

**Spectrum:
Concordia University Research Repository
Sixth Annual Report, 2014-15
May 2016**

Spectrum: Concordia University Research Repository was launched in October 2009. Built using EPrints open source software (<http://www.eprints.org/>), it contains book chapters, articles, conference papers, datasets, and other works authored or created by members of the Concordia community. After a wide-ranging discussion involving faculty from across the University, in the spring of 2010 the Concordia Senate passed a resolution encouraging all Concordia researchers to deposit their peer-reviewed articles in Spectrum.¹ It is also the repository for Concordia theses and dissertations. This sixth annual report summarizes progress and achievements from **November 1, 2014 to December 31, 2015**, and outlines developments for Spectrum’s seventh year.

Usage of Spectrum

Access to Spectrum’s full text content between November 1, 2014 to December 31, 2015 was **1,032,087** downloads. Total or cumulative downloads of Spectrum materials from September 1, 2009 to December 31, 2015 was **3,136,193**.

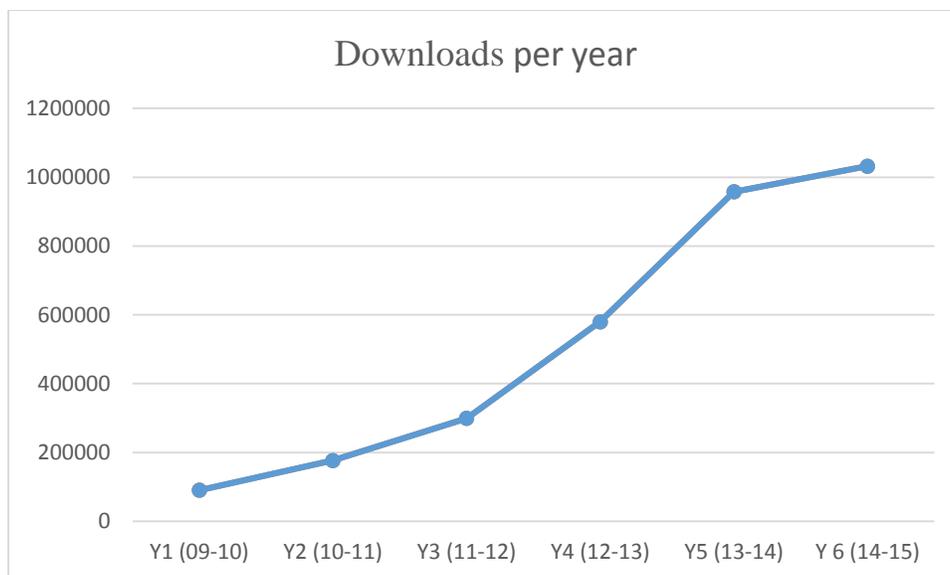


Table 1. Number of full-text downloads from Spectrum per year over a six year period.

¹ Concordia University Senate Resolution on Open Access, 2010, <http://library.concordia.ca/research/openaccess/SenateResolutiononOpenAccess.pdf>.

Spectrum is accessed by users from across the globe; the top ten countries represented by downloads for the period covered in this report are (in descending order): Germany, United States, China, Canada, United Kingdom, India, France, Ukraine, Japan, and Poland.

Spectrum's download statistics track information about individual authors and deposits. The following authors' works were heavily downloaded during Spectrum's sixth year.

| Author | Department/Faculty | Downloads |
|---------------------|---|------------------|
| M. Laroche | JMSB | 11,958 |
| M. J. Maduna | Individualized Program | 11,392 |
| C. Okoli | JMBS | 6,928 |
| Y. Korotkevich | Psychology | 6,559 |
| M.-O. Richard | JMSB | 6,529 |
| P. Pragasen | Electrical and Computer Engineering | 6,142 |
| R. Sankaranarayanan | JMSB | 5,396 |
| S.D. Pawlowski | Louisiana State University* | 5,187 |
| M.R. Habibi | JMSB | 5,158 |
| J. Y. Zhou | Computer Science and Software Engineering | 4,548 |

Table 2. Most requested Spectrum authors, 2014-15.

The following 10 documents in Spectrum received the most full-text downloads from November 1, 2014 to December 31, 2015.

| Author | Document Type | Title | Downloads |
|--|----------------------|--|------------------|
| Maduna, Mamokhele Julia | MA Thesis | An analysis of the use of teaching aids and the implications for teaching and learning mathematics in Qwaqwa phase one schools (South Africa). | 11,392 |
| Korotkevich, Yana | MA Thesis | Simulation of Cognitive Aging and Effects of Cognitive Load on Finger Sequencing Performance | 6,559 |
| Okoli, Chitu and Pawlowski, Suzanne D. | Journal Article | The Delphi method as a research tool: an example, design considerations and applications. | 5,187 |

*Co-author with C. Okoli.

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|---|-----------------|---|-------|
| Laroche, Michel, Habibi, Mohammad Reza, Richard, Marie-Odile and Sankaranarayanan, Ramesh | Journal Article | The effects of social media based brand communities on brand community markers, value creation practices, brand trust and brand loyalty | 5,118 |
| Zhou, Jun Ying | MA Thesis | Functional requirements and non-functional requirements : A survey | 4,548 |
| ben Moussa, Mohamed | PhD Thesis | The Use of the Internet by Social Movements in Morocco: Implications for Collective Action and Political Change | 4,005 |
| Abou Farah, Carlos | MA Thesis | Ultimate bearing capacity of shallow foundations of layered soils. | 3,808 |
| Chintapalli, Sridhar | MA Thesis | Preliminary structural design optimization of an aircraft wing-box | 3,700 |
| Ranjbaran, Arash | MA Thesis | Planning and control of high-rise building construction | 3,636 |
| Steenbergen, Candis | PhD Thesis | Passing on Feminism | 2,588 |

Table 3. Most requested Spectrum documents, 2014-15.

Growth of Content between November 1, 2014 and December 31, 2015

| Document Type | Number Deposited | Percentage of Total Deposits |
|-----------------------------|------------------|------------------------------|
| Thesis | 1058 | 87.4 |
| Article | 92 | 7.6 |
| Non-Thesis Graduate Project | 23 | 1.9 |
| Monograph | 13 | 1.1 |
| Monograph Chapter | 13 | 1.1 |
| Conference Paper | 8 | .7 |
| Dataset | 3 | .2 |

Table 4. Number of documents added to Spectrum by type and percentage of total, 2014-15.

Developments in 2014-15 and Goals for 2016-17

Several enhancements that were planned for Spectrum in 2015 were completed. The EPrints platform was upgraded to version 3.3.12 and a new statistical package was installed and made available (<http://spectrum.library.concordia.ca/cgi/stats/report/>). The upgrade of the platform includes improved searching through relevance ranking, an updated mobile-accessible interface, and other changes.

In December 2015 and January 2016 the Libraries worked with the Humanities PhD program to revise over 150 records for doctoral theses completed in that program. These were pre-2009 theses that were incorrectly categorized when they were first received into the repository.

In April 2015 the Department of Philosophy received permission from the School of Graduate Studies for students to deposit MA research papers in Spectrum (i.e., non-thesis graduate projects). The Department of Creative Arts Therapies has had the same permission for several years. Deposit by students is optional and is not a condition of graduation.

Altmetrics (e.g., citations on Wikipedia, Twitter, research blogs, etc.) are quantitative and qualitative data that are complementary to traditional, citation-based metrics. The display of altmetrics on relevant items in Spectrum will be explored in 2016-17.

ORCID (<http://orcid.org>) provides a persistent digital identifier that distinguishes researchers on the Web and linked data applications. ORCID identifiers are increasingly supported and used throughout the scholarly publishing process, allowing for integration in research workflows such as manuscript and grant submission and automated linkages between researchers and their publications. Spectrum now allows depositors to include their ORCID identifiers in their profiles. In addition, a plugin was installed that allows Spectrum editors to import publication metadata for a given ORCID. The development of integration of ORCID API with Spectrum will continue in 2016-17.

Digital preservation consists of policies and activities to ensure the enduring usability, authenticity, discoverability, and accessibility of content over the long term. Spectrum currently includes some format requirements for digital preservation purposes, such as the PDF/A requirement for theses. A set of tools will be added that will enable digital preservation planning to take place within Spectrum.

A new Tri-Council (SSHRC, NSERC, and CIHR) policy on open access (<http://www.science.gc.ca/default.asp?lang=En&n=F6765465-1>) came into effect in May 2015. This policy, in short, requires grant holders to either make their research available through either a journal that is open access or becomes freely accessible within twelve months of publication or through an open access institutional repository. This policy should greatly increase access to Canadian research outcomes and the Libraries are considering ways to harness this potential momentum, including the development of a mediated deposit service for faculty and other researchers.

Submitted by G. Little and T. Neugebauer