Workshop on Mathematics Publishing

Co-organized by Project Euclid and Mathematical Society of Japan
Supported by SPARC Japan, National Institute of Informatics

Location: Tokyo University of Science (TUS), Room 842 of the Kagurazaka Building.
(8^{th} building on the 4^{th} floor)
1-3 Kagurazaka, Shinjyuku-ku, Tokyo 162-8601 JAPAN
Date: March 26, 2012
Time: 9:00 to 18:00

Workshop Overview
The workshop will focus on mathematics publishing and the challenges and opportunities faced by society and academic publishers today. Topics include: current publishing practices and challenges, marketing and promotion, moving from print to electronic publishing, journal production strategies, and new business models.

9:00 Introduction and Overview of Workshop
Mira Waller, Project Euclid Manager

9:15 – 10:40 Society Mathematics Publishers
Presenters will speak about current publishing practices, challenges they are facing in their publishing operations, and any future plans or obstacles for their publications.

9:15 Introductions by David Ruddy, Director of Scholarly Communications Services, Cornell University Library, Project Euclid

9:20 Don McClure, Executive Director, American Mathematical Society

Society publishers are sensitive to the wishes of different constituencies: society members, research libraries, authors and editorial boards. Balancing the needs of the different constituencies helps point the direction of the society as a publisher in resolving controversial issues. I shall make a few brief general remarks about mathematics journals and the state of the mathematics research literature. Then I shall describe how the AMS is addressing challenges such as "open" access and strained acquisition budgets.

9:40 Yoshio Tsutsumi, Kyoto University, representing Mathematical Society of Japan

I will talk about the mission, the current situation and the future plan of the *Journal of the Mathematical Society of Japan*. The talk includes, for example, the invitation of associate editors from abroad and the archiving of old volumes for future use.

10:00 Chang-Ock Lee, Secretary General, Korean Mathematical Society

Past, Present and Future of Journals published by Korean Mathematical Society. The Korean Mathematical Society (KMS) currently publishes three journals: Journal, Bulletin, and Communications. The first two are indexed in Science Citation Index (SCI). In this talk, we discuss current publishing practices of our

three journals, challenges we are facing in publishing operations, and future plans and obstacles for our publications. In addition, we present some thoughts for the Euclid Project and KMS publications in connection with electronic version.

10:20 Susan Hezlet, Publisher, London Mathematical Society

The LMS has been publishing since 1865 and while there have been many changes to the medium of publishing, the reasons we publish have been constant: authorization, dissemination, income, and preservation of the mathematical research literature. We have successfully used the subscription model for buying journals but in recent years there has been pressure to support open access policies. We have also been involved in the move of journals from commercial publishers to learned societies. In the last eight years we have taken on three journal projects: *Compositio Mathematica*, the *Journal of Topology*, and *Mathematika*; I will use these examples to show why moving journals and changing access models is not a simple task.

10:40 Questions /Discussion

11:00 Break

11:15 – 13:00 Departmental Mathematics Publishers

Presenters will speak about current publishing practices, challenges they are facing in their publishing operations, and any future plans or obstacles for their publications.

11:25 Introductions by Mira Waller, Project Euclid

11:30 Kunimochi Sakamoto, Managing Editor, *Hiroshima Mathematical Journal*

I will give a brief history of our journal, and talk about our statistics on submission and publication. Finally I will explain the difficulties we are facing, and present questions to other journal editors for solutions, if any.

11:50 Ken-ichi Shinoda, Managing Editor, *Tokyo Journal of Mathematics*

A review of the short history of our journal, in which we also show fundamental datum; e.g., total number of submitted papers and accepted papers. Then we explain the problems we are facing, and the solutions we are trying.

12:10 Masanori Ishida, Managing Editor, *Tohoku Mathematical Journal*

Tohoku Mathematical Journal celebrated its centennial in July 2011. 49 volumes of the first series were published in 33 years from 1911, and the second series has been published since 1949. The electronic edition started from 2005 and the open access to the all back issues older than five years began in 2010.

12:30 Nobuhiro Innami, Editor-in-Chief, *Nihonkai Mathematical Journal*

I will give a brief history of *NMJ*, the present situation and some problems we are facing, such as electronic editing, reduction in submission, tendencies

among the authors, finding reviewers, time spent editing, the fact that many editors are retiring within the next three years, etc.

12:50 Questions /Discussion

13:00 Lunch Break

14:00 – 15:55 Journal Publishing Essentials

Topics for this session include transitioning from a print to an electronic environment, promotion and marketing of journals in the print and digital worlds, and digitization of current and back content.

14:00 Introductions by Erich Staib, Senior Editor, Duke University Press

14:05 Erich Staib, Duke University Press

Journal Promotion and Sales. I plan to share some thoughts on the importance of marketing in journal publishing in the digital age and how not-for-profit mathematics journals might most effectively direct their own promotional efforts; and to provide a brief update on current and potential sales to library consortia and "new" markets (such as China).

14:25 Tetsuji Miwa, Managing Editor, *Kyoto Journal of Mathematics*

I would like to discuss the change in the editorial policy caused by the change of publishers when *JMKU* changed its title to *KJM*, and its publisher from Kinokuniya to DUP. In my opinion, the big factor was not the transition from a print to an electronic environment but rather shifting to journal production by means of partnerships; a shift from indifference to enthusiasm.

14:45 David Ruddy, Project Euclid

The shift in academic journal publishing from print to electronic has increased demands made on publishers. While electronic publishing once seemed to be merely a new method of distribution, it has now stimulated significant change in the way scholarly communication is discovered, accessed, used, and managed. The intellectual content is still primary, but both librarians (as subscribers) and end users have new and rapidly evolving expectations about the set of services that publishers provide. This talk will discuss these new expectations and services.

15:05 Masakazu Suzuki, Kyushu University, Kyushu Institute of Systems, Information Technologies and Nanotechnologies; Director, Science Accessibility Net

Making Mathematical Documents Accessible to Machine and to All. In view of future advanced processing on mathematical information by computer, beyond simple keyword searching, we continue to address the challenge of developing a system to convert retro-digitized or newly born mathematical papers to unified digital documents, those that include more logical structures behind the original

images. The work is intimately related to assistive technology. In the lecture, the current status of our system will be presented with demonstrations.

15:25 Questions / Discussion

15:40 Break

16:00 – 17:30 Business Models for Scholarly Publishing

A survey of scholarly publishing models, including perspectives from different communities—for example: librarians, mathematicians and publishers.

16:00 Introductions by Mira Waller, Project Euclid

16:05 Mira Waller, Project Euclid

An Overview of Different Scholarly Publishing Models. Although scholarly communication, intellectual by-play, and the dissemination of research continue to play a vital role in the advancement of human knowledge and scientific discovery, evolving technologies coupled with unstable economic conditions have led to an environment of experimentation in the way we distribute, fund, display and publish. This talk will explore several alternative scholarly publishing models and their funding plans, such as Public Library of Science, Columbia Earthscape, BioOne and Project Euclid.

16:25 Jun Adachi, Professor and Director of Cyber Science Infrastructure Development Department, National Institute of Informatics

Recent Progress in Open Access in Japan. The recent activities concerning Open Access, such as institutional repositories and open access journals in Japan are introduced as well as activities of NII's SPARC Japan initiative. The new policy of the Japanese Ministry of Education (MEXT) is also included in the presentation.

16:45 Takao Namiki, Associate Professor of Mathematics, Hokkaido University

In Japan about 75,000 articles on mathematics have been published in huge titles of academic journals, ranging from major titles of mathematical journals to minor titles of departmental bulletins. The number of titles which have any articles on mathematics is no less than 400, estimated by Mathematical Reviews database. Now about 80 titles have some level of electronic presence and this means that at least 40,000 articles are retrodigitized. The details will be reported in the presentation.

17:05 Koichi Ojiro, Director, Library Liaison Office, National Institute of Informatics and Executive Officer, Japan Alliance of University Library Consortia

JUSTICE, Japan Alliance of University Library Consortia for E-Resources is a new consortium established 1 April 2011 through an alliance between the Japan Association of National University Libraries (JANUL) Consortium and the Private and Public University Libraries Consortium (PULC). The key activity of JUSTICE is not just using the combined strength of the two consortia to negotiate group

purchases (group licenses) with publishers of e-journals and other e-resources, but also includes a vision of a wide range of activities such as creating an infrastructure for managing e-resources, expanding a national collection, guaranteeing long term preservation and access, and human resource development. This talk provides the background of the conceptualization and development of JUSTICE and an overview of its current operations as well as looking forward to future goals that JUSTICE hopes to achieve

17:25 Questions / Discussion

17:40 Closing remarks
David Ruddy, Project Euclid

Speakers

Jun Adachi is the Director of the Cyber Science Infrastructure Development Department of the National Institute of Informatics (NII), Japan. He has participated in NII's system development projects such as NACSIS-CAT cataloging system, the Electronic Library Service and Academic Portal Sites, and now directs NII's various initiatives on academic information infrastructure, such as SINET4, the institutional repository initiative for Japanese universities, and SPARC Japan. Jun Adachi is also a professor of the Graduate School of Information Science and Technology, University of Tokyo. He has been studying information technology on digital contents mainly composed by text information, including information retrieval, data engineering, modeling, etc. He also conducts research on information systems for management of heterogeneous information and semi-structured information such as WWW and XML.

Susan Hezlet has worked in academic publishing for twenty years and runs the publishing operation of the London Mathematical Society. The society publishes twelve journals and four book series, mostly through collaboration with university presses and learned societies including the AMS, RAS, IoP, OUP and CUP. Until January 2012, she was Treasurer of the Association of Learned and Professional Society Publishers and continues as a member of their Council. Prior to working in publishing, she obtained her Doctorate of Phil in Theoretical Particle Physics from Oxford University in 1993.

Nobuhiro Innami has been working for Niigata University for more than 20 years. His area of specialization is geometry of geodesics, such as convexity in Riemannian manifolds, manifolds without conjugate points, geodesic flows of Riemannian manifolds, convex billiards, and Steiner ratio for surfaces. He has been an editor of *Nihonkai Mathematical Journal* from the first issue.

Masanori Ishida Doctor of Sciences, is a professor at the Mathematical Institute Tohoku University. His research field is algebraic geometry, especially toric varieties and semigroup rings. He has been Managing Editor of the *Tohoku Mathematical Journal* since 2008.

Chang-Ock Lee received his Ph.D. from the Department of Mathematics, University of Wisconsin-Madison in 1995. From 1995 to 2000 he was at Inha University, first as a Full Time Lecturer (1995) and then as Assistant Professor. In 2000 he became an Assistant Professor at the Korea Advanced Institute of Science and Technology (KAIST), and in 2002 an Associate Professor. He is currently a Professor at KAIST and the Secretary General of the Korean Mathematical Society.

Donald McClure is Executive Director of the American Mathematical Society. Prior to joining the AMS in 2009, he served on the faculty of the Division of Applied Mathematics at Brown. His main research interests are in probability, approximation theory, and the use of probabilistic models in image analysis and computer vision. He served two terms as Chair of the Division of Applied Mathematics and was also a Trustee and Associate Treasurer of the AMS.

Tetsuji Miwa graduated from Tokyo University in 1973. He Graduated from Graduate School of Mathematics, Tokyo University in 1975, becoming a Research Assistant and later Associate Professor (1984) and Professor (1993) at the Research Institute for Mathematical Sciences,

Kyoto University. He is currently a Professor in the Graduate School of Science, Kyoto University (2000). He is currently Managing Editor of the *Kyoto Journal of Mathematics*.

Takao Namiki (Ph. D.), is Associate Professor of Mathematics at Hokkaido University. His research belongs to an area of dynamical systems and ergodic theory especially known as complex systems including cellular automata, function dynamics and quantum walks. He also works jointly with librarians to develop a digital mathematics library as an overlay of digital repositories.

Koichi Ojiro is Director of the Library Liaison Office at the NII (National Institute of Informatics) in Tokyo. He has been working as the Executive Officer of the newly founded JUSTICE (Japan Alliance of University Library Consortia for E-Resources) since April 2011. Mr. Ojiro began his professional career in 1983 as a cataloger at Nagoya University Library. In 1988 he moved to the Tokyo Institute of Technology Library and subsequently he has worked for several libraries, including the National Diet Library, Chiba University Library, and University of Tokyo Library. Mr. Ojiro publishes articles and holds lectures on themes related to institutional repositories, library consortia and scholarly communication in the digital age. He also serves on the Science Council of Japan's working group on issues relating to scholarly journals.

David Ruddy is Director of Scholarly Communications Services, Cornell University Library. His unit is responsible for user support and operational management of the Library's largest repositories, including arXiv, Project Euclid, eCommons (Cornell's institutional repository), and the CUL Archival Repository (a digital preservation system). He has been involved with Project Euclid since its inception in 1999 and is the Cornell lead on that effort. He holds an M.A., M.S., and Ph.D., all from the University of Michigan.

Kunimochi Sakamoto is a Professor in the Department of Mathematical and Life Sciences at Hiroshima University. From 2000-2009 he was on the Editorial board and from 2009 on he has been the Managing Editor for *Hiroshima Mathematical Journal*. His research interests are dynamical systems, nonlinear ordinary and partial differential equations, and singular limit analysis of pattern formation from the viewpoint of geometric analysis.

Ken-ichi Shinoda is a Professor in the Department of Information and Communication Science at Sophia University, and he holds a Doctorate of Science from Tokyo University. He has been the Director of Graduate Course in Mathematics from April 1995 to March 1997 and the Chairperson of the Department of Mathematics, from April 1997 to March 1999, and from April 2007 to March 2011. From April 1997 to March 1999 he was an Editor of *Tokyo Journal of Mathematics*, and he has been Managing Editor since April 2002.

Erich Staib started his scholarly journal publishing career in graduate school in the mid-1980s as an editorial assistant with a small humanities journal. After two years of gainful employment within the Journals Division at Duke University Press, Erich joined Oxford University Press where he held a variety of positions within OUP's Journals Division. In 2004 he rejoined Duke University Press, and is currently responsible for helping to bring in new publishing initiatives to the Journals Division and for managing DUP's Science, Technical, and Mathematics journals publishing partnerships.

Masakazu Suzuki received his Bachelor of Science and Master of Science degrees from Kyoto University in 1969 and 1971 respectively, and degree of Doctorat d'État ès Sciences at Université Paris VII in 1977. During his career in CNRS from 1975 to 1977 and in Kyushu University from 1977, his main research subjects have been complex analysis and algebraic geometry. Since the mid-1990's, his research interests include mathematical document recognition and mathematical knowledge management. He is currently a professor emeritus of Kyushu University, an associate researcher at Kyushu Institute of Systems, Information Technologies and Nanotechnologies (ISIT), and the representative director of the Non-profit Organization Science Accessibility Net to help visually impaired people in scientific fields. Dr. Suzuki is a member of Mathematical Society of Japan (MSJ) and the Institute of Electronics, Information and Communication Engineers (IEICE).

Yoshio Tsutsumi is a Professor in the Department of Mathematics, Kyoto University. He is Editor-in-Chief of the *Journal of the Mathematical Society of Japan* as well as Associate Editor of *SIAM Journal on Mathematical Analysis*, *Annals Henri Poincare*, and *Funkcialaj Ekvacioj.*

Mira Waller possesses an MLS and comes to Project Euclid from the Duke University Medical Center Library and Archives, where she was Assistant Director of Archives. In her role as Project Euclid Manager, she acts as an advocate for Project Euclid's users, partner publishers, and the library community; and works with them to further enhance and develop Project Euclid's infrastructure. Project Euclid (http://projecteuclid.org) is a not-for-profit publishing platform and community, jointly managed by Cornell University Library and Duke University Press, focused on helping small and independent publishers of mathematics and statistics join forces and thrive in the online environment.