members: Ron Dekker (European Commission (DG Research & Innovation)) / Asanobu Kitamoto (National Institute of Informatics / CODH) / Yasushi Ogasaka (Japan Science and Technology Agency (JST)) / Chie Onodera (National Institute for Materials Science) / Masafumi Ono (Earth Observation Data Integration & Fusion Research Initiative (EDITORIA), the University of Tokyo) / Ikki Ohmukai (National Institute of Informatics)**



## Attendee Feedback

(person affiliated with university library)

– The results of the questionnaire included in the presentation by Dr. Ono of the University of Tokyo were quite interesting.

(university researcher)

– Being able to listen to Prof. Kitamoto's lecture on the newest trends in deep learning was incredibly interesting. Mr. Dekker's presentation summed up nicely the current situation in Europe. The presentation by Mr. Ojio was practical and looks to be helpful. I would like to try using what was presented.

(person affiliated with business/libraries)

– I was surprised at how quickly information is becoming open.

(other library staff)

– Although I wondered what was up with



the open science and open data seminars and forums up to this point that have been far from becoming reality and talked about general concepts or ideals, I was able to listen to talks this time that are in line with what is actually happening on the ground and could feel positive about the future.

– There were a number of lectures that made me think that the former momentum of 'Go, go, open data!' had shifted towards limited sharing and limited openness, and I was quite skeptical until I heard what Dr. Ogasaka and Dr. Ono had to say in the panel discussion. However, after listening to what the final two speakers had to say about how open science and open data do not necessarily have to be negative and how restricted sharing should not be assumed, it really sank deeply into my mind how important it is to proceed in such a way that researchers embrace open data in a form that is satisfactory to them, take responsibility for the results of open access, and provide insights for the way forward. We must drop anchor and not be swept away by the momentum.

(others)

– The relationship between copyright and data became clear. I was able to grasp the concept of DMP through the specific examples that were introduced.

## Afterword

😊 I was able to successfully complete the important task of organizing and carrying out this 3rd SPARC Japan Seminar covering an entire year. I believe this success was made possible thanks to the collective efforts of the presenters, governing board members, secretariat, planning working group, and attendees. I would like to take this opportunity to express my gratitude to everyone involved. The SPARC Japan seminars are planned and held in cooperation with researchers and librarians. It is my hope that these seminars continue to incorporate various perspectives on the hot topics that concern the distribution of academic information.



Shigetoshi Kajiwaru  
(Hokkaido University Library)

😊 I was in charge of disseminating seminar content information through Twitter. 'Reconsideration' was a major theme and with our feet firmly planted on the ground I believe that we were able to 'reconsider' through a review of the more advanced current situation in Europe on topics such as data sharing, DMP, and licensing. Although I was in charge of planning, it was a nice side benefit to listen to the talks that interested me.

Wataru Ono  
(Tokyo Gakugei University)

😊 arXiv is a major battleground for the latest achievements in the fields of hierarchical learning and computer science, and I was surprised that program sources and results are released and cited within the timeframe of a single day. Although it may be something that is currently applicable in particular fields, the speed that powers the implementation of open science is one component that is worth keeping in mind. In addition, although the role that funding institutions play in open science looms large, I could understand that Japan is not alone in being unsure about realistic implementation policies/the formulation of evaluation axes since it is the same situation in the US and Europe. In the days to come we must think about policies that deeply involve the providers of data, namely researchers.

Masahito Nosé  
(Graduate School of Science,  
Kyoto University)

😊 This seminar that closes out the fiscal year built upon the first and second seminar's respective discussions on open access for research papers and the sharing of research data, explored what a new research platform would look like overall, and was a place to concretely think about what can be

done. From the vision of open science with a focus on Europe to making DMP compulsory and assistance in creating them, a wide range of topics was taken up, and although it was quite difficult to control discussion that included a flurry of frank opinions expressed by researchers, since this is highlight of SPARC Japan seminars I hope that it continues to be a place where conversations between various assembled stakeholders can take place.

Kazuhiro Hayashi  
(National Institute of Science and  
Technology Policy)

😊 I was in charge of disseminating information from this seminar through Twitter. This seminar was meant to be a culmination of the first and second seminars of this year, and although I thought that the conversations would start to converge, as cutting-edge topics came up again and again, I could feel once again the depth of the themes as well as the true feelings of those that participated. In this era of an increasing number of implementation examples coming to the fore in Japan, I look forward to developments in the coming fiscal year.

Yasuyuki Minamiyama  
(National Institute of Polar Research)

SPARC Japan (International Scholarly Communication Initiative)  
Annual Report  
FY2016  
(English Version)

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