

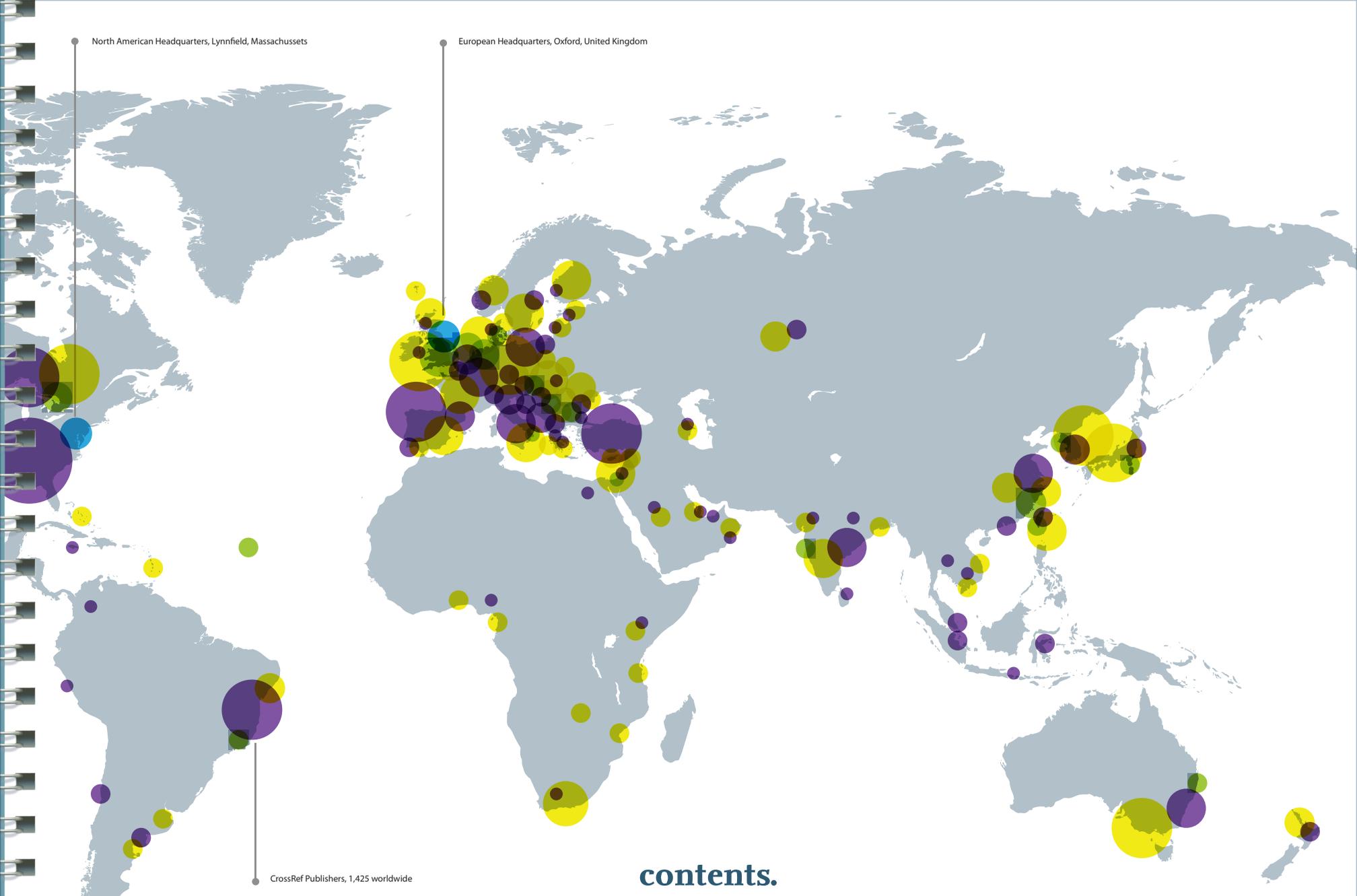


linking the global research community.



With over 3,500
participants in 81
countries, CrossRef
has grown to be
the global standard
for reference linking.

CrossRef's goal is to be a trusted collaborative organization with broad community connections; authoritative and innovative in support of a persistent, sustainable infrastructure for scholarly communication.



contents.

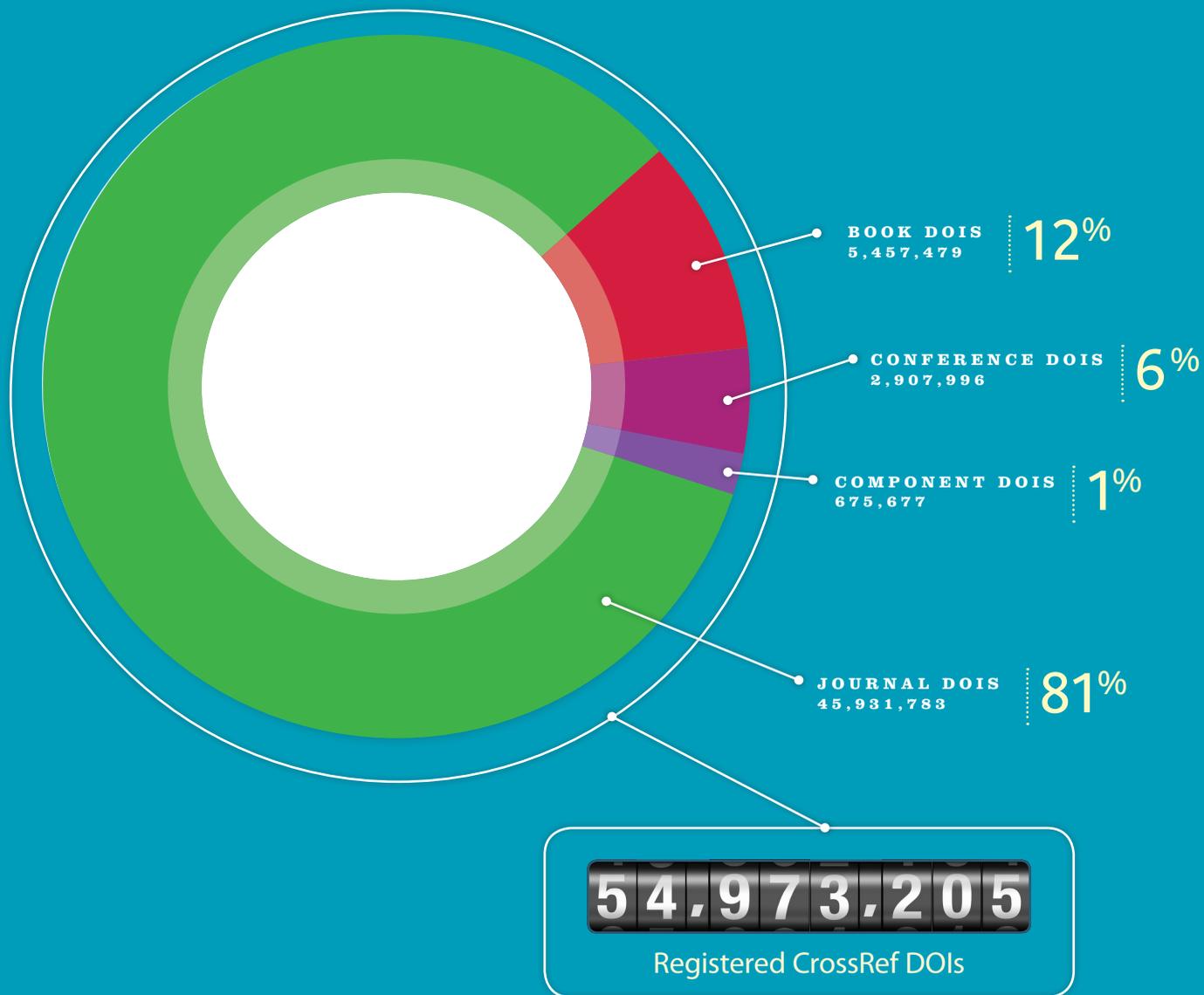
- 3 Letter from the Executive Director
- 5 Letter from the Chair

- 7 Technical Outlook
- 8 Financial Statement
- 9 Letter from the Treasurer

- 11 Review of the Organization
- 18 CrossRef Affiliates

- 20 Board of Directors
- 21 Measuring CrossRef's Growth

CrossRef Dashboard



Over 54 million items of scholarly content are now registered in the CrossRef system, including journal articles, conference proceedings, books and book chapters, reference entries, technical reports, standards, and data sets, with books the fastest-growing category.



The pace of change in scholarly publishing is accelerating, as Open Access business models gain traction and funders establish new policies covering the dissemination of the results of research. In this environment, CrossRef's focus on helping publishers ensure the integrity of their content and add value to their offerings in visible ways is proving to be well placed. The CrossCheck plagiarism screening service (powered by iThenticate) generated significant interest from the start, and since its launch in 2008, the issue of originality in published content has become an even greater concern. We are seeing a similar upward trend of interest in the recently launched CrossMark service, which provides visual identification of publisher-maintained versions of articles as well as alerts of major updates and other relevant information for scholarly content. From the beginning, CrossRef's policy of neutrality and the wide range of organizations represented by our membership and on the Board of Directors have positioned us to track industry trends and develop services that become a fundamental part of the scholarly publishing process.

Through FundRef, another such initiative, publishers and funding agencies are collaborating to standardize the names of funders and add them to the metadata that CrossRef collects for scholarly documents, along with grant numbers. This will make it possible to track the research findings that result from specific funding sources, an area of strong interest for funders whether

they be private or government agencies. Work on FundRef has been facilitated by our involvement in the ORCID (Open Researcher and Contributor ID) initiative, through which we have established relationships with a number of funding agencies. Geoffrey Bilder, CrossRef's Director of Strategic Initiatives, has recently completed his term as interim Technical Director for ORCID, working on a part-time

basis; I continue to represent CrossRef on the ORCID Board of Directors. ORCID is on schedule to launch its researcher identification registry by the end of 2012.

CrossRef continues to grow in participation, usage, and the number of content items represented in the system. The voting membership is currently 1,300, an 18 percent



increase over the past year. There are now 55.5 million content items registered in the CrossRef system, including more than 5 million DOIs representing more than 300,000 books (still the fastest-growing content type) at the title and chapter level. The number of CrossRef DOI resolutions — instances of scholars and researchers clicking on links — surpassed 359 million from January through June 2012, a 31 percent increase over prior year.

The Lynnfield office moved to a new, larger location late in 2011, and the staff there grew in 2011/2012 with the addition of Amy Bosworth, part-time A/R assistant, and Mike Yalter, Software Developer. In Oxford, Rachael Lammey, Product Manager joined us as maternity cover for Kirsty Meddings.

The CrossMark service launched in April 2012, enabling researchers to verify that the versions of documents they are reading are the most recent and reliable ones and bringing publishers an effective way to promote their role in curating scholarly content. As of May, some 20,000 articles from 21 journals were displaying the CrossMark logo, with approximately 300 indicating changes or revisions.

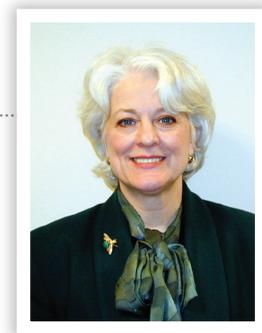
CrossRef Cited-by Linking is growing rapidly, spurred in part by Elsevier's 2011 deposit of 200 million references. Over the past year, there has been a 70 percent increase in the number of items with references deposited in the service, and a 74 percent increase in the number of actual cited-by links.

As part of our strategic focus on improving core services, CrossRef is committed to making it easier for smaller publishers to implement outbound linking in their journals and participate in the Cited-by Linking service. To enable the extraction of references from scholarly documents in PDF format, we have made an open-source set of tools known as PDF-EXTRACT available on CrossRef Labs.

As the use of DOIs proliferates, CrossRef is collaborating in a variety of ways to ensure DOI interoperability across different systems and promote new ways of surveying the scholarly literature. CrossRef and DataCite, another DOI Registration Agency, are working to ensure that there is persistent linking between datasets and the journal articles that cite them. We are also working with the Open Citations Project, which enables the construction of graphics that represent the citation network of a selected journal article.

For many, CrossRef is associated primarily with DOIs and reference linking. At the same time that we continue to extend and enhance linking, the success of CrossCheck and CrossMark demonstrates that CrossRef has a broader strategic role in the world of scholarly publishing.

Edward N. Pentz, Executive Director



CrossRef has consistently been on the leading edge of publishing, with a broad constituency and a neutrality that enable it to identify and address emergent issues within the industry. Founded on a service that freed publishers from cumbersome bilateral linking agreements, CrossRef is now helping publishers deal with the escalation of plagiarism in the online environment through the CrossCheck service, and the CrossMark service is bringing publishers a new way of advancing and communicating their role in the stewardship of scholarly literature. The makeup of the Board of Directors represents our constituency well, and the skill and experience of Directors and CrossRef staff alike make for effective collaboration.

During the July 2012 Board Meeting, we conducted a strategic review of the organization, examining our current status in the context of past and future goals. As CrossRef's membership grows, the proportion of smaller publishers increases, and an ongoing goal is to facilitate their participation in CrossRef's services. The launch of PDF-EXTRACT, which allows them to extract references from PDF versions of scholarly documents, is a notable advance on that front; going forward, we will be looking for ways to help smaller publishers participate in text and data mining, a major area of strategic focus for CrossRef. Metadata quality is another central concern; in addition to being a vital component of CrossRef's core linking service, high-quality metadata is essential to new discovery and

metrics capabilities that CrossRef supports.

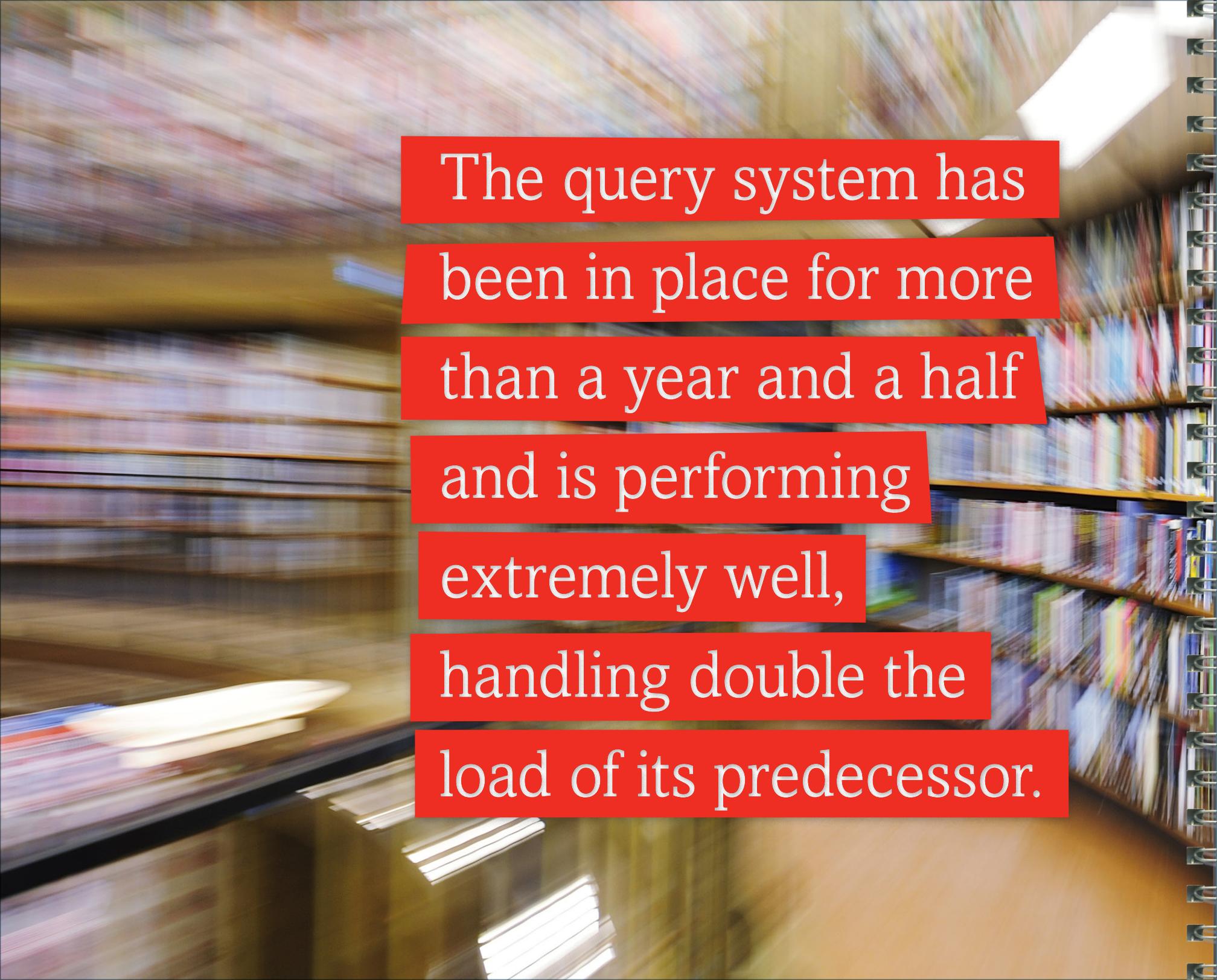
Independence and sustainability are founding principles of CrossRef that guide the Board's considerations, going back to the early repayment of the startup loans. The completion of the system rewrite, achieved at below-budget cost, has brought us greater autonomy through our ownership of the source code while boosting performance significantly at a time of enormous growth both in the number of CrossRef DOIs registered and in the number of resolutions. An important part of that growth is in the number of CrossRef DOIs registered for books, which are now taking their rightful place in the body of online scholarly literature.

While CrossRef's core linking service

operates in the background, recent initiatives hold the potential for raising our profile. Work on FundRef has brought greater recognition among funding agencies of CrossRef and publishers for the role they play in the dissemination of knowledge, a trend that could extend to policy makers. We encourage members to highlight all CrossRef-related activity on their Web sites, from their use of CrossRef DOIs to participation in services such as CrossCheck, CrossMark, and Cited-by Linking.

As CrossRef grows in the value it provides to publishers and to the scholarly community, we never lose sight of its core purpose — to make it easier for researchers to find and use scholarly literature.

Linda Beebe
Linda Beebe, Chair

The background of the slide is a blurred photograph of a library. On the right side, there are tall bookshelves filled with books. On the left side, there is a desk with a computer monitor and keyboard. The overall image has a motion blur effect, suggesting a fast-paced or dynamic environment.

The query system has
been in place for more
than a year and a half
and is performing
extremely well,
handling double the
load of its predecessor.

TECHNICAL OUTLOOK.

The rewrite of CrossRef's software system

is functionally complete, with all CrossRef systems running on the new code since May 2012. The system comprises two main components, the query system and the deposit system, which were developed in sequence. The query system has been in place for more than a year and a half and is performing extremely well, handling double the load of its predecessor. CrossRef's sole ownership of the new code makes it significantly easier for staff to test and modify the system, and incremental changes to the query logic over the first half of 2012 have improved the query success rate noticeably. The more recently deployed deposit system incorporates new features such as the ability to process unstructured citations in reference deposits.

With any new system, the flow of live data with all its variability inevitably reveals minor issues that advance testing has not uncovered. Some adjustments have been required, as was the case following the deployment of the previous system. It is anticipated that this initial period of minor correction will run its course in the months ahead.

Approximately three years ago, CrossRef signed a five-year agreement with technology partner Atypon to co-develop the new system, anticipating that

to be the time required. The project was actually completed in two and a half years, coming in under budget and with CrossRef staff taking a more dominant role than expected in its design and management. CrossRef and Atypon have consequently renegotiated the terms of the agreement for its final two years, yielding CrossRef additional cost savings and with Atypon continuing to provide support on an as-needed basis.

The recently launched CrossMark service has been integrated into the main

production system, following its migration from the alpha system built by Geoffrey Bilder, Director of Strategic Initiatives. The pilot version of the FundRef service is also running on the main system. CrossRef's ownership of the source code has greatly facilitated work on both these initiatives, and the recent hire of Software Developer Mike Yalter in Lynnfield has further bolstered CrossRef's ability to maintain and develop the system and to provide support for the organization's steadily growing membership.

FINANCIAL STATEMENT.

REVENUE GROWTH BY YEAR

(MILLIONS)



STATEMENT OF ACTIVITIES

YEARS ENDED DECEMBER 31, 2011 AND 2010

	2011	2010
REVENUE AND OTHER SUPPORT:		
Deposit fees	\$3,026,934	\$2,701,238
Member fees	1,851,161	1,652,524
Interest income	4,714	11,806
Non-linking fees	—	5,250
Loss on foreign exchange	(13,818)	(6,939)
Loss on disposal of property and equipment	(32,625)	—
Miscellaneous income	—	7,594
TOTAL REVENUE AND OTHER SUPPORT	4,836,366	4,371,473
EXPENSES:		
Salaries and benefits	2,284,788	1,977,558
Data center	537,955	485,364
IDF fees	435,549	348,323
Travel and meetings	332,692	252,387
Professional fees	225,265	259,642
Office and other	204,644	98,539
Depreciation and amortization	193,043	149,058
Rent	120,337	76,064
Advertising and marketing	95,762	101,808
Contractor Fees	69,471	70,913
Dues and subscriptions	34,091	25,430
Insurance	26,339	22,721
New initiatives	8,960	—
TOTAL EXPENSES	4,568,896	3,867,807
Change in unrestricted net assets	267,470	503,666
Unrestricted net assets, beginning of year	3,200,526	2,696,860
Unrestricted net assets, end of year	\$3,467,996	\$3,200,526



CrossRef completed 2011 in a strong financial position. Revenue of \$4,836,000 was approximately three percent over budget, and expenses of \$4,569,000 were approximately two percent over budget, yielding an operating margin of 5.5 percent. In a year of substantial growth, diversification, and investment, revenue and expenses were respectively 12 and 19 percent over prior year, and the fact that these results were close to budget reflects that the expansion was carefully planned and well executed. The overall cash position of just over \$1.5 million (including a \$500,000 reserve) is sufficient to cover one quarter's operating expenses, in accordance with policy established by the Board of Directors.

The ongoing growth in CrossRef's membership continues to be a factor in driving revenue. Many of the newer members are smaller publishers located around the globe, and the collection of fees has become more complex, requiring greater effort to maintain optimal cash flow. That said, the Web-based accounting system implemented last year allows us to track accounts much more effectively than before.

Operations in 2011 called for significant investments in staff expansion, facilities and infrastructure, and new initiatives. The Lynnfield office moved to a larger location, and we completed the system rewrite, gaining new strength and independence through our renegotiated agreement with

ongoing technology partner Atypon. We had budgeted a data center depreciation charge of \$460,000, but were able to complete the process for \$319,000.

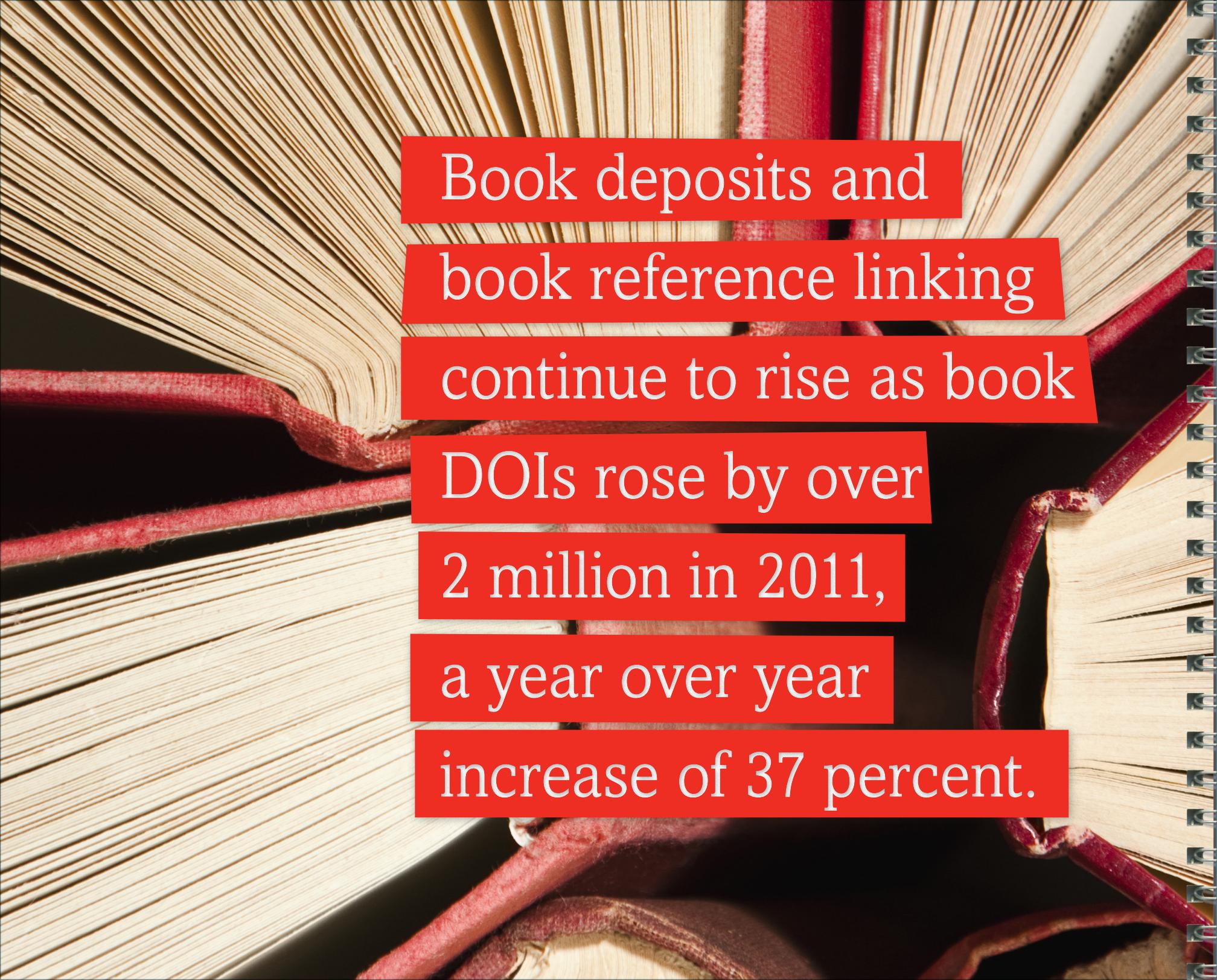
As anticipated, CrossCheck has moved into profitability, with more than 300 publishers now participating, and we expect CrossMark to do the same in the months ahead as more publishers complete the process of incorporating its functionality into their workflows. FundRef has generated strong interest among the various stakeholders, but with the pilot still in the proof-of-concept stage, we have not yet developed a revenue and cost model for the service.

The 2011 audit proceeded smoothly, underscoring CrossRef's prudent financial management and the staff's effective use of the new accounting system.

With the attainment of the 50 million DOI deposit milestone, the promising launches of its newer services, and the ongoing growth in its membership and revenue, CrossRef is more solidly established than ever, a testament to the skill and commitment of staff and executives as well as to the broad support of the world's scholarly communities. In a time of significant change and economic uncertainty, CrossRef continues to go from strength to strength.

A handwritten signature in black ink, appearing to read 'Ian Bannerman'.

Ian Bannerman, Treasurer



Book deposits and
book reference linking
continue to rise as book
DOIs rose by over
2 million in 2011,
a year over year
increase of 37 percent.

In 2011, as in 2010, the PILA Board of Directors engaged an outside facilitator to assist with their July meeting, an annual forum for discussing CrossRef's strategic direction. Over a day and a half, Board members conducted an intensive review that resulted in the first-time formulation of a strategic roadmap, which organizes projects and activities into 11 thematic areas and prioritizes them by fiscal year commitment through 2013.

KEY PROJECTS FOR 2012

- Improve core services and back-office processes, add more tools for small publishers
- Increase book deposits and book reference linking
- Expand use of the CrossCheck service and work with iParadigms to develop iThenticate system enhancements
- Launch the CrossMark service and market it effectively
- Continue to support the development of ORCID
- Work further with DataCite on DOI interoperability
- Through FundRef, work with publishers and funders to associate publications with grants that support them
- Continue collaboration with Cambia to promote DOI linking between scholarly literature and patent literature
- Ensure the long-term persistence of CrossRef through financial, technical, and organizational back-up plans
- Promote industry engagement through staff participation in a wide variety of organizations
- Develop policies and best-practice guidelines for e-books and mobile devices

STRATEGIC INITIATIVES

ORCID

CrossRef has played a significant role in the development of the ORCID (Open Researcher and Contributor ID) initiative, with Geoffrey Bilder, Director of Strategic Initiatives, devoting half his time to his role as ORCID's Interim Technical Director for the nine months ending June 2012. Geoffrey oversaw Phase 1.0 of the system development, with Semantico as the vendor; work was completed at the end of May 2012 and came in under budget. During the development process, code donated by Thomson Reuters was reworked into a stand-alone system with a more flexible privacy model and the capacity to work with third-party systems for manuscript tracking, grant submission, and other such functions. Going forward, CrossRef will focus on ensuring interoperability between ORCID and the CrossRef system. CrossRef continues its representation on the ORCID Board of Directors.

CrossMark

The April launch of the CrossMark service marked the culmination of another major project, serving researchers through its clear identification of publisher-maintained versions of articles and publishers through its capacity to convey information on updates and a range of nonbibliographic metadata. CrossRef continues to make minor adjustments to the service in accordance with publisher requests.

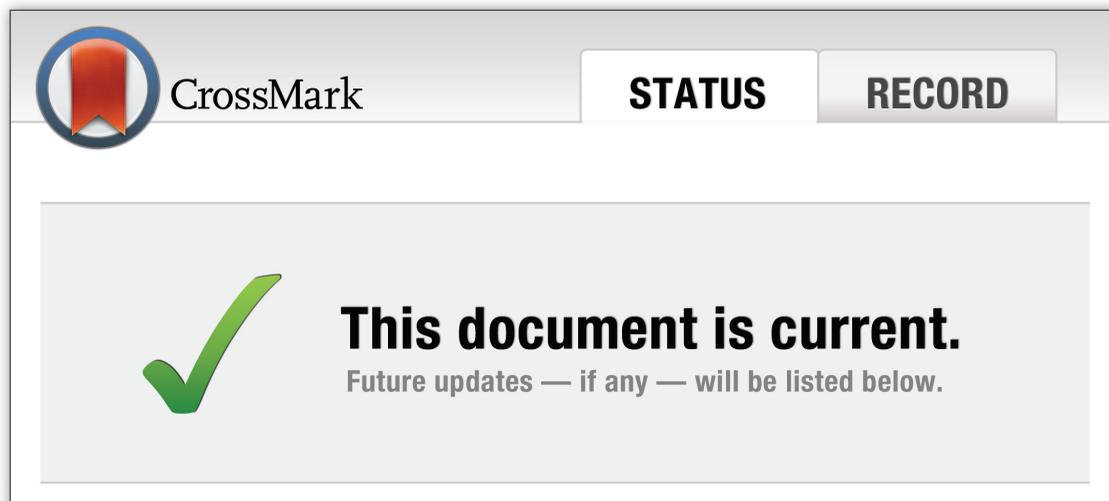
FundRef

Now in pilot phase, the FundRef initiative will make it possible to correlate research findings and funding sources. FundRef will make use of mechanisms pioneered for CrossMark, adapting its schema to make sure that the metadata deposited — standardized identifiers for funding agencies and grant numbers — are searchable. Publishers who are CrossMark members will be able to display this metadata through CrossMark, but it will also be available through other APIs for those not participating in CrossMark.

Linked Data

CrossRef and DataCite, both DOI Registration Agencies, have unified their mechanisms for

linking data, implementing HTTP Content Negotiation so that researchers and third parties can submit queries for CrossRef and DataCite DOIs without having to differentiate between them. Potentially, it should be possible to discover which data sets (represented by DataCite DOIs) are cited in a particular article (represented by a CrossRef DOI) and which articles cite a particular data set, but there is not yet sufficient consistency in the way data sets are cited. Both CrossRef and DataCite have issued data set citation guidelines, and CrossRef is working with the National Science Foundation-funded DataONE initiative to address the issue. DataCite and the International Association of Scientific, Technical, and Medical Publishers (STM)



 CrossMark

STATUS **RECORD**

 **This document is current.**
Future updates — if any — will be listed below.

have issued a joint statement, supported by CrossRef, promoting best practices for linkability and citability of research data. CrossRef has also been in discussions with the International DOI Foundation (IDF) regarding the adoption of HTTP Content Negotiation as standard practice for all Registration Agencies.

Patent Literature

CrossRef continues to work with Cambia, the Australia-based creator of The Lens, on enabling linking between citations of scholarly literature in patent literature and citations of patents in scholarly writings. The Patent Lens is an online resource for searching a large body of international patent documents, and CrossRef and Cambia have released a proof of concept for a system allowing one to select a CrossRef DOI and find out which patents in the Lens database cite it. The goal is to promote conversations with patent offices around the world that could lead to their assignment of DOIs to patents.

PDF-EXTRACT

CrossRef has provided a set of tools that can make it easier for smaller publishers to create outbound links in their publications and participate in Cited-by Linking, allowing them to extract references from their PDF-format journals and have them resolved through the CrossRef system. Known as

PDF-EXTRACT, this open-source resource is available through CrossRef Labs, and the intention is that its use be extended in time to books, major reference works, and patent literature. At present, the source code is available for download and local use; the next phase will be the creation of a user-friendly interface hosted on the CrossRef Web site.

CrossRef Labs

Since 2009, CrossRef Labs has existed as a “sandbox” for the ready exploration of new tools and capabilities, some of which go on to become production services. TOI DOI, for example, has gone from being an illustration of how a DOI shortening service might work to implementation by the IDF as shortDOI™. Other recent projects (in addition to PDF-EXTRACT) offer a range of useful functionality. Randoim, a tool that CrossRef has used internally for generating random groups of DOIs to test its system, was made publicly available in response to social media postings by a researcher seeking a random sampling of journal articles for a study. Citation Formatting Service was launched after attendees at a conference told CrossRef staff it would be useful to be able to obtain CrossRef metadata formatted according to specific style sheets. This service, which joins the content negotiation function of the Linked Data initiative to an open-source formatting engine, has become popular and is now available at crosscite.org, maintained

jointly with DataCite.

Reference Distribution, Text Mining, Citations and URLs

While CrossRef began as a business-to-business initiative enabling reference citation literature, there is growing interest among researchers and third parties in obtaining reference metadata for new discovery and metrics services, and some large publishers have begun to make their references freely available. CrossRef is well placed to play a role in this, and now offers member publishers the option of including their references in UNIXML and OAI-PMH query results. There is growing interest among researchers in text mining, and CrossRef is holding conversations with organizations such as the International Association of Scientific, Technical and Medical Publishers (STM) to explore ways of enabling it. The number of citations that include URLs has increased dramatically in recent years — formerly approximately one in 50, now one in 15 — a trend revealed by examination of the deposits coming into Cited-by Linking. Since URLs are not permanent, with a half-life of approximately six years, this poses a threat to the permanence of the scholarly record. CrossRef is investigating the possibility of collaborating with the Internet Archive to provide a back-up linking service that would kick in automatically in the event of a broken URL.

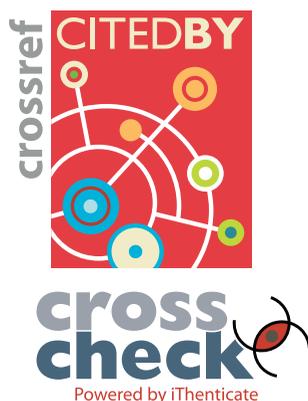
ONGOING SERVICES

Cited-by Linking, CrossRef Metadata Services, CrossCheck

As of August 2012, nearly 300 publishers are participating in Cited-by Linking, making use of approximately 40 percent of the DOIs deposited in the CrossRef system, and there are more than 300 million cited-by links. The service has continued to grow rapidly following Elsevier's 2011 deposit of 200 million references.

CrossRef Metadata Services (CMS) has grown extensively, providing an effective way for publishers to promote the discoverability of their content through a flexible model that gives them control over which organizations can receive their data. CrossRef member publishers are alerted whenever new CMS customers sign up, and given 30 days to opt out of delivery of their metadata to them.

More than 300 publishers are now participating in CrossCheck, contributing to a growing database of current and archival scholarly literature with which submitted work can be compared to screen for originality.



CrossRef Policies

CrossRef continues to emphasize the importance of following the DOI Display Guidelines as revised in 2011, to ensure that the DOI is immediately recognizable as a live link, easy to copy and paste into a browser window's address bar, and actionable for linked data applications.

DOI Developments

In May 2012, the DOI was published as an International Standards Organization (ISO) standard (ISO 26324:2012, Information and documentation – Digital object identifier system), following its approval in November 2010. The International DOI Foundation (IDF) now includes nine Registration Agencies with the recent addition of the Japan Link Center (JaLC), a government-supported national initiative to gather scientific and academic metadata held by a broad range of institutions. As noted under Strategic Initiatives, CrossRef has been working with the DataCite Registration Agency to ensure that their DOIs are interoperable for linking purposes, and to promote that capability across Registration Agencies.



GOVERNANCE, STAFF, ADMINISTRATIVE FUNCTIONS, AND INDUSTRY ACTIVITY

The PILA Board of Directors comprises 16 representatives, listed further on in this report and at www.crossref.org. At the 2011 Annual Member Meeting, five Directors were re-elected, and one newly elected, to serve three-year terms. Chi Wai Lee, World Scientific Publishing, was newly elected. Re-elected were Terry Hulbert, American Institute of Physics; Linda Beebe, American Psychological Association; Gerry Grenier, IEEE; Patricia Shaffer, INFORMS; and Rebecca Simon, University of California Press.

The 2011 Annual Member Meeting was held in Cambridge, Massachusetts, on November 15, drawing record attendance and with a keynote speech by Ellen Ruppel Shell of the Boston University Center for Science and Medical Journalism titled "Sex and the Scientific Publisher: How Journals and Journalists Collude (despite their best intentions) to Mislead the Public." Other speakers were Phil Davis, Publishing Consultant, on retracted articles on the Internet; Helen (Y. H) Zhang, JZUS (Journal of Zhejiang University-SCIENCE), on the Committee on Publication Ethics (COPE) study on plagiarism detection; and Ivan Oransky, Retraction Watch, on the relationship between retraction practices and scientific transparency. As in 2010, the previous day was given over to an

informative program of CrossRef Workshops. The 2012 Annual Member Meeting will be held at The Royal Society in London, U.K., on November 14, with a keynote speech by digital archivist Jason Scott.

The Lynnfield CrossRef staff grew in 2011/2012 with the addition of Amy Bosworth, part-time A/R assistant, and Mike Yalter, Software Developer. In Oxford, Rachael Lammey joined the organization as Product Manager, filling in for Kirsty Meddings during her maternity leave. The Web-based accounting system adopted in 2011 has been a success, automating all invoicing and collections processes, and there are plans to incorporate additional functionality

for budgeting and forecasting, Customer Relationship Management (CRM), electronic signatures, and e-voting for Board elections.

Staff members continue their involvement in industry organizations. Executive Director Ed Pentz is Research Officer of the UKSG (formerly the United Kingdom Serials Group) and a member of the UKSG Project TRANSFER Working Group, Treasurer of the International DOI Foundation (IDF), and a member of the ORCID Board of Directors. Geoffrey Bilder, Director of Strategic Initiatives, is an Editorial Board member of *Learned Publishing* and a member of the Socio-cultural Issues Working Group of the Data Observation Network for Earth (DataONE).

Chuck Koscher, Director of Technology, serves on the National Information Standards Organization (NISO) Board of Directors and the NISO/NFAIS (National Federation of Advanced Information Services) Supplemental Journal Article Materials Technical Working Group. Carol Meyer, Business Development and Marketing Manager, serves as President of the Society for Scholarly Publishing (SSP) and is a member of the Book Industry Study Group (BISG) Identification Committee, the American Association of Publishers Professional and Scholarly Publishing (AAP/PSP) Books Committee, and the NISO E-book Special Interest Group.

CROSSREF PARTICIPATES IN KEY INDUSTRY EVENTS AND CONFERENCES. THE FOLLOWING ARE REPRESENTATIVE APPEARANCES FROM 2011.

PRESENTATIONS ON CROSSMARK FOR LIBRARY AUDIENCES:

American Library Association (ALA) Midwinter Meeting

American Association for the Advancement of Science (AAAS), Pacific Division, Library Science Symposium

Medical Library Association (MLA) Annual Meeting and Exhibition

Charleston Conference

TALKS AT PUBLISHING CONFERENCES:

UKSG (formerly the United Kingdom Serials Group)

Society for Scholarly Publishing (SSP)

The Association of American Publishers Professional/Scholarly Publishing (PSP) Division Annual Conference

Fifth Bloomsbury Conference on E-publishing and E-publications

Buying & Selling eContent

PRESENTATIONS FOR GLOBAL PUBLISHING MEMBERS:

Vilnius (Lithuania) Book Fair

African Journal Partnership Project Annual Meeting

Annual CrossRef Seminar, Florianopolis, Brazil

Korean Institute for Scientific and Technical Information (KISTI) Annual Members Meeting

First Congress of the Asia Pacific Association of Medical Editors (APAME)

PRESENTATIONS ON ORCID:

Identity in Research Infrastructure and Scientific Communication, Helsinki, Finland

ORCID Outreach Meeting, Geneva, Switzerland September 2011



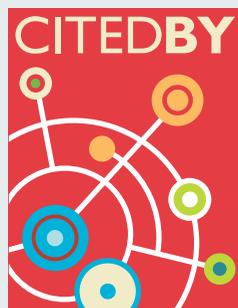
CrossRef's™ collaborative reference linking service helps publishers provide affordable, reliable links, increasing usage and traffic to publications. This promotes the development and cooperative use of new and innovative technologies to speed and facilitate scholarly research.

Interesting Facts

Launched in 2000

Over 55 million DOIs

Over 4,000 publishers and societies



CrossRef Cited-by Linking allows publishers to discover how their publications are being cited in other publications and to display that information to their readers.

Interesting Facts

Launched in 2004

280 participating publishers

Over 300 million cited-by links



CrossCheck™, a joint initiative between CrossRef and iParadigms, surpasses existing plagiarism screening tools by checking submissions against an authoritative and comprehensive database. The database includes full text scholarly and academic publications and web resources with high-quality scholarly content.

Interesting Facts

Launched in 2008

Over 300 publishers

Over 32 million articles to cross-check



CrossRef Metadata Services, or CMS, offers an easy-to-use suite of tools for authorized partners to collect metadata on a cross-publisher basis to streamline their own crawling, indexing, and linking services.

Interesting Facts

55 million+ metadata records registered in CrossRef via our OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting) interface

Over 25 affiliates participating





CrossMark

CrossMark™ is a simple way for publishers to mark authoritative versions of their published literature and to signal to researchers that publishers are committed to maintaining their scholarly content.

Participants include Cambridge University Press, Elsevier, International Union for Crystallography, Mednet, Oxford University Press, Philippine Association of Institutions for Research, Science Reviews 2000 Ltd, The Royal Society, Wiley-Blackwell, Vilnius Gediminas Technical University

Interesting Facts

Launched in May 2012

60,000 documents display CrossMark logos on live content

Of these, approximately 350 have some sort of correction



CrossMark

CrossMark®. The mark of reliable research.

Learn more at www.crossref.org/crossmark.

CROSSREF AFFILIATES.

CROSSREF QUERY AFFILIATES

ACADEMIC ANALYTICS, LLC
www.academicanalytics.com

ACCELRYX
www.symyx.com

ATLAS CO, LTD.
www.atlas.jp

BEIJING MAGTECH CO.
www.magtech.com.cn

BIO-RAD LABORATORIES, INC.
www.bio-rad.com

BOWKER
www.bowker.com

CADMUS COMMUNICATIONS
www.cadmus.com

CLOCKSS
www.clockss.org

CNPq
www.cnpq.br

DATA CONVERSION LABORATORY
www.dclab.com

DECHEMA
www.dechema.de

EBSCO PUBLISHING
www.ebsco.com

ENERGY TECHNOLOGY DATA EXCHANGE
www.etde.org

EUROPEAN PATENT OFFICE
www.epo.org

EXPERT PUBLISHING LLC
www.expub.com

FIZ KARLSRUHE
www.fiz-karlsruhe.de

FRAUNHOFER GESELLSCHAFT
www.irb.fraunhofer.de

IFACTORY
www.ifactory.com

IFIS PUBLISHING
www.ifis.org

INERA
www.inera.com

INFORMATION EXPRESS (reviews.com)
www.reviews.com
www.ieonline.com

INFOTRIEVE
www.infotrieve.com

INTERNATIONAL ATOMIC ENERGY AGENCY
www.iaea.org

JAPAN MEDICAL ABSTRACTS SOCIETY (JAMAS)
www.jamas.or.jp

JAPAN SCIENCE AND TECHNOLOGY AGENCY (JST)
www.jst.go.jp

KONINKLIJKE BIBLIOTHEEK, NATIONAL LIBRARY OF THE NETHERLANDS
www.kb.nl

MEKENTOSJ BV
www.mekentosj.com

MENDELEY
www.mendeley.com

NATIONAL CENTER FOR PTSD
www.ncptsd.org

NATIONAL RESEARCH INFORMATION CENTER

ORCID
www.orcid.org

PALGRAVE MACMILLAN
www.palgrave.com

PORTICO
www.portico.org

PROQUEST INFORMATION & LEARNING
www.proquest.com

PUBGET
www.pubget.com

QUOSA, INC.
www.quosa.com

REED TECHNOLOGY
www.reedtech.com

SCIENCE CHECK
www.sciencecheck.org

SEED MEDIA
www.seedmediagroup.com

SEMPERTOOL
www.sempertool.dk

SERIALS SOLUTIONS
www.serialssolutions.com

SYMPLECTIC LTD.
www.symplectic.co.uk

THE ARCTIC INSTITUTE OF NORTH AMERICA
www.ucalgary.ca/aina

THE CAMBRIDGE CRYSTALLOGRAPHIC DATA CENTRE
www.ccdc.cam.ac.uk

THE CHARLESWORTH GROUP
www.charlesworth.com

THE SHERIDAN GROUP
www.sheridan.com

TDNET
www.tdnet.com

TECHSET COMPOSITION LIMITED
www.techset.co.uk

UNIVERSITY OF KANSAS, CENTER FOR RESEARCH, INC
www.rgs.ku.edu

WANFANG DATA CO., LTD.
www.wanfangdata.com

WTI-FRANKFURT EG
www.wti-frankfurt.de

SPONSORING ENTITY

BEPRESS
www.bepress.com

MEDRA
www.medra.org

OASPA
www.oaspa.org

CROSSREF SERVICE PROVIDERS

ALLEN PRESS
www.allenpress.com

APTARA
www.aptaracorp.com

ARIES SYSTEMS
www.ariessys.com

ATYPON
www.atypon.com

BOARDITOR, INC.
www.boarditor.com

EX LIBRIS SFX
www.exlibris-usa.com

HIGHWIRE
www.highwire.org

INASP/JOL
www.inasp.info

INERA
www.inera.com

METAPRESS
www.metapress.com

OCLC PICA OL2
www.fdusa.com/linking.html

OKS PREPRESS SERVICES
www.oksgroup.com

PREMEDIA GLOBAL
www.premediaglobal.com

PUBGET
www.pubget.com

PUBLISHING TECHNOLOGY
www.publishingtechnology.com

RIVER VALLEY TV
river-valley.tv

SANBI PRINTING CO., INC.
www.sanbi.co.jp

SILVERCHAIR
www.silverchair.com

WT COX INFORMATION SERVICES
www.wtcox.com

**ENHANCED CROSSREF
METADATA SERVICES
AFFILIATES (ENHANCED
CMS)**

ACADEMIC MEDICAL CENTER
www.amc.nl

BIOINFOBANK INSTITUTE
www.bioinfo.pl

CAMBIA
www.cambia.org

**COPYRIGHT CLEARANCE CENTER
(CCC)**
www.copyright.com

DIALOG
www.dialog.com

EASYBIB.COM
www.easybib.com

EPISTEMIO, LTD.
www.epistemio.com

**EUROPEAN BIOINFORMATICS
INSTITUTE (EMBL)**
www.embl.de

EX LIBRIS
www.exlibrisgroup.com

INFORMASCOPE
www.informascope.com

KNODE
www.knodeinc.com

LABTIVA
www.labtiva.com

MESUR
www.mesur.org/MESUR.html

NASA ADS
adswww.harvard.edu/

OCLC
www.oclc.org

**ONTARIO COUNCIL OF UNIVERSITY
LIBRARIES (OCUL)**
www.ocul.on.ca

PROQUEST LLC.
www.proquest.com

PUBGET INC.
www.pubget.com

REPRINTS DESK
www.reprintsdesk.com

SCIRUS
www.scirus.com

**SCHOOL OF ADVANCED STUDY,
UNIVERSITY OF LONDON**
www.sas.ac.uk

SUNMEDIA
www.sunmedia.co.jp

SYMPLECTIC LTD.
www.symplectic.co.uk

THE JOURNALWIKI
www.thejournalwiki.com

**TECHNICAL INFORMATION CENTER
OF DENMARK (DTU LIBRARY)**
www.dtic.dtu.dk/English

THIRD IRON
www.thirdiron.com

**CROSSREF END-USER
LOOK-UP AFFILIATES**

AVEDAS
www.avedas.com

CINECA
www.cineca.it

CITEULIKE/OVERSITY
www.citeulike.org

JOURNALFIRE, INC
www.journalfire.org

LUCARE SYSTEMS, LLC
www.lucare.com

THE MAZUR GROUP
www.mazur-www.harvard.edu

NORTHUMBRIA LEARNING
www.nlearning.co.uk

PAPERCHECK.COM
www.papercheck.com

PAPERPILE
www.paperpile.com

SONNY SOFTWARE
www.sonnysoftware.com

SWISS ACADEMIC SOFTWARE
www.citavi.com

TALIS
www.talis.com

UNIVERSITY OF NORTH FLORIDA
www.unf.edu

**ASSOCIATED
ORGANIZATIONS**

**ASSOCIATION OF SUBSCRIPTION
AGENTS AND INTERMEDIARIES**
www.subscription-agents.org

**ASSOCIATION OF LEARNED
AND PROFESSIONAL SOCIETY
PUBLISHERS (ALPSP)**
www.alpsp.org

**THE EUROPEAN MOLECULAR
BIOLOGY ORGANIZATION (EMBO)**
www.embo.org

NFAIS
www.nfais.org

PUBLISHERS LICENSING SOCIETY
www.pls.org.uk

SERMO
www.sermo.com

BOARD OF DIRECTORS.

CHAIR

Linda Beebe

Alternate: Gary VandenBos
American Psychological Association
Term: 2011–2014
www.apa.org

TREASURER

Ian Bannerman

Alternate: Gillian Howcroft
Informa UK
Term: 2009–2012
www.tandf.co.uk

EXECUTIVE DIRECTOR/ ASSISTANT SECRETARY

Ed Pentz

CrossRef
www.crossref.org

SECRETARY

Lisa Hart

CrossRef
www.crossref.org

BOARD MEMBERS

Terry Hulbert

Alternate: Evan Owens
American Institute of Physics
Term: 2011–2014
www.aip.org

Bernard Rous

Alternate: Scott Delman
Association for Computing Machinery
Term: 2009–2012
www.acm.org

Chris Shillum

Alternate: Philippe Terheggen
Elsevier
Term: 2010–2013
www.elsevier.com

Ahmed Hindawi

Alternate: Paul Peters
Hindawi
Term: 2009–2012
www.hindawi.com

Miranda Walker

Alternate: Rose Futchko
Institute for Operations Research and
the Management Sciences (INFORMS)
Term: 2011–2014
www.informs.org

Gerry Grenier

Alternate: Joe Buzzanga
The Institute of Electrical and
Electronics Engineers, Inc. (IEEE)
Term: 2011–2014
www.ieee.org

Steven Hall

Alternate: James Walker
IOP Publishing
Term: 2010–2013
www.iop.org

Robert Campbell

Alternate: Craig Van Dyck
John Wiley & Sons, Inc.
Term: 2009–2012
www.wiley.com

Howard Ratner

Alternate: Jason Wilde
Nature Publishing Group
Term: 2010–2013
www.nature.com

Stuart Taylor

Alternate: Charles Lusty
The Royal Society
Term: 2010–2013
www.royalsociety.org

Carol Richman

Alternate: John Shaw
Sage Publications
Term: 2009–2012
www.sagepub.com

Wim van der Stelt

Alternate: Ray Colon
Springer Science + Business Media
Term: 2010–2013
www.springerlink.com

Gabriel Alvaro

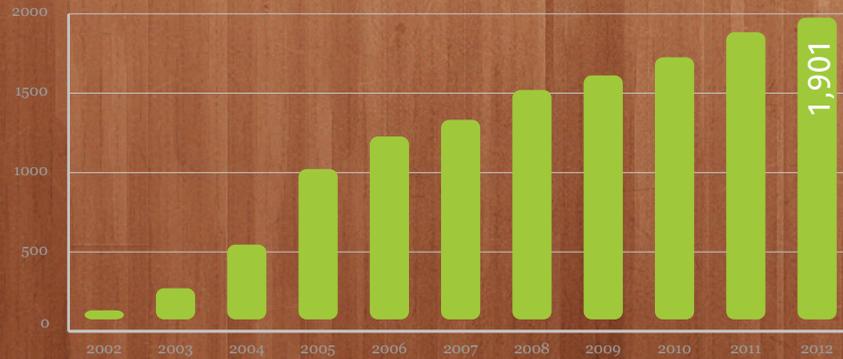
University of California Press
Term: 2011–2014
www.ucpress.edu

Chi Wai (Rick) Lee

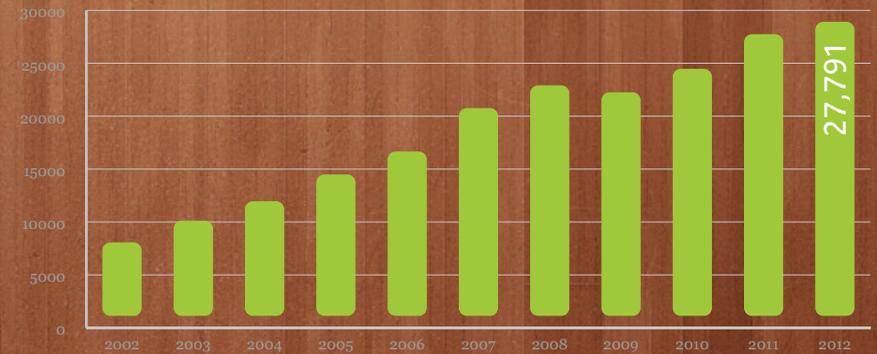
Alternate: Yubing Zhai
World Scientific Publishing
Term: 2011–2014
www.worldscientific.com

Measuring CrossRef's Growth

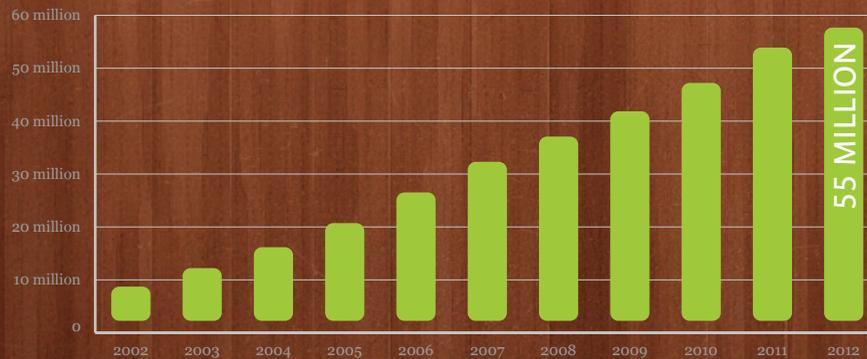
LIBRARY MEMBERSHIP.



JOURNALS IN THE CROSSREF SYSTEM.



DOI RESOLUTIONS.



CROSSREF VOTING MEMBERS.

