

SPARC Japan

**(The Committee for the Promotion
of the Scholarly Communication)**

Annual Report FY2017

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Foreword

Since its launch in fiscal 2003, this program marked its 5th term's 2nd year in fiscal 2017. Its activities of the year will be summarized and reported herein.

In the 5th term, we focused on cooperation with international Open Access (OA) initiatives, and advocacy in Japan of OA and Open Science. As you may know, research activities have become a matter that cannot be discussed without international cooperation. Furthermore, in recent years, not only the optimization of scientific research and OA, which stemmed from the subscription price rise of academic journals as well as the development of science, but also Open Science activities, which in light of the arousal of innovation and Research Integrity, have come to be deeply related to research activities in Japan. Based on this situation, the promotion of the distribution of scholarly information and the creation of a sustainable mechanism have become significant issues.

Specifically, we promoted cooperation with international OA initiatives in fiscal 2017, such as arXiv.org and SCOAP³. With regard to arXiv.org, as in the previous fiscal year, Professor Takashi Hikihara, Director General of the Library Network at Kyoto University attended the Member Advisory Board meeting as a representative of the Japan Consortium, and made a proposal on and actively discussed cooperation with institutional repositories and other institutions. SCOAP³ is an international partnership project which aims to make peer-reviewed journal articles in the high energy physics field open access. Since some of the publications of the American Physical Society (APS) have become targets of this project since 2018, we have played the role of an organizer of participating institutions in Japan, and have published awareness advertisements in the journal of the Physical Society of Japan. Furthermore, to improve the quality of the information on papers in the high-energy physics field listing in "INSPIRE," a database provided by the European Organization for Nuclear Research (also known as "CERN"), we dispatched a university librarian using our practical work training system, so that the librarian could gain experience in curation at CERN.

As one of the advocacy activities, under the annual theme of "Shaping the Future of Open Access: Developing New Ideas from the Way That We Have Been," we held the SPARC Japan Seminar three times. As we held a lecture meeting and a panel discussion in each seminar, the first seminar aimed for librarians and researchers to share a perspective of how research data should be managed and distributed, and to discuss the new relationships of both parties that were created from the sharing; in the second seminar

to discuss future Open Access in anticipation of future issues, such as the contribution to the promotion of research, the establishment of sustainable business models, and securing the quality of research results, while looking back on the functions and transition of preprint servers; and in the third seminar to identify the direction in which the academic community should go by discussing the original states of science and academic study against the backdrop of digitalization in society at large and the change in the form of academic communication. In the third seminar, Heather Joseph, an executive director of SPARC North America, was invited and gave a lecture. In addition, we began relay distribution of videos of the seminar as a new trial. Thankfully, this relay distribution was received favorably, and we would like to continue this trial in the future.

It is important for these activities to be carried out continuously in cooperation with not only the Japan Alliance of University Library Consortia for E-Resources (JUSTICE) and the Open Access Japan Consortium for Open Access Repository (JPCOAR) but also research communities. I myself will resign as chairman at the end of this March. Taking this opportunity, I would like to express my sincere gratitude to the people who have supported this program, especially the members of the Planning WG who planned these seminars.

March 31, 2018



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 2017

Based on the Project plans indicated in 1.1, the following were implemented in fiscal 2017.

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.

Record of SPARC Japan Seminar 2017

1	<p>September 13, 2017 13:00-17:20 National Institute of Informatics</p> <p>【The 1st SPARC Japan Seminar 2017】 September 13, 2017</p> <p><u><i>"A New Relation Between Librarians and Researchers: From a Viewpoint of Management and Distribution of Research Data"</i></u></p> <p>https://www.nii.ac.jp/sparc/en/event/2017/20170913en.html</p> <p>[Moderator]: Masahito Nosé, Graduate School of Science, Kyoto University</p> <ul style="list-style-type: none">• Opening Greeting / Outline: Masahito Nosé, Graduate School of Science, Kyoto University• "Positioning of Research Data and the Expectations for University Strategy on Data Management" Keiko Kurata, Faculty of Letters, Keio University• "Scholarly Repository as a Bridge Between Researchers and Librarians" Takeshi Osawa, Institute for Agro-Environmental Sciences, NARO• "Institutional Support for Research Data Management and the Role of Libraries" Yui Nishizono, Kagoshima University / JPCOAR Research Data Task Force• "The Role of JPCOAR Schema in Future Scholarly Communication"
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	<p>Tomoko Kataoka, Ochanomizu University / JPCOAR Metadata Task Force</p> <ul style="list-style-type: none"> • "Introduction of Research Data Utilization Forum (RDUF)" <p>Hideaki Takeda, National Institute of Informatics / Research Data Utilization Forum</p> <ul style="list-style-type: none"> • Discussion: [[Moderator]]Masahito Nosé, Graduate School of Science, Kyoto University <p><u>Planning WG member(in alphabetical order)* Chief of a seminar</u> Takanori Hayashi (Japan International Research Center for Agricultural Sciences) Noboru Nakatani (Tottori University Library) Masahito Nosé*(Kyoto University)</p>
	<p>No. of participants: 60 (capacity: 60 people)</p> <p>Rate of using relay distribution of videos*: 286, No. of cases of using videos from the archive*: 312</p> <p>NewsLetter No.33 (December 2017) (Cf. Chapter 6)</p>
2	<p>October 30, 2017 11:00-16:40 National Institute of Informatics</p> <p><u>"Preprint and Open Access"</u></p> <p>https://www.nii.ac.jp/sparc/en/event/2017/20171030en.html</p> <p>[Moderator]: Hidemasa Bono, Database Center for Life Science</p> <ul style="list-style-type: none"> • Opening Greeting / Outline: Hidemasa Bono, Database Center for Life Science • "arXiv.org Next Generation -Its Opening and Strategy-" <p>Takashi Hikiyara, Director General of Library Network in Kyoto University / Representative of the NII Japan Consortia for arXiv.org</p> <ul style="list-style-type: none"> • "Sharing and the Future of Open Access" <p>Gregg Gordon, Managing Director of Social Science Research Network (SSRN)</p> <ul style="list-style-type: none"> • "Preprints in Chemistry" <p>Kounosuke Oisaki, Graduate School of Pharmaceutical Sciences, the University of Tokyo / Deputy-Head, Chem-Station</p> <ul style="list-style-type: none"> • "Case Examples of Preprint in Life Science Field and My Experience, and Introduction of TogoTV" <p>Hiromasa Ono, Database Center for Life Science</p> <ul style="list-style-type: none"> • Discussion: [[Moderator]]Hidemasa Bono, Database Center for Life Science <p><u>Planning WG member(in alphabetical order)* Chief of a seminar</u> Hidemasa Bono* (Research Organization of Information and Systems) Shigetoshi Kajiwara (Muroran Institute of Technology Library) Yoko Sasabuchi (Waseda University)</p>
	<p>No. of participants: 63 (capacity: 70 people)</p> <p>Rate of using relay distribution of videos*: 190, No. of cases of using videos from the archive*: 488</p> <p>NewsLetter No.34 (March 2018) (Cf. Chapter 6)</p>
3	<p>February 21, 2018 10:30-17:00 National Institute of Informatics</p>

	<p><u><i>"Beyond Open Science"</i></u></p> <p>https://www.nii.ac.jp/sparc/en/event/2017/20180221en.html</p> <p>[Moderator]: Kazuhiro Hayashi , National Institute of Science and Technology Policy</p> <ul style="list-style-type: none"> • Opening Greeting: Kazuhiro Hayashi, National Institute of Science and Technology Policy • Outline: Kei Kurakawa, National Institute of Informatics • "Really Understanding 'Open Science' -Its Beneficial Potentials, Its Fragility, Its Functional Performance Problems, and How NOT to Try to Fix Them-" <p>Paul A. David, Emeritus Professor of Stanford University</p> <ul style="list-style-type: none"> • "'Open Science" as Data - Driven Science Ecosystem - From a Viewpoint of Japan, and with Past Community Practices" <p>Yasuhiro Murayama, Natl. Inst. of Info. and Communications Technology (NICT) / ICSU-World Data System</p> <ul style="list-style-type: none"> • "Enabling Open Research" <p>Heather Joseph, SPARC North America</p> <ul style="list-style-type: none"> • "Research Lifecycle and the Support by Academic Libraries and Universities in Digital Era" <p>Keiko Kurata, Faculty of Letters, Keio University</p> <ul style="list-style-type: none"> • "Ideal Scholarly Communication Environment Provided by University Libraries in the Digital Age" <p>Midori Ichiko, Mita Media Center, Keio University</p> <ul style="list-style-type: none"> • Panel Discussion: [[Moderator]]Yasunori Fukagai, Graduate School of International Social Sciences, Yokohama National University <p>From Moderator:"Taking the Scientific Knowledge Seriously: A Consideration in the Era of Open Science "</p> <p><u>Planning WG member(in alphabetical order)* Chief of a seminar</u></p> <p>Kazuhiro Hayashi (National Institute of Science and Technology Policy)</p> <p>Shigetoshi Kajiwara (Muroran Institute of Technology Library)</p> <p>Kei Kurakawa* (National Institute of Informatics)</p>
	<p>No. of participants: 67 (capacity: 70 people)</p> <p>Rate of using relay distribution of videos*: 205, No. of cases of using videos from the archive*: -</p> <p>NewsLetter No.35 (October 2018) (Cf. Chapter 6)</p>
Total	<p>No. of participants: 190 (capacity: 200 people in total, average number of participants: 63)</p> <p>Rate of using relay distribution of videos*: 681, No. of cases of using videos from the archive*: 800</p>

1.2.2 Surveys of overseas trends

We participated in the following international conferences and gathered information.

- (1) Professor Takeda, Associate Professor Yamaji, Associate Professor Funamori, Associate Professor Kanazawa and Associate Professor (by special appointment) Kurakawa (NII) attended the RDA(Research Data Alliance) 9th Plenary Meeting (2017/4/5–7, Barcelona, Spain).
- (2) Associate Professor Yamaji (NII) attended the Confederation of Open Access Repositories (COAR) Annual Meeting 2017 (2017/5/8–10, Venice, Italy).
- (3) Professor Takeda (NII) attended the IDF Strategic Meeting International DOI Foundation (2017/6/13-14, Daejeon, Korea).
- (4) Professor Takeda (NII) attended the DOI Strategy Meeting (2017/6/15, Seoul, Korea)
- (5) One university librarian as a member of Institutional Repositories Promotion Committee attended the 12th Annual International Conference on Open Repositories (OR2017) (2017/6/27–30, Brisbane, Australia).
- (6) Professor Takeda (NII) attended the Research Data Alliance (RDA) 10th Plenary Meeting (2017/9/18-21, Montreal, Canada).
- (7) Professor Takeda (NII) attended PIDapalooza (PID : Persistent ID) (2018/1/23-24, Girona, Spain).
- (8) Professor Takeda (NII) attended the IDF Annual Meeting (2018/1/25-26, Barcelona, Spain).

1.2.3 Support for arXiv.org

arXiv.org is operated by Cornell University Library with preprint servers of physics, mathematics, and computer science, and other related fields. In 2017, electrical engineering and systems science and economics were newly added to these fields. In December 2014, the number of papers exceeded 1 million, and in 2017 the number increased to 1.37 million. The number of annual new submissions is 120,000. While the annual number of downloads exceeded 180,000,000, the total number of downloads exceeded 1 billion. With financial support from institutions with a high number of their users, through the arXiv membership program, which was launched in 2013, 221 institutions from 27 countries have participated in this program as of the end of fiscal 2017.

NII has supported arXiv.org in Japan by contacting universities to confirm their intent to participate. In April 2014, we were sounded out by Cornell University to call on universities to become Japanese members of arXiv.org as a consortium. After confirming this matter with each member university, we changed their contracts to Consortium Contracts. Their membership fee was discounted by 10% as a consortium price. In 2017, as a result of an intention survey for the top 300 frequent user universities of arXiv.org in terms of the

application for membership, the number of the members as of the end of December 2017 is 14 institutions.

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. Also, Director-General Takashi Hikihara of the Kyoto University Library Network became a representative of this Consortium, joined the Member Advisory Board (MAB) of arXiv.org in 2016, and attended a board meeting held on October 5, 2017 followed by the board meeting in 2016.

1.2.4 Support for SCOAP³

Since the launch of SCOAP³ in 2014, NII has functioned as Japan's national contact point. During 2017, 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. While the number of participating institutions from Japan in Phase 1 (2014-2016) was 34, in Phase 2 (2017-2019), 67 institutions announced their participation in SCOAP³ as of the end of March 2018, which was an increase from 40 institutions in 2017 with the addition of the American Physical Society's journal in 2018.

The number of papers which were made available as Open Access publications through SCOAP³ reached 17,850 (2014-2017). The cost for making a paper available as an Open Access publication is 1,032 Euro, a cost lower than the Article Processing Charge (APC) of a general Gold OA journal.

Disclosure of the SCOAP³ repository, which lists SCOAP³ 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.

With the American Physical Society (APS) joining SCOAP³ from 2018, the papers in the High Energy Physics (HEP) field appearing in the three journals published by APS: Physical Review C, Physical Review D, and Physical Review Letters, were announced to become Open Access publications. Based on this, approximately 90% of the papers in the HEP field throughout the world have become Open Access publications since 2018. The contributions for SCOAP³ of each subscriber institution will be cut from their contract amount with APS in 2018 and 2019.

Professor Jun Adachi from NII, a member representing Japan at SCOAP³ Governing Council, attended the Executive Meetings (September 26, 2017) as well as the Forum (December 7, 2017, Webinar). To seek the participation of more institutions, this fiscal year, we engaged in public relations activities, preparing and publishing videos for physics researchers, and placing an advertisement in a journal of the Physical Society of Japan.

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 April 2017, 98 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 three months from October 2017 and stakeholders of the CERN and NII conducted video conferences several times.

1.2.7 Publication of Fiscal 2016 SPARC Japan Annual Report

Activities undertaken during fiscal 2016 were summarized in an annual report (Japanese version) published in March 2018 and the annual report FY2015 in English was published in March 2018.

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 2017, we continued to conduct follow-up activities.

2 Record of Meeting

2.1 SPARC Japan Governing Board

Date	Agenda
September 26, 2017	<ol style="list-style-type: none">1. Summary of minutes of the last meeting (draft)2. Activity of SPARC Japan in fiscal 20173. Cooperation with overseas OA initiatives4. Policy for the activities of SPARC Japan in the future [discussion]5. Report on the activities of JUSTICE related to Open Access6. Others
March 14, 2018	<ol style="list-style-type: none">1. Summary of minutes of the last meeting (draft)2. Report on the activities of SPARC Japan in fiscal 20173. Report on the activities of JUSTICE related to Open Access4. Cooperation with overseas OA initiatives5. Plans for the activities of SPARC Japan in fiscal 2018 [discussion]6. Establishment of a planning working group for SPARC Japan Seminar 2018 [discussion]7. Policy for the activities of SPARC Japan in the future [discussion]8. Others

2.2 Planning Working Group for SPARC Japan Seminar

Date	Agenda
Kick off meeting June 21, 2017	<ol style="list-style-type: none">1. Explanation of purpose2. Annual theme3. Schedule and duties4. 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
Yasunori Fukagai	Professor, Graduate School of International Social Sciences, Yokohama National University
Keiko Kurata	Professor, Faculty of Letters, Keio university
Mitsuaki Nozaki	Professor, High Energy Accelerator Research Organization (KEK) Head, International Cooperation Office
Syun Tutiya	Professor, National Institution for Academic Degrees and University Evaluation
Shima Fumiko	General Secretary, Hokkaido University Library
Tsutomu Takahashi	General Manager, University of Tokyo Library

Masayuki Shoji	Administrative director of the library, Waseda University Library
Midori Ichiko	Administrative Director, Mita Media Center, Keio University (Chair, the steering committee of JUSTICE)
Kazuhiro Hayashi	Senior Research Fellow, National Institute of Science and Technology Policy
Jun Adachi	Deputy Director General, National Institute of Informatics
Hideaki Takeda	Professor, Principles of Informatics Research Division, National Institute of Informatics (Joint steering committee chair, Japan Link Center)
Kazuko Egawa	Deputy Director, Cyber Science Infrastructure Development Department, National Institute of Informatics

3.2 Planning Working Group for SPARC Japan Seminar 2017

Name	Title / Affiliation
Shigetoshi Kajiwara	Head of Office, Muroran Institute of Technology Library
Masahito Nosé	Assistant Professor, Graduate School of Science, Kyoto University
Noboru Nakatani	Tottori University Library
Yoko Sasabuchi	Manager of the Library, E-Resources, Waseda University
Kazuhiro Hayashi	Senior Research Fellow, Science & Technology Foresight Center (STFC), National Institute of Science and Technology Policy
Takanori Hayashi	Head of Information Management Subsection, Publications and Documentation Section, Information and Public Relations Office, Research Planning and Partnership Division, Japan International Research Center for Agricultural Sciences
Hidemasa Bono	Project Associate Professor, Database Center for Life Science, Joint Support- Center for Data Science Research, Research Organization of Information and Systems
Kei Kurakawa	Associate Professor (by special appointment), Scholarly and Academic Information Division, National Institute of Informatics

4 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		

	<p>06/07 Recruitment of Participating Journals</p> <p>09/15 The 2nd Governing Board Meeting</p> <p>09/22 The 2nd Council Meeting (Adoption of Participating Journals)</p> <p>10/14 Joint Meeting of Working Groups</p>	<p>07/07 Briefing on Project Concept for Academic Societies, at National Center of Sciences</p> <p>09/27 Project Euclid Meeting, Briefing on DPubS</p> <p>10/15 Symposium "Current Issues on Scholarly Publishing to Advance Scholarly Communication ~SPARC Japan as an Example" at Hiroshima University Library, Co-sponsored by Hiroshima University Library, the Japan Association of National University libraries(JANUL) Committee on Scholarly Information, NII</p> <p>10/19 Symposium "Future Prospects on Japanese Scholarly Journals", at Waseda University Center for Scholarly Information, Co-sponsored by The Society of Polymer Science, The Institute of Electronics, Information and Communication Engineers, Committee of Tohoku Mathematical Journal, The Japan Society of Mechanical Engineers, The Japan Institute of Metals and Materials, The Zoological Society of Japan, The Japan Society for Analytical Chemistry, Japanese Society of Mammalian Ova Research, The Mammal Society of Japan, NII</p> <p>11/05 OUP Meeting "Current Situation of Open Access"</p> <p>11/25 The 6th Library Fair & Forum "Trends in Scholarly Communication: Open Access and Self-Archiving", at Pacifico Yokohama</p> <p>01/27 Workshop "Business Models for E-Journals and Trends in Scholarly Publishing", at Japan Education Center</p> <p>03/24 Symposium "Current Trends and Issues around SPARC: Scholarly Journals, Institutional Repositories and Open Access", at Waseda University</p> <p>05/19 The 1st SPARC JAPAN Seminar 2005 "Learning from history of Nature - Editorial Policies at Nature"</p>	<p>07/01 Presentation on Activities of SPARC Japan at workshop of JANUL(Japan Association of National University Libraries) general meeting, at Osaka University Convention Center</p> <p>10/19-20 Participation in the Project Euclid DPubS Conference, at Cornell University, US</p>
2005	06/06 The 1st Governing Board Meeting		

06/08	The 1st Council Meeting	06/29	The 2nd SPARC JAPAN Seminar 2005 “J-STAGE Online Submission and Review System”	06/21-22	Participation in the JISC International Solutions for the Dissemination of Research, London, UK
		07/09-10	Closed Workshop “E-Journals: Current Usage and Future Prospects” at Keidanren Guest House	07/07-08	Elsevier Library Connect Seminar 2005, “Understanding Users”, in Kyoto and Tokyo, Supported by NII
		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	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
		09/22	The 4th SPARC JAPAN Seminar 2005 “How do we launch and publish e-journals? -challenges for academic societies and publishers”	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	10/06	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		
10/26	The 2nd Council Meeting (Adoption of Participating Journals)	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	12/09	Nagasaki University Library Lecture 2 “Latest Trends in Scholarly Communication: Role and Activities of SPARC Japan”, Sponsored by Nagasaki University Library
		12/12	The 7th SPARC JAPAN Seminar 2005 “English Reviewer in Academic Journals in Japan”		

	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.”	
2006	02/24 The 3rd Council Meeting	02/10 The 9th SPARC JAPAN Seminar 2005 “Wrap-up Session by SPARC Japan Partners”	
	09/08 The 1st Governing Board 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	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
	01/30 The 2nd Governing Board Meeting	01/30 The 6th SPARC Japan Seminar 2006 “Promotion of E-Journal and Licensing (2) Tips from the Experts”	

		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 05/17 UniBio Press Seminar “Challenges for Journal of Biological Sciences: for broader and more accurate dissemination of information” at Kyoto University Library 08/05-11 Participation in the 41st IUPAC Congress (International Union of Pure and Applied Chemistry), Torino, Italy , 08/20-22 Participation in the 234th ACS (American Chemical Society) National Meeting & Exposition, Boston, US 11/07-09 Participation in The 9th Library Fair & Forum, at Pacifico Yokohama
	06/12 Joint Meeting / SPARC Japan Partners 07/19 The 1st Governing Board Meeting	07/17 The 1st SPARC Japan Seminar 2007 “Measuring Performance of Journals/Articles by Bibliometrics - Series 2” 10/02 The 2nd SPARC Japan Seminar 2007 “Evaluating Online Submission and Review System Part 3 – For Better System” 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 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”	
	12/14 SPARC Japan Partners-University Libraries Joint Meeting “Forming a consortium of SPARC Japan Partners” 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
2008			

		<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 & 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 & 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	12/24 The 1st Governing Board Meeting	01/22-26 Project Euclid-Mathematics Journals Meeting at National Institute of Informatics, Kyoto University and Tokyo Institute of Technology	12/17-20 Participation in the International Conference on Embedded and Ubiquitous Computing (EUC 2008), Shanghai, China
	03/10 The 2nd Governing Board Meeting 03/27 Joint Meeting / SPARC Japan Publishing Partners 03/27 The 3rd Governing Board Meeting	02/13 The 9th SPARC Japan Seminar 2008 "Report from SPARC Japan Partners"	03/16-20 Participation in the 2009 APS (American Physical Society) Meeting, Pittsburgh, US
2009	10/05 The 1st Governing Board Meeting	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"	11/25 SPARC Japan Publishing Partners in Chemistry Participated in the APBioChEC (Asia Pacific Biochemical Engineering Conference) 2009, at Kobe Convention Center 12/03-04 DRF International Conference 2009 (DRFIC 2009), Co-hosted by DRF and NII, at Tokyo Institute of Technology
		08/04 The 2nd SPARC Japan Seminar 2009 "Sustainability of non-profit publishers - learning from OUP"	
		09/08-09 The 3rd SPARC Japan Seminar 2009 (RIMS Workshop) "Towards a Digital Mathematics Library"	
		09/17 The 4th SPARC Japan Seminar 2009 (Annual Meeting of the Zoological Society of Japan) "Zs Project"	
		10/20 Open Access Week (The 5th SPARC Japan Seminar 2009) "An open access business model and researchers' attitudes"	
		11/11 The 6th SPARC Japan Seminar 2009 (Library Fair & Forum) "NIH Public Access Policy"	
		12/11 The 7th SPARC Japan Seminar 2009 "Status of Social Sciences Journals - Issues of IR, Copyright, E-journals"	
		02/02 The 8th SPARC Japan Seminar 2009 "Marketing to Libraries Worldwide"	

	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>

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

2012	<p>05/25 The 1st SPARC Japan Seminar 2012 “Review of Research Assessment”</p> <p>06/19 The 2nd SPARC Japan Seminar 2012 “Further Progress of Journals - Focusing on Platform Transfer”</p> <p>07/25 The 3rd SPARC Japan Seminar 2012 “Reform: Grants-in-Aid for Scientific Research (Publication of Research Results/Scientific Periodicals)”</p> <p>08/23 The 4th SPARC Japan Seminar 2012 “Open Access Journal: Funder-Researcher Collaboration in Science Communication”</p> <p>10/26 The 5th SPARC Japan Seminar 2012 “Open Access Week - Open Access in Japan, Last Decade and Next Decade”</p> <p>12/04 The 6th SPARC Japan Seminar 2012 “How Open Access Can Change Libraries & Librarians - Course on Open Access for Libraries & Librarians”</p> <p>02/19 The 7th SPARC Japan Seminar 2012 “Libraries’ Financial Support for Open Access”</p> <p>12/10 The 1st Governing Board Meeting</p>	<p>07/02-07 Participation in the 6th European Congress of Mathematics (ECM), Kraków, Poland</p> <p>08/19-21 Participation in the 244th ACS (American Chemical Society) National Meeting & Exposition, Philadelphia, US</p> <p>08/26-30 Participation in the 4th EuCheMS Chemistry Congress, Prague, Czech Republic</p> <p>12/26-27 Keynote Speech at RIMS Joint Research, Kyoto University</p>	
2013	<p>03/26 The 2nd Governing Board Meeting</p> <p>06/07 The 1st SPARC Japan Seminar 2013 “Future Perspective: SPARC and SPARC Japan”</p> <p>08/23 The 2nd SPARC Japan Seminar 2013 “Latest Developments in Open Access - Humanities and Social Sciences -”</p> <p>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”</p> <p>12/19 The 4th SPARC Japan Seminar 2013 “Accessing & Publishing of Academic Information- Think Globally, Act Locally”</p>	<p>08/06 The 1st Working Group Meeting for Survey on Submission to OA Journals</p> <p>10/02 The 2nd Working Group Meeting for Survey on Submission to OA Journals</p> <p>12/04 MOU Conclusion on SCOAP³ with CERN</p> <p>01/27 Keynote Speech at RIMS Joint Research, Kyoto University</p>	

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?” 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 -”	
2015	08/04 The 1st 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

	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 & 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 & 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 SCOAP³ 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 SCOAP³, 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 ³ Executive Meeting, Geneva, Switzerland 03/23-24 Participation in the SCOAP ³ Governing Council Meeting, Geneva, Switzerland
2017	09/26 The 1st Governing Board Meeting	09/13 The 1st SPARC Japan Seminar 2017 "A New Relation Between Librarians and Researchers: From a Viewpoint of Management and Distribution of Research Data" 10/30 The 2nd SPARC Japan Seminar 2017 (Open Access Summit 2017) "Preprint and Open Access"	04/05-07 Participation in the RDA(Research Data Alliance) 9th Plenary Meeting, Barcelona, Spain 05/08-10 Participation in the Confederation of Open Access Repositories (COAR) Annual Meeting 2017, Venice, Italy 06/13-14 Participation in the IDF Strategic Meeting International DOI Foundation, Daejeon, Korea 06/15 Participation in the DOI Strategy Meeting, Seoul, Korea 06/27-30 Participation in the 12th Annual International Conference on Open Repositories (OR2017), Brisbane, Australia 09/18-21 Participation in the Research Data Alliance (RDA) 10th Plenary Meeting, Montreal, Canada 09/26 SCOAP ³ Governing Council Meeting (teleconference) 10/05 Participation in the arXiv.org Member Advisory Board Meeting, New York, US 12/07 SCOAP ³ FORUM (Webinar) 01/23-24 Participation in the PIDapalooza (PID : Persistent ID), Girona, Spain 01/25-26 Participation in the IDF Annual Meeting, Barcelona, Spain
	03/19 The 2nd Governing Board Meeting	02/21 The 3rd SPARC Japan Seminar 2017 "Beyond Open Science"	

5 Publication

5.1 SPARC Japan Annual Report

- SPARC Japan (International Scholarly Communication Initiative) Annual Report FY2015
[http://www.nii.ac.jp/sparc/en/publications/pdf/sparc_annual_2015 E.pdf](http://www.nii.ac.jp/sparc/en/publications/pdf/sparc_annual_2015_E.pdf)

5.2 SPARC Japan NewsLetter

- SPARC Japan NewsLetter No. 32, Apr. 2017
<http://www.nii.ac.jp/sparc/en/publications/pdf/sj-NewsLetter32E.pdf>
- SPARC Japan NewsLetter No. 33, Dec. 2017
<http://www.nii.ac.jp/sparc/en/publications/pdf/sj-NewsLetter33E.pdf>

5.3 Reference for SPARC Japan Seminar 2017

【The 1st SPARC Japan Seminar 2017】 September 13, 2017

"A New Relation Between Librarians and Researchers:

From a Viewpoint of Management and Distribution of Research Data"

<https://www.nii.ac.jp/sparc/en/event/2017/20170913en.html>

- Opening Greeting / Outline: Masahito Nosé, Graduate School of Science, Kyoto University
- "Positioning of Research Data and the Expectations for University Strategy on Data Management"
Keiko Kurata, Faculty of Letters, Keio University
- "Scholarly Repository as a Bridge Between Researchers and Librarians"
Takeshi Osawa, Institute for Agro-Environmental Sciences, NARO
- "Institutional Support for Research Data Management and the Role of Libraries"
Yui Nishizono, Kagoshima University / JPCOAR Research Data Task Force
- "The Role of JPCOAR Schema in Future Scholarly Communication"
Tomoko Kataoka, Ochanomizu University / JPCOAR Metadata Task Force
- "Introduction of Research Data Utilization Forum (RDUF)"
Hideaki Takeda, National Institute of Informatics / Research Data Utilization Forum
- Discussion: [[Moderator]] Masahito Nosé, Graduate School of Science, Kyoto University

【The 2nd SPARC Japan Seminar 2017】 October 30, 2017

"Preprint and Open Access"

<https://www.nii.ac.jp/sparc/en/event/2017/20171030en.html>

- Opening Greeting / Outline: Hidemasa Bono, Database Center for Life Science
- "arXiv.org Next Generation -Its Opening and Strategy-"

Takashi Hikihara, Director General of Library Network in Kyoto University / Representative of the NII Japan Consortia for arXiv.org

- "Sharing and the Future of Open Access"

Gregg Gordon, Managing Director of Social Science Research Network (SSRN)

- "Preprints in Chemistry"

Kounosuke Oisaki, Graduate School of Pharmaceutical Sciences, the University of Tokyo / Deputy-Head, Chem-Station

- "Case Examples of Preprint in Life Science Field and My Experience, and Introduction of TogoTV"

Hiromasa Ono, Database Center for Life Science

- Discussion: [[Moderator]] Hidemasa Bono, Database Center for Life Science

【The 3rd SPARC Japan Seminar 2017】 February 21, 2018

"Beyond Open Science"

<https://www.nii.ac.jp/sparc/en/event/2017/20180221en.html>

- Opening Greeting: Kazuhiro Hayashi, National Institute of Science and Technology Policy

- Outline: Kei Kurakawa, National Institute of Informatics

- "Really Understanding 'Open Science' -Its Beneficial Potentials, Its Fragility, Its Functional Performance Problems, and How NOT to Try to Fix Them--"

Paul A. David, Emeritus Professor of Stanford University

- "'Open Science' as Data - Driven Science Ecosystem - From a Viewpoint of Japan, and with Past Community Practices"

Yasuhiro Murayama, Natl. Inst. of Info. and Communications Technology (NICT) / ICSU-World Data System

- "Enabling Open Research"

Heather Joseph, SPARC North America

- "Research Lifecycle and the Support by Academic Libraries and Universities in Digital Era"

Keiko Kurata, Faculty of Letters, Keio University

- "Ideal Scholarly Communication Environment Provided by University Libraries in the Digital Age"

Midori Ichiko, Mita Media Center, Keio University

- Panel Discussion: [[Moderator]] Yasunori Fukagai, Graduate School of International Social Sciences, Yokohama National University

From Moderator: "Taking the Scientific Knowledge Seriously: A Consideration in the Era of Open Science "



SPARC Japan NewsLetter provides activity and seminar reports. The seminar report includes its outline, program with speakers' introductions and abstracts, discussion, attendee feedback, and afterword. The logo of SPARC Japan was updated along with SPARC in June. While referencing the literal “spark” shape of SPARC’s original mark, which epitomizes the birth of a new idea and speaks to the core of our collective drive to realize the full potential of the open sharing of knowledge; the new logo updates and simplifies this image, making the shape itself more open. It also finds symbolism in its resemblance to an asterisk, emphasizing energy and dynamism, while also reflecting our solid grounding in the digital environment.



CONTENTS

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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 the goals in Phase 5 of SPARC Japan, and specifically surveys of overseas trends have been going ahead. We have participated in some international conferences as below.

-
- Report of the COAR Conference 2017
Tomoko Kagawa (Ochanomizu University) and Kazutsuna Yamaji (National Institute of Informatics) participated as members of the Japan Consortium for Open Access Repository (JPCOAR) (2017/5/8-10).
<http://id.nii.ac.jp/1458/00000036/>
 - Report of the Open Repositories 2017
Yutaka Hayashi (Kyushu University) participated as a member of the Japan Consortium for Open Access Repository (JPCOAR) (2017/6/27-30).
<http://id.nii.ac.jp/1458/00000030/>
 - Report of the 14th International Conference on Digital Preservation (iPRES2017)
Yasuyuki Minamiyama (National Institute of Polar Research) participated as a member of the Japan Consortium for Open Access Repository (JPCOAR) (2017/9/26-27).
<http://id.nii.ac.jp/1458/00000033/>

■ SPARC Japan Seminar Report



The 1st SPARC Japan Seminar 2017

“A New Relation Between Librarians and Researchers:

From a Viewpoint of Management and Distribution of Research Data”

Wednesday, September 13, 2017: National Institute of Informatics
19th floor Conference Room (Attendees: 60)

This seminar intended to show that librarians and researchers share a common point of view about management and distribution of research data. Two researchers gave their ideas of the potential that librarians would participate in the openness of research data, referring to experience and the report of the survey, and two librarians introduced a training tool of the Research Data Management and the JPCOAR Schema as a revised version of junii2, in order to lead attendees to consider a new relation between them.

See the SPARC Japan website for handouts and other details

(<http://www.nii.ac.jp/sparc/en/event/2017/20170913en.html>).

Outline



Institutional repository in Japan is unprecedentedly growing, and the number becomes over 700 at minimum. It has been playing an important role to collect, organize, preserve, and disseminate academic information that are generated through education and research

activities in university. Although open science has been promoted by institutional repositories, for its further promotion, we need to construct a similar repository system for research data.

In July 2016, Japan Consortium for Open Access Repository (JPCOAR) was founded to support institutional repository in Japan. JPCOAR is expected to develop “open access repository” to manage and distribute research data. For efficient operation of open access repository, it is needed for librarians to understand how to manage research data that have been unfamiliar to them and how to help researchers utilize research data repositories. It is also needed for researchers to understand that openness of research data adds a new value to them and to aim at active and spontaneous utilization of research data repository through close collaboration with librarians.

In recognition of the above, this seminar intends that librarians and researchers share a common point of view about management and distribution of research data. The seminar will lead attendees to consider a new relation between them.



Presentation Abstracts and Speakers

Positioning of Research Data and the Expectations for University Strategy on Data Management



Keiko Kurata (Faculty of Letters, Keio University)



Researchers' practices and perception on data use and open data is complex.

Typical examples are the following statement; "it is My data", "it is useless for making only data open", "researchers

who have skill and knowledge can understand the meaning by looking only data." These statements are not able to understand with simple dichotomy between open position or restricted position. Research data is embedded within the research lifecycle, does not have final form, in compared with published articles which confirmed the research results. This lecture

introduces the complex position of researchers' perception on data use and open data, and reports the results of survey on research data management in Japanese universities. Finally, the direction of which universities should aim is considered.

Profile

In 1987 she finished graduate school of library and information science at Keio University. In 1988 she served as a lecturer at faculty of letters, Keio University, associate professor in 1993, and professor in 2001. Her research interest is scholarly communication, especially digitization of information media, open access, research data.

Scholarly Repository as a Bridge Between Researchers and Librarians



Takeshi Osawa (Institute for Agro-Environmental Sciences, NARO)



The most important job duty of academic researcher is publication. After published, researcher

wish for increasing citation on that. Scholarly repository could enhance that,

thus, that have large benefit for researchers. However, at the same time, operating repository require both human and budget resources. Together with researchers and librarians, we should establish a mechanism which have a return

each other. In this talk I would like to take a current status on researcher, problems and take an idea for collaboration with librarians.

Profile

Takeshi Osawa Ph.D. is the senior researcher in Institute for Agro-Environmental Sciences, NARO. His research subject is biodiversity science based on data base including open data. Also he is a member of steering committee in Japan Node of Global Biodiversity Information Facility.

Institutional Support for Research Data Management and the Role of Libraries



Yui Nishizono (Kagoshima University / JPCOAR Research Data Task Force)



There is growing interest in proper research data management throughout the research process, mainly in the context of promotion of open science and research integrity. In order to promote proper research data management, in addition to researchers themselves, research supporters have to acquire knowledge and skills related to research data management and provide institutional support in many ways. The JPCOAR Research Data Task Force is

working on the development of learning materials related to research data management. In this presentation, I will introduce these learning materials and how to utilize them, and describe the possibilities of future librarian roles.

Profile

A librarian, working at Kagoshima University Library. She is also a member of Research Data Task Force established by the Japan Consortium for Open Access Repository (JPCOAR).

The Role of JPCOAR Schema in Future Scholarly Communication



Tomoko Kataoka (Ochanomizu University / JPCOAR Metadata Task Force)



In recent years, open access to publicly funded research and related data is being promoted by funding agencies and government policy. To promote the discovery and utilization of published research, standardized metadata exchange format corresponding to new academic resources, such as research data, and international scholarly communication is required. JPCOAR has revised junii2, which is the

metadata exchange format of the institutional repository, and established JPCOAR schema to fulfill this societal need. I will introduce the role of JPCOAR Schema in future scholarly communication.

Profile

Librarian of the Library and Information Division at Ochanomizu University since April 2015. In charge of support for all university administrative systems in the Information Foundation Section. She has joined JPCOAR Metadata Task Force since 2016.

Introduction of Research Data Utilization Forum (RDUF)



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



Research Data Utilization Forum (RDUF) is the community for people who commit research data sharing and research open data. It is founded by Japan Link Center (JaLC). RDUF starts a new

program called Sub Committee where a specific topic is to be discussed in a sub committee. We are now calling proposals for Sub Committee.

Profile

http://www.nii.ac.jp/en/faculty/informatics/takeda_hideaki/

Discussion



Summary:

In overall discussions, the speakers and participants at the venue exchanged opinions regarding the following points. In addition, through the live broadcast the audience asked questions via Twitter and took part in discussions for the first time.

- Regarding data retention following retirement and the opportunities for librarians and researchers to cooperate in storing data after the completion of current research projects.
- What are the incentives for librarians when handling research data?

Moderator: Masahito Nosé (Graduate School of Science, Kyoto University)

Profile

Ph.D. received from Graduate School of Science, Kyoto University in 1998. Postdoctoral fellow for 1998-2001 at The Johns Hopkins University Applied Physics Laboratory. Assistant Professor since 2001. Specialized in solar-terrestrial physics and geomagnetism. Main research interests include geomagnetic variations, pulsations, dynamics of energetic particles in the inner magnetosphere, substorm, and geomagnetic indices. Recently involved in minting digital object identifiers to research data.



Attendee Feedback

(person affiliated with university library)

– Although there is no immediate resolution to this problem, the seminar was very interesting and helpful since I obtained honest feedback from researchers. Additionally, researchers were also pleased to directly hear the opinions of librarians. I thought that such a format was very meaningful for connecting researchers with librarians.

(university researcher)

– I noticed differences in culture between the jobs of librarians and researchers.

(other library staff)

– It was meaningful as a seminar to learn about the role of embedded librarians and support departments for academic information, as well as how to use the research library, and a vision of the future.

However, I was surprised and disappointed at the comments from librarians that for them their greatest pleasure is to receive requests from researchers, and so they cannot be research collaborators, they do not need external funds, and they do not need to be assessed on the job they do. I have been delegated tasks in a project with researchers and sometimes I am asked to collect materials. On such occasions, my name is sometimes mentioned in the acknowledgment section as a collaborator. This honestly pleases me to receive recognition for being helpful, and motivates me for the next job. In addition, a former director of this library was listed as a research collaborator along with the researchers who studied the ancient documents housed in the library. Although we fall far short in being perfect embedded librarians, I believe that, depending on how

librarians think, they can be close to the researchers and that both librarians and researchers can value each other's opinion on an equal footing regardless of social status. I am very grateful for the support of those involved in JPCOAR. I appreciate their work in formulating the schema. This seminar was a revelation to me in that improving communications between

researchers and librarians can be part of open science.

(researcher)

– The discussion during Dr. Osawa's session was particularly useful to me. I was glad that he clarified the difference in incentives depending on one's duties because it is important in terms of practicality.

Afterword

😊 This seminar helped me understand that librarians and researchers think differently and have different incentives when it comes to the necessary procedures for the disclosure of research data. It was very beneficial to have a longer than usual question and answer session because I could hear opinions directly from librarians. I would like to express my deepest gratitude to the librarians who shared their opinions. I hope that librarians and researchers can meet each other halfway and get along.

Masahito Nosé
(Graduate School of Science,
Kyoto University)

😊 I was in charge of planning the seminar and posted on Twitter on the day of the seminar. While libraries are involved in the management and distribution of research data as an organization, this seminar helped shed light on the differences in perception between researchers and librarians on ways to show their contributions. I hope that researchers as users increase the

opportunities to recognize the contributions of librarians in joint authorship and acknowledgements to provide greater incentives for librarians, which then enhances the reputation of organizations.

Takanori Hayashi
(Japan International Research Center
for Agricultural Sciences)

😊 For librarians, I believe the seminar was beneficial in that it suggested a new role for the management of research data and allowed for frank questions and opinions from the perspective of researchers. In addition, it was a good opportunity to more deeply reflect on the incentives for librarians and whether we could contribute enough to benefit from such collaborations. Based on the use of the RDM training tools and metadata schema, I hope it will create a foundation for continuing the above activities or lead to different types of collaboration.

Noboru Nakatani
(Tottori University Library)



SPARC Japan NewsLetter provides activity and seminar reports. The seminar report includes its outline, program with speakers' introductions and abstracts, discussion, attendee feedback, and afterword.

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Support for SCOAP³

Setting “cooperating with international OA initiatives” and “advocacy activities regarding distribution of scholarly information and academic resources” as part of the performance goals of the phase 5 of the SPARC Japan project, the National Institute of Informatics (NII) supports SCOAP³ (Sponsoring Consortium for Open Access Publishing in Particle Physics) in its concrete activities, and acts in a coordinating role with participating institutes in Japan while conducting public information activities.

SCOAP³ is an international cooperative project aimed at realizing open access for peer-reviewed journals in the field of high-energy physics. The European Organization for Nuclear Research (CERN) in Switzerland is taking the lead, while in Japan, NII has become a national contact point following the joint signing in 2011 of an expression of interest (EoI) by the High Energy Accelerator Research Organization (KEK), the Coordinating Committee for Japanese University Libraries (CCJUL), and NII.

There were 34 participating institutes in Japan during phase one (2014–2016) and 40 in 2017 during phase two (2017–2019). Furthermore, following the inclusion of the American Physical Society in target journals in 2018, 67 institutes have announced their

participation in SCOAP³. Established under the Cooperation Promotion Council which links between the National Institute of Informatics (NII) and university libraries, the task force determines calculation methods for contribution amounts, confirms participation intent/contribution amounts, and conducts public information activities for physics researchers. Contributions from participating institutions in Japan are collected by NII and paid to CERN each year.

Visit our website for more information: <https://www.nii.ac.jp/sparc/scoap3/>

■ SPARC Japan Seminar Report

The 2nd SPARC Japan Seminar 2017 (Open Access Summit 2017)



“Preprint and Open Access”

Monday, October 30, 2017: National Institute of Informatics
12th floor Conference Room (Attendees: 63)

This seminar focused on preprint servers, which are essential to develop open access. Considering the functions and transition, we discussed some issues, such as contribution to promoting scientific research, design of sustainable business model and ensuring quality, with the presentations by a publisher and some researchers.

See the SPARC Japan website for handouts and other details
(<https://www.nii.ac.jp/sparc/en/event/2017/20171030en.html>).

Outline



There are two major ways authors can provide open access (OA) to their work. One is to publish it and then self-archive it in a repository where it can be accessed for free (‘green’ OA). The other is to publish from publishers based on article processing charges (APC) authors pay (‘gold’ OA).

The pioneering work by arXiv enables authors to submit and distribute papers before the publication in peer-reviewed journals. It has been regarded as one of repositories, which we call ‘preprint archive’, and is only for academia. It has been considered that the preprint servers have no relationship to the commercial use of achievements.



Recently, many authors get to submit their papers to the preprint archive in life science (bioRxiv) where researchers in life science have not had preference to submit their works to the preprint. In August 2017, American Chemical Society announced the beta version of preprint server for chemists called ChemRxiv. In spring 2017, Elsevier developed BioRN preprint server for life scientists. These preprint servers are designed to include the data archive, which involves OA to the data (open data) in the publications. Preprint servers are now very important not only in OA but in open science, and its position in scientific information life cycle has changed.

In the 2nd SPARC Japan Seminar 2017, we will review the role and management of the preprint servers in these 30 years and discuss how to contribute to the advancement of scientific research and the issues concerning the importance of the commercial publication, sustainable models of the publication and the quality control of papers with the comments from researchers.

Presentation Abstracts and Speakers

arXiv.org Next Generation -Its Opening and Strategy-

**Takashi Hikihara (Director General of Library Network in Kyoto University
/ Representative of the NII Japan Consortia for arXiv.org)**



arXiv.org has been developed at LANL since 1991, and now is the grandfather of all preprint servers. The server includes Physics, initially, and extended to Math, Nonlinear Science, Computer

Science, Statistics, and Finance. New top level subjects of EESS and Econ were opened on this October. It can safely be said that this is a special occasion for arXiv! The

idea of the New Generation system and the strategy are offered from MAB meeting and others.

Profile

Professor Takashi Hikihara has received PhD in EE from Kyoto University. He joined Kyoto University as an associate professor in 1997 and became a full professor in 2001. He was also a visitor of Cornell University. He has been the Director General of Library Network in Kyoto University since 2012.

Sharing and the Future of Open Access

Gregg Gordon (Managing Director of Social Science Research Network (SSRN))



Open access and digital repositories are important pieces of the research dialogue. The recent addition of Black OA to Green and Gold have asked questions that do not have simple answers. Sharing in

general has changed significantly over the

last twenty years and Gregg Gordon will provide an overview of the SSRN, from its start in the social sciences to its broad expansion across 30+ disciplines, including life and physical sciences. This talk will include real world experiences, examples of the problems that come from broad sharing, and a view into the future of Open Access and scholarly communications in general.

Profile

Prior to helping Michael C. Jensen, found SSRN in 1994, Gregg worked at KPMG and entrepreneurial companies in technology and healthcare. He speaks around the world and writes regularly about scholarly

research and the changes needed to create innovative research faster. Most recently, he co-authored *The Question of Data Integrity in Article-Level Metrics*, published by PLOS Biology.

Preprints in Chemistry



Kounosuke Oisaki (Graduate School of Pharmaceutical Sciences, the University of Tokyo / Deputy-Head, Chem-Station)



Preprint posting as a rapid research communication platform is emerging in various field under circumstances where various problems are appearing in the current peer-reviewing system.

Also in the field of chemistry, a new preprint server managed by American Chemical Society (ChemRxiv) was launched and attracting much attention. In this presentation, I will discuss how chemists will use and develop preprints in future chemical research, with reference to some cases. While working as a faculty / researcher at The University of Tokyo, I have been engaged in management of the

largest Japanese chemistry portal website (Chem-Station) for many years. I would also like to mention the personal viewpoint from such unique experiences.

Profile

Kounosuke Oisaki was born in 1980 in Tokushima, Japan, and received his bachelor degree from The University of Tokyo (UT) in 2003 under the direction of Professor Masakatsu Shibasaki. He obtained his Ph.D. from UT in 2008. Then, he moved to the University of California-Los Angeles, USA, for postdoctoral studies with Professor Omar M. Yaghi. In 2010 he returned to Japan and joined Professor Motomu Kanai's group at UT as an assistant professor. He is currently a lecturer.

Case Examples of Preprint in Life Science Field and My Experience, and Introduction of TogoTV



Hiromasa Ono (Database Center for Life Science)



In the life science field, utilization of preprint is advanced in the past few years as a result of "bioRxiv" being launched in 2013 by Cold Spring Harbor Laboratory. It is becoming an

indispensable effort for researchers who need to catch up with the ever-changing research situation by sharing papers before peer review in advance. Even among researchers around me, the topic of preprints is increasing. The performer

himself has not yet experienced the preprint contribution, but he has the experience of registering and publishing all the data in the open repository in advance when submitting a paper, and thinks that such a process will be standard in the future.

Profile

Project associate professor in Database Center for Life Science (DBCLS), Joint Support-Center for Data Science Research, Research Organization of Information and Systems (ROIS) since 2010. Ph.D. in Bioresource Science from Nihon University.

Since 2010 in DBCLS, he has been working as an editor in chief of the TogoTV which is introducing how to use useful DB in life

science field with videos. Also he has been developing the platforms to interpret large scale data biologically.

Discussion



Summary:

There was an exchange of opinions between speakers and the audience during the general discussion session.

- Each research community should take the initiative on determining what the role of data should be in the future. Institutions such as universities should create a system to support public data servers, and academic societies should determine the future direction for data since they are users of that data, while also discussing the topic with researchers and companies.



- How are preprints going to be accepted in each research community? One possibility is that academic societies will play a key role in future trends, but with the explosive speed with which research is progressing, and considering the inability for researchers to wait for peer reviews of papers such is already the case in the fields of physics and informatics, intense competition will drive the penetration of preprints.

Moderator: Hidemasa Bono (Database Center for Life Science)

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.



Attendee Feedback

(person affiliated with university library)

- I came to realize that there are fields in which the value of preprints is recognized, and that the value of their existence is increasing.
- The comparison between arXiv and SSRN is very interesting. I would like to listen to more discussions about sustainability.

(person affiliated with business/libraries)

- I am afraid that libraries cannot yet focus on the existence of preprint servers. We have to be constantly on the lookout. Otherwise, we will not be able to respond to inquiries from researchers.

(other library staff)

- At recent SPARC Japan seminars, researchers often deliver speeches, which I think is excellent since it helps us working at the library to get a sense of what researchers actually need. I understand it is important to take a wide view because we may become complacent or removed from the actual needs if we keep only to our library peers. On the

other hand, every time I hear about what researchers think, what they need, as well as their troubles, I am at a loss since I do not know what we should do. I feel there is distance between researchers and us in libraries. Researchers think about things in the global community of each field rather than what is happening in their own institute. Does a research institute library have a specific role to play? What should we do to become a library that is needed by researchers? [From a live broadcast viewer]

(researcher)

- It was beneficial to get an update on the current situation. I also thought it would be good for researchers and authors to expand discussions from their points of view (such as senior researchers and presidents of academic societies who do not know about preprints coming to understand the potential of preprints for their researchers, academic societies, or the institutes to which they belong).

Afterword

😊 I caused some problems for the people working with me because of my inexperience in the project process. In the end, however, I was so glad to have carried out such an exciting seminar on preprints thanks to participation by all of the speakers, not only researchers from various fields, but also Mr. Gordon of SSRN. We were fortunate to have him at this seminar.

Hidemasa Bono
(Database Center for Life Science)

😊 I was responsible for sending out tweets. I learned some valuable lessons from this seminar since I was not much aware of preprints (the topic of this seminar) in my day-to-day work. I was impressed by a remark that an increase in the speed of research promotes the use of preprints. Listening to specific cases from researchers in each field, I became keenly aware of the

significance of recognizing the latest trends at all times, such as how much preprint penetration there is in each field and the relationship between publishers and researchers.

Yoko Sasabuchi
(Waseda University Library)

😊 The seminar was focused on preprints. Although library staff may have felt that they were still strangers to preprints, Cornell University library is already operating arXiv.org. The day may come in the near future when handling preprints will become one of the responsibilities of library staff. I would like to keep my eye on preprints as they become one of the new functions of a university library in the open science era.

Shigetoshi Kajiwarra
(Muroran Institute of Technology Library)



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NII Practical Training at CERN

We have aimed “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”, which is the basic policy in Phase 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 2017.

- Keiko Yokoi (the University of Tokyo Library System) worked for data curation of the database INSPIRE of High-Energy Physics (2017/9/30-2017/12/28).
<https://www.nii.ac.jp/hrd/ja/jitsumu/h29/index1.html>

The 3rd SPARC Japan Seminar 2018



“Beyond Open Science”

Wednesday, February 21, 2018: National Institute of Informatics
12th floor Conference Room (Attendees: 67)

This seminar was planned to clarify the direction of our concrete activities to which we should go forward. It was hopeful that participants discussed the original form of arts and sciences, so that this would be helpful for them to find the main subject for the stakeholders of academic knowledge production and go for the next step according to their own cases.

See the SPARC Japan website for handouts and other details

(<https://www.nii.ac.jp/sparc/en/event/2017/20180221en.html>).

Outline



The Budapest Open Access Initiative in 2002 and the G8 Open Data Charter in 2013 that the former was a bottom-up and self-independent activity of science academies and the latter was a top-down policy statement, were crossing each other but aiming at the common direction and became the turning point to accelerate the implementation of “Open Science”.

Nevertheless, even though this direction is on the same way of the digitization over our entire society, we are not clear of whether this means that we are at last realizing the ideal way of activity “science” that human beings have engaged in so far, or that the digitization as it is a change of tool revolutionizes the essence of scientific activities. In fact, together with this digitization, the form of scholarly communication changes so much, and the style of knowledge production and transfer in laboratories, class rooms, and “libraries” is drastically changing as we cannot predict what it will be.

In this changing, to clarify the direction of our concrete activities to which we should go forward, it is hopeful that participants stop for only one day and discuss the original form of arts and sciences, so that this will be helpful for them to find the main subject for the stakeholders of academic knowledge production and go for the next step according to their own cases.

Kei Kurakawa (National Institute of Informatics)

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



Presentation Abstracts and Speakers

Really Understanding 'Open Science'-Its Beneficial Potentials, Its Fragility, Its Functional Performance Problems, and How NOT to Try to Fix Them-



Paul A. David (Emeritus Professor of Stanford University)



My presentation advances three connected points about what is properly meant by “Open Science”, its potential functionality for sustaining economic growth, the nature and

sources of this social system’s contemporary disappointing performance, and how we should not undertake to remedy those problems. These understandings, I contend provide a necessary foundation for contemporary discussions and decisions about science and technology policies.

First, “open science” is best understood as multi-dimensional dynamical process involving the behavioral interactions of functionally differentiated sub-communities: educators, theoretical and empirical researchers, readers, authors, reviewers, research funding public institutions and private business organizations, publishers, archivists, a journal and book editors, and referees and reviewers. Each of these sub-communities, local and international as they may be, has an associated normative structure that that is neither externally imposed nor perfectly self-enforcing. Being most universal in its scope, or at least in its international reach, the “open science norms” have become those that are most fully articulated and familiar. Consequently, it is necessary to proceed from a brief review the functional performance implications of adherence to the individual norms, and the interaction consequences of norm-adherence that should be more widely grasped and appreciated.

Second, “open science” processes can be expected to function at the macro-dynamical level so that scientific resources

are allocated at the micro-level in a manner that is in accord with its operating norms, and produce allocative effects that are complementary to the beneficial micro-level workings of competitive market-based efficiencies in resource allocation. Were the coupled subsystems not plagued by “negative externalities” that they may generate (such as global warming), their interdependent actions could be relied upon to yield sustainable economic growth. An understanding of this is the foundation upon which science and technology policy strategies and the selection of instrumental tactics should be based.

Third, it is to be expected that, like all human social systems, deviant individual conduct is to be expected where-ever norms have been sharply articulated, and hence in research laboratories and corporate offices. Institutional and organization design failures, similarly, will strain the normative guidelines that leaders of those socio-legal organizational entities promulgate. They therefore call for continuous corrective efforts to counteract costly market failures on the one hand, and, on the other hand, to contain the extent of individual scientific misconduct so that it does not undermine the basis for reciprocal collegial trust, or overwhelm the internal corrective capacity of the subsystem’s knowledge-generating and -disseminating institutions. Open science’s structural features have evolved historically and the persistence of institutionalize legacies from its past is a potential source of dysfunctional modern outcomes. The later, institutionalized survivals, however, should not be hastily discarded on the dubious grounds that that the successful introduction, and popular acceptance of “free and open source software” — especially in educational and

scientific research activities — has rendered them obsolete and readily replaceable by software-implemented “openness” in all aspects of scientific activity. Understanding the ineluctably human social nature of open science processes, and the limitations of algorithmic information processes quickly dispels the mistaken notion that the vexing performance problems that we encounter in the workings of the open science system are not of a nature that permits them to be readily “fixed” by substituting an integrated array of “open” computer algorithms for communicative, knowledge-sharing human actors.

Profile

Paul Allan David is Professor of Economics and Senior Fellow of the Institute for Economic Policy Research at Stanford University. He is Professor Emeritus of Economics and Economic History in the University of Oxford, Emeritus Fellow of All Souls College, Oxford and currently Senior Fellow of the Oxford Internet Institute. David is the author of more than 150 journal articles and contributions to edited volumes, as well as of the author and editor of several

books including *Technical Choice, Innovation and Economic Growth* (1975) and *The Economic Future in Historical Perspective* (2003). He was among the pioneering practitioners of the “new economic history,” and is known internationally for wide-ranging contributions in the fields of American economic history, economic and historical demography, and the economics of science and technology. Investigation of the conditions that give rise to ‘path dependence’ — the persisting influence of historical events in micro and macro economic phenomena — is a recurring theme in his research. Two main areas of contemporary economic policy research have emerged in his work the past two decades: the evolution of information technology standards and network industries, and the influence of legal institutions and social norms upon the funding and conduct of scientific research in the public sector, and the interactions between that latter and private sector R&D. David currently leads an international research project on the organization, performance and viability of free and open source software.

"Open Science" as Data - Driven Science Ecosystem - From a Viewpoint of Japan, and with Past Community Practices

Yasuhiro Murayama

(Natl. Inst. of Info. and Communications Technology (NICT) / ICSU-World Data System)



Today “Open Science” is often discussed in context of digitization of research data ecocycle and research processes, and publication/sharing and dissemination of research outputs, especially in the light of international high-level science policy setting argument. The expected global research data infrastructure and research workflow on it will be designed. Important factors include new and advanced knowledge, technology and tools of ICT infrastructure, as well as a design concept for the upper application layer which can be derived from past

experiences of the research community's best practices of research data sharing and research performance in the era before the dawn of digitization.

Profile

Dr. Yasuhiro Murayama is a Research Executive Director of Strategic Program Office at National Institute of Information and Communications Technology (NICT) of Japan, Member of Science Council of Japan, and also serving as ex officio of ICSU-World Data System (WDS) Scientific Committee, Antarctic Observation Deliberation Committee at National Institute of Polar Research, G7 Open Science Working Group



as endorsed by G7 Science Ministers' Meeting May 2016. Also he served as a Visiting Professor at Research Institute of Sustainable Humanosphere of Kyoto University in 2013-2014, Board member of Japan Geoscience Union (2013-2014), member of Expert Panel of Open Science Promotion at Cabinet Office of Japan 2014-2015, OECD/GSF-WDS Working Group of Inter-

national Coordination of Data Infrastructures for Open Science (2016-2017), and High Level Expert Group of European Open Science Cloud of European Commission (2015-2017). He was awarded by Japan's Minister of Education, Culture, Sports, Science and Technology in 2007. Dr. Murayama received his Ph.D. from Kyoto University in 1993.

Enabling Open Research

Heather Joseph (SPARC North America)



Globally, funders are placing a growing emphasis on opening up many aspects of the research process - from requiring open access to articles and data sets, to encouraging use of pre-prints, to actively exploring open peer review - citing a host of benefits that such openness enables. The increasing adoption of policies supporting these open behaviors has presented a variety of new complexities to all stakeholders in the research enterprise, from individual researchers to research institutions as a whole. This talk will explore both the challenges and opportunities that the movement towards a more Open research enterprise presents, and suggest strategies for accelerating and smoothing the transition process.



Profile

Heather Joseph has served as SPARC's Executive Director since 2005. She has focused SPARC's efforts on supporting new models for the open sharing of digital articles, data and educational resources. Under her stewardship, SPARC has become widely recognized as the leading international force advocating for effective open access policies and practices. Based in Washington, D.C., Ms. Joseph regularly serves as an advisor to U.S. policy makers on issues relating to open policy. As a member of the U.S. Department of Commerce Data Advisory Council, she is tasked with providing input to the U.S. Secretary of Commerce on open data policies. She has served in similar roles for the U.S. National Institutes of Health, the 2016 Presidential Transition Team for Open Data, and the U.S. National Academy of Science.

Keiko Kurata (Faculty of Letters, Keio University)



The Research lifecycle, from searching many information resources, collecting and analyzing research data to preparation of research results, have been transited to digital form.

Traditionally academic

libraries have supported research activity by providing the information resources such as academic journals, academic books, etc. However, the progress of electronic journals and open access has begun to transform this role. In addition, university have been forced to reconsider their role for supporting research activity with that national and international environment for

open science movement have promoted. This presentation will examine how academic libraries and universities can support researchers in terms of research lifecycle in digital era.

Profile

In 1987 she finished graduate school of library and information science at Keio University. In 1988 she served as a lecturer at faculty of letters, Keio University, associate professor in 1993, and professor in 2001. Her research interest is scholarly communication, especially digitization of information media, open access, research data. She is a member of the SPARC Japan Governing Board.

Ideal Scholarly Communication Environment Provided by University Libraries in the Digital Age



Midori Ichiko (Mita Media Center, Keio University)



University libraries in Japan have supported researchers mainly by the collection and supply of materials for a long time. As digitalized more, the information environment of re-

searchers has been changed on a large scale, and there have been changes in the work of librarians and their behaviors toward the research support. However, we cannot say that the libraries support “open science”.

This talk discusses the reality of libraries, researchers, and publishers from my experiences and considers a direction where the university libraries in Japan could go ahead.

Profile

Midori Ichiko is Administrative Director of the Mita Media Center, Keio University. She is a member of the Steering Committee of the Japan Alliance of University Library Consortia for E-Resources (JUSTICE) and the SPARC Japan Governing Board.

Panel Discussion



Summary:

There was an exchange of opinions between speakers and the audience during the panel discussion session. Dr. Kei Kurakawa summarized it as follows:

- Topic 1 (Knowing about the present situation of science through looking into the past)

We would like to present a framework for discussions about how scientific knowledge should be managed in the context of recent “Open Science” that emerged after researchers had become familiar with the environment of scientific resources, more specifically electronic journals, through overviewing the environment of science in the past as far back as the seventeenth century. In the sense that the information is obtainable via the Internet, there is continuous flow from electronic journals to Open Science. However, researchers are bewildered between the current evaluation standard of research based on priority and the mood to release the data from ongoing processes, which are incompatible with each other. Thus, researchers are inclined to expect that something strange might happen, which cannot be easily determined as continuous or discontinuous.

- Topic 2 (A knowledge theory in the future)

Let us consider how knowledge ought to be after the age of Open Science, i.e., the current information revolution, with reference to the recent major topics of research data, Open Access, and artificial intelligence. First, regarding research data, their production is supposed to be triggered by the sense of wonder that is the fundamental motivation of science. Nevertheless, the front line of science is far away from that supposition in that research data are prioritized in production according to the degree of its urgency. Next, Open Access, the new form of licensing academic papers enables knowledge to spread, with the support of new services such as machine translations, across language barriers. Then, artificial intelligence that is making a significant social impact has been proven to be useful in research processes, so that we need to certainly utilize artificial intelligence in the future. Simultaneously, we need to care about the role of humans in science and humanity, in education for the next generation in order to prevent unfavorable side effects of artificial intelligence. Now, science is in question how it ought to be expanded while it keeps providing good externalities and researchers’ codes of conduct are being maintained in a democratic manner.



Moderator: Yasunori Fukagai

(Graduate School of International Social Sciences, Yokohama National University)

Profile

Yasunori Fukagai is professor at Yokohama National University, International Graduate School of Social Sciences. Following to the academic carrier at other institutions since 1983, he moved to Yokohama National on 2005. During the academic years of 2014 and 2015, he took the role of the director of the University Library of YNU. He works on the fields of history of ideas and social



ethics. In August 2014, he organized the thirteenth conference of the International Society for Utilitarian Studies in Yokohama. Adding to the major topics of his research, he recently considers the new possibilities of “analogue humanities” linked with the growing basis of digital humanities. Very recently, he contributed to the Journal of College and University Libraries an article entitled “Media for Knowledge, Institutionalization of Science, and the Sphere of Open Science (1)” written in Japanese (DOI:<https://doi.org/10.20722/jcul.1701>). He is a member of the SPARC Japan Governing Board.

Attendee Feedback

(person affiliated with university library)

– I thought that we should take open science into account in our future research. Nonetheless, in universities that do not intend to become research universities, few researchers would see the necessity of open science; hence, open science is not likely to be introduced to those universities unless the universities top decides so.

(person affiliated with business/libraries)

– The discussion at the end was intriguing; I actually thought that it was literally *beyond open science*. I would suggest that it would have been even better if there had been more talk about libraries.

(university researcher)

– It was a fantastic event. As I have been perceiving most of the SPARC Japan events as rather practical than otherwise (while understanding the significance of them being so), I think that now is about the time to have such widely scoped events and discussions focusing on science and knowledge. They fit

the needs of the time. It was really interesting this time. [From a live broadcast viewer]

(researcher)

– This seminar made me think that we should think more about how we should consider open science at this time when science is changing from paper-and-publication-oriented to digital-oriented. It can be considered the democratization of science, but I would say that more people should examine what it specifically means. It seems to me that research result management systems can reasonably be made private. I also found that we should take into consideration the fact that researchers’ ways of using libraries have been changed drastically by digitization when we think about the role of libraries. There should be differences between the time when information had to exist as physical objects and the time when it can be digitized

Afterword

😊 When the planning of this seminar started in September, a SPARC Japan Governing Board member presented “Open Science” as a highly abstract topic and gave me a list of reference papers. While I read those papers, I was shocked to be lifted on the abstract level of thought from concrete level as of everyday work all at once. In preparing for the event, I bore in mind that we are cooperating with SPARC North America, tried to investigate the topic of Open Science as deeply as possible, and finally selected appropriate speakers. It was the most fulfilling time for me in the three years of working group as well as the most nerve-racking management with the speakers not fixed until the last moment. I would like to express my sincere thanks to those who allowed me to learn through this opportunity and those who worked together with me.

Kei Kurakawa
(National Institute of Informatics)

😊 As the main subjects of discussions have become broader, such as from published articles to research data in general and from open access to open science, it is essential to deal with the question “What is science?” I

believe that we would not have been able to tackle that question successfully without the past activities of SPARC Japan. I would like to note that the dialog between the people in charge of this seminar during the course of planning was truly exciting with the knowledge and experience of different individuals creating synergy.

Kazuhiro Hayashi
(National Institute of Science and
Technology Policy)

😊 I participated in planning of this seminar and also the second seminar this year. Although a clear answer is yet to be found to the question of how the relation between open science and libraries should be, I think that the relation is essential if library staff want to improve themselves and make serious contributions to academic research. As I was a member of the planning WG of the SPARC Japan Seminars for three years, I hope that this seminar will play a role in better connecting the distribution system of academic information with researchers and librarians.

Shigetoshi Kajiware
(Muroran Institute of Technology Library)



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