

## NRC Automotive partnership sparks insights and revelations

Over one year ago, with a mission to make serious inroads into the automotive sector, NRC began a full, comprehensive environmental scan of the automotive industry. The work was driven by top NRC players from the Industrial Research Assistance Program (NRC-IRAP), NRC-CISTI and the Industrial Materials Institute (NRC-IMI). Two crucial elements of the analysis were contributed by CISTI: a Competitive Technical Intelligence (CTI) assessment and a Strategic Technical Information Analysis (STIA).

In January 2008, following an extensive two-month investigation of the automotive industry, Technical Business Analyst Sylvain Durocher, submitted his findings in a CTI report entitled Automotive Overview. The report detailed industry trends, the structure of the Canadian industry, how the North-American supply chain structure works, key Canadian players, industry drivers and unique opportunities where NRC could apply its research and expertise.

Part two of CISTI's collaboration involved information specialists Susan Salo, from London, and Patrice Dupont, from Boucherville, working closely with Michel Dumoulin, Research Director of NRC-IMI, and his automotive team to produce a Strategic Technical Information Analysis (STIA) report. It reviewed Canada's automotive research and development between 1997 and 2007, including leading universities and government agencies. Through their publications and patents literature review, the researchers discovered a steady increase in Canadian automotive research and development and, that industry representatives did not consider NRC, among governmental organizations, as a research leader in this area. The representatives were more familiar with Natural Resources Canada's (NRCan) automotive research despite the fact that NRC produces far more research publications on the subject than NRCan.

The reports were very well received and highlighted the need for NRC to better promote its valuable research and expertise and consider funding further sector analyses.

## 2009 ICSTI Annual Conference in Ottawa June 9-11: Managing Data for Science

Sharing research data is essential for effective collaboration. Few scientists, however, have the time or resources to ensure sustainable access to data for joint projects, domain-specific applications or later, re-use.

The ICSTI 2009 conference will examine how publishers, librarians and researchers can work together to create structures for managing and communicating scientific data.

The conference program includes keynote speakers such as Lee Dirks from Microsoft Inc. and Paul Uhlir from the US National Research Council and experts from around the world who will explore the respective contributions of researchers, librarians and publishers to eScience Initiatives.

**NRC-CNRC**  
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### From Pam's Desk

I would like to take this opportunity to update you on some of our most recent activities:

- Our collaboration with Google Scholar, which brings our Discover collection to researchers using Google and Google Scholar, has launched successfully; and
- The Competitive Technical Intelligence team has had some wonderful successes over the past few months – some of these successes are profiled in this issue.

This is also an opportunity for me to provide you with an update about Strategic Review as I know that many of you will have questions. The Strategic Review decision means a challenging time ahead for everyone at NRC-CISTI. As you may know, the scope and impact of the Strategic Review decision on CISTI is very large, affecting all three of our programs: the Research Press, Information Intelligence Services, and the National Science Library.

The provision of scientific, technical and medical (STM) information remains a priority for NRC-CISTI. We will continue to partner with other organizations to fulfill CISTI's core role as part of Canada's innovation infrastructure, as feasible under the new model and budget. In other cases, we will look to deliver services via private-sector vendors or partners. CISTI will continue as both an NRC and national science library, but will function on a much smaller scale.

As well, the NRC Research Press and its services will be moved into the private sector as a not-for-profit corporate entity over the course of the next year. The mission and objectives of this new corporate entity will remain largely the same as the current ones of NRC Research Press.

As we move forward, we will be counting on your input to help shape CISTI's future and to ensure that you continue to value our programs and services.

## Google Scholar

NRC-CISTI meets the research community where they work through our new collaboration with Google Scholar. Researchers from Canada and beyond now have access to millions of scientific, technical and medical (STM) journal articles from NRC-CISTI's Discover collection through Google Scholar, part of the world's most used search engine. *Discover* provides an immediate payment and download service, meeting the demands of the fast-paced research environment.

In line with Canada's Science and Technology strategy as well as Science at Work for Canada, NRC's strategy, NRC-CISTI continues to improve access to STM information for Canadian research and innovation. We continue to provide value-added service by including open access content in the metadata crawled by Google Scholar.

This is an early release in collaboration with Google. We will adapt it over time according to your feedback. We would like to hear from you if you have suggestions for improvements or if you encounter performance issues. NRC researchers using Google Scholar will either be able to download the article immediately using *Discover* or will be directed to other document provision services.



## Canada Institute for Scientific and Technical Information (NRC-CISTI) Achievements since 2000

- 2000 CISTI Source launched | 1 million<sup>th</sup> document request received | ebooks of the Research Press Monograph Program made available through NetLibrary
- 2001 Research Press e-journals made freely available to Canadians through the federal Depository Services Program | New Directorate, NRC Information Services (NIS), created
- 2001-02 Plans underway for federal STM digital library
- 2002 CTI Program launched | Research Press launches new journal, *Journal of Environmental Engineering and Science* | Pay-per-view for Research Press Journals begins | CISTI Source Alerts begin
- 2003 CISTI takes on expanding role in regions with additional staff and locations | Research Press launches a Biography series | CISTI launches Secure Desktop Delivery (SDD)
- 2003-04 Online manuscript submission and peer review system (OSPREY) launched in collaboration with Commonwealth Scientific and Industrial Research Organisation, NRC's counterpart in Australia
- 2004 CTI pilot project launched with IRAP Atlantic/Nunavut – in its first year, it produces 125 deliverables
- 2005 Purchase of backfiles for close to 1200 titles from major publishers | SDD available for entire CISTI Journal collection | SDD Team wins the Agatha Bystram Award for Leadership from the Council of Federal Libraries | SDD Team wins the Information Management Community Recognition Award | Research Press launches its first full-text HTML article in September issue of *Canadian Journal of Botany* | Research Press' monograph *Blue Grouse* receives International Wildlife Publications Award for Outstanding Monograph
- 2005-06 Outsell Inc. reports that CISTI tops the list of information providers
- 2006 Federal Science eLibrary pilot project completed | Strategic Technical Information Analysis introduced | 10,000 STM articles, journals and reports from China, Korea, Taiwan and Japan are added to CISTI's Catalogue | Research Press adds 16th journal title, *Applied Physiology, Nutrition and Metabolism* | Research Press digitizes back issues back to 1951
- 2007 Pay-Per-Article service launched | Client Journal Group created at Research Press
- 2008 Pay-Per-Article service re-launched as *Discover* | Ground-breaking Places & Spaces exhibit comes to CISTI | CISTI takes part in Doors Open Ottawa | World-renowned P. Currie unveils name of newly discovered dinosaur species in Research Press monograph *A New Horned Dinosaur from an Upper Cretaceous Bone Bed in Alberta*
- 2009 NRC-CISTI to host ICSTI 2009 conference | Google Scholar and NRC-CISTI collaboration launched | NRC-CISTI now has a presence on Facebook | Special Libraries Association includes Research Press' *Botany* and *Canadian Journal of Forest Research* among the 100 most influential journals in biology and medicine over last 100 years | New Research Press Client Journal Web Platform launched

To learn more about these initiatives, check out the online version of this by visiting [www.cisti-icist.nrc-cnrc.gc.ca](http://www.cisti-icist.nrc-cnrc.gc.ca) and following the links to CISTI News.

Current document delivery prices extended until June 2009.  
Visit [cisti-icist.nrc-cnrc.gc.ca](http://cisti-icist.nrc-cnrc.gc.ca) for more information

## CNC/CODATA News



Pam Bjornson, Director General of NRC-CISTI and patron of the Canadian National Committee for CODATA, is pleased to announce the appointment of John Broome as Chair of CNC/CODATA, effective January 2009. Mr. Broome is Head of Data Management Strategy and Policy at the Earth Sciences Sector of Natural Resources Canada, with over 30 years experience in government and the private sector in the areas of geophysical modeling and imaging, GIS, data architecture, and data stewardship and policy.

Mr. Broome's vision is for CNC/CODATA, in collaboration with CISTI, CARL, and Canadian research granting councils, to help position Canada as a lead contributor to a future global grid of openly-accessible data and knowledge. He believes CNC/CODATA can increase its visibility and impact by asserting itself, in collaboration with NRC-CISTI, as the definitive Canadian source for expertise on data policy, stewardship, and strategy.

If you would like to know how you can participate in CNC/CODATA's activities, or to reach Mr. Broome or the CNC's Secretariat, please contact [CODATA@nrc-cnrc.gc.ca](mailto:CODATA@nrc-cnrc.gc.ca).



## Recognition for CISTI Oakville Staff

The IRAP Ontario Recognition Award for Value and Excellence (RAVE) is a newly formed awards program that is staff-driven and staff-managed. Hirem Baran and Martina Plejic, Information Intelligence Service staff located in Oakville, recently received the IRAP Appreciation Award. This award recognizes non-IRAP Ontario individuals or team that have made an outstanding contribution to IRAP Ontario. On behalf of your NRC-CISTI colleagues and senior management, we would like to congratulate you, CISTI's Oakville staff, on your newest award!

## Fuel Cell Technology Development Projects get the green light

If your noisy, energy-guzzling refrigerator, nightmares of a dead car battery or climate change worries woke you at 3 am last night—take heart—peaceful slumbers are on the way. Two advanced fuel cell technology development projects, with the help of NRC-CISTI's Competitive Technical Intelligence (CTI), may bring you quiet, reliable, renewable and environmentally-friendly energy to power your appliances, vehicle, house—and even ships, trucks and industrial plants—within a decade.

In July 2008, Dr. Walter Cicha, CISTI Technical Business Analyst, was asked by Alan Guest (Acting Coordinator of the Hydrogen and Fuel Cell (H2 and FC) National Program) for a CTI report to support a proposal for the establishment of two Canadian Technology Development Projects (TDP). This industry-driven and multi-partner initiative would involve NRC, the Natural Sciences and Engineering Research Council (NSERC) and Natural Resources Canada (NRCan) collaborating with industry and university researchers to develop advanced fuel cell technologies over a three to five year timeframe, as part of the H2 and FC National Program's efforts to meet Canada's energy and environment priorities. The two parallel technologies proposed were Lower Temperature Solid Oxide Fuel Cells (SOFC) and Advanced Polymer Electrolyte Membrane (PEM) Fuel Cells.

Dr. Cicha accepted the CTI request and on July 30, 2008, a CTI mandate was finalized. In August 2008, three resulting CTI reports were produced and submitted and, then in October 2008, the NRC Senior Executive Committee (SEC) granted approval and funding of the projects and participating companies matched research and development funding for a total of nearly \$8 million over three years. The projects are already humming along and yes, Annie Lennox would likely agree, "Sweet Dreams Are Made of This."