Annual Performance Review of International Affiliations

Assessment of the Partnership between the
National Research Council of Canada (NRC)
and the
NRC Canada Institute for Scientific and Technical Information (CISTI)
in support of Canada's affiliation with the
Committee on Data for Science and Technology (CODATA)

Submitted by the Canada Institute for Scientific and Technical Information/Canadian National Committee (CNC) for CODATA to the NRC ICSU Secretariat and the Committee on International Science, Technology, and Engineering (CISET)

The Annual Performance Review provides a means for the NRC ICSU Secretariat and CISET to assess the impact of Canada's International Affiliations. The APR is conducted through a Questionnaire and Response Assessment Framework focused on evaluating two unique criteria: The relevance of the International Affiliation within a Canadian context (Importance), and; the capacity of the supporting NRC Partner/CNC to generate beneficial results and outcomes for Canadians (Effectiveness). International Affiliations demonstrating a high level of importance within a Canadian context, and whose NRC Partners/CNCs effectively generate multiple beneficial results and outcomes for Canadians, will have the most pronounced and positive impacts, and will be considered as the strongest candidates for continued support.

The APR is a mandatory assessment and questionnaire responses should be submitted to the ICSU Secretariat and CISET by the Canada Institute for Scientific and Technical Information/CNC before the 29th of February 2008. Failure to submit a questionnaire response will result in the cancellation of support within the International Affiliation Grant Transfer Program (IAGTP).

The APR Questionnaire and Response Assessment Framework will also be used to evaluate the candidacy of new applicants requesting support within the IAGTP. Applicants should answer Section 1 as outlined, and for Section 2, provide a description of the specific steps or strategic plan that would be implemented to generate the desired results and outcomes.

Questions should be answered concisely and in point form.

Reviewer Contact Information

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General Information on the CODATA

Name of Union/affiliation	**Committee on Data for Science and Technology**
Name of Canadian Partner	**Canada Institute for Scientific and Technical Information**
Annual Due *Specify type of currency	**$16,106 US *Projected for 2008* ($15,713 US in 2007)**
Category of Membership Adherence	**Category 10**

Annual Performance Review Questionnaire

Section 1: Assessment of the Importance of CNC/CODATA

1. Is CNC/CODATA important within a Canadian context?

a) Does the field of science represented by CNC/CODATA support Canada's identified S&T Priorities and Policy Objectives?

Describe how the field of science represented by CNC/CODATA supports the S&T priorities affirmed by the Federal Government in the 2007 S&T Strategy and/or advances the S&T policy objectives of Canadian institutions and organizations such as NSERC, SSHRC, CIHR, NRC, etc. (**Federal priorities for Canadian S&T investment focused on environmental science and technologies, health and related life sciences and technologies, information and communications technologies, and natural resources and energy**)

=== Q1(a) RESPONSE ==========

- CODATA is an organization that promotes data access and data quality across all scientific and engineering disciplines; gives interested scientists and engineers an open window on the world of data-related issues
- Promotes systematization of data management and to emphasize the role of primary data providers in making their results accessible by modern electronic means. All disciplines of science and engineering benefit, and duplication of work can be avoided, if relevant data are available
- By its cross-disciplinary nature, CODATA flexibly supports any and all changes in research directions and priorities. There is a particularly strong alignment between the CNC's priorities and those of the Federal government and various granting agencies, as discussed below:

Pertinence to Canadian agendas:

- Federal S&T Strategy: Mobilizing Science and Technology to Canada's Advantage
  - $2.7 billion (of $5 billion invested in 2005) was towards related scientific activities which included data collection and management (p. 68 of report); Management of data figures significantly into decision making (p. 69 of report)

CNC/CODATA's activities and strategies address precisely the need to improve Canadian researchers' abilities to do this, as well as preserve the data which was collected using public funds

- NSERC Strategy: Towards a Country of Discovers and Innovators
  - Clear focus on building Canada's human capital (slide 6) and supporting researchers (slide 10)

CNC/CODATA recognizes the need to train young scientists in the area of data management, both to support good research practices and also to improve their ability to procure funding. The CNC is preparing a workshop to be aimed at graduates or recent graduates, which addresses both priorities.

- SSHRC Strategy: Knowledge Council
  - Clear reference (p. 20) to the need for workshops on data archiving standards, networked data centres, and the need to increase effectiveness of these.

CNC/CODATA directly addresses these issue and has for many years sought the active involvement of NSERC, SSHRC and CIHR to work jointly on exactly these areas. Successful management and provision of access to data directly supports the transformation of knowledge into action.

? CIHR Strategy: Investing in Canada's Future: A Blueprint for Health Research and Innovation
  - Page 13, data included as critical in supporting health research excellence; Data platforms and databases presented as supportive of new initiatives; Actions relating to data and databases are highlighted as supportive of Objective 2 (Develop, support and sustain new national platforms and initiatives for health researchers) and Objective 5 (Capitalize on technology to enhance service delivery)

Key alignment with objectives and mission of CNC/CODATA.

Additionally:

? The CNC helped organize the original Seminar on Access to Publicly Funded Scientific Data, which in turn provided the basis for the National Consultation on Access to Scientific Research Data (NCASRD). Under the Chair of David F. Strong, the NCASRD Task Force submitted a final report in May 2005, which was positively received by the various granting agencies and served to kindle interest in the same issue, in international circles.
  ? NCASRD recommendations are at the centre of a working group, assembled by NRC-CISTI in January 2008, which consists of representatives from NSERC, SSHRC, CIHR, CNC/CODATA, and others.
? CNC/CODATA's Report on Data Activities in Canada presents to all Canadian researchers, a snapshot of available key data resources and datasets; its new dynamic format supports addition of new research areas or subject specializations according to Canadian research priorities.
? The work of the Fundamental Constants Task Group (the longest running of all CODATA's Task Groups) is basic to all science; Canadian membership in CODATA helps support that important work and Canadian participation in the Task Group (which in 2008 has a Canadian Chair) helps ensure its relevance to Canadian needs
? Scientists worldwide enjoy easy access to databases involving biological macromolecules due to CODATA's efforts in the early days of macromolecule database development, assembling all the major players and insisting that standards be agreed upon for interchangeability of data

SECTION TO BE FILLED IN BY REVIEWER

Assessment Rating for 1.a) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that the field of science represented by the CODATA strongly supports the Canadian S&T Priorities affirmed in the Federal Governments 2007 S&T Strategy and/or the S&T policy objectives of Canadian organizations such as NSERC, SSHRC, CIHR and the NRC.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that the field of science represented by the CODATA moderately supports the Canadian S&T Priorities affirmed in the Federal Governments 2007 S&T Strategy and/or the S&T policy objectives of Canadian organizations such as NSERC, SSHRC, CIHR and the NRC.

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not demonstrated that the field of science represented by the CODATA supports the Canadian S&T Priorities affirmed in the 2007 Federal Strategy or the S&T policy objectives of Canadian organizations such as NSERC, SSHRC, CIHR and the NRC.

Provide additional comments here if necessary. Limit 1000 characters.

b) Does CNC/CODATA support a critical and highly developed Canadian scientific network?
or Does the field of science represented by CNC/CODATA hold the potential to bring

forth scientific advancements that would benefit Canadians, thereby warranting the creation a new Canadian scientific network?

Describe the key components and features of the Canadian S&T network, highlighting the number of public and private scientists active in the field (students, professors, researchers, and doctors), the number of public institutions and private companies engaging in basic research, applied research, and/or commercialization activities (and the total value of their investment in each activity), and the capacity of global markets to acquire related products and services.
or Describe the S&T advancements (knowledge related, products and services, processes and applications) proposed and in development that could impact favorably on Canadians, enhancing our quality of life, ability to contribute to global challenges, environmental performance and sustainability, global competitiveness, international relations, and economic performance and prosperity.

=== Q1(b) RESPONSE ==========

In principle, CODATA is a multi-disciplinary body which has, as a community, both in Canada and worldwide, all scientists who use data in their work. Canadians involved actively probably do not exceed a couple dozen. (Scientists involved actively internationally, based on the numbers listed in the CODATA Handbook, number about 450.)

CNC/CODATA ensures that Canada optimizes its benefits from belonging to CODATA by:
- collecting and reconciling the many views of its relevant Canadian scientific community on data issues;
- identifying, representing and promoting the capabilities and distinctive competence of the Canadian scientific community internationally;
- enhancing the depth and breadth of the participation of the Canadian scientific community in the activities and events of CODATA and related organizations;
- establishing mechanisms for communicating to its Canadian scientific community the views of CODATA and information about the activities of CODATA;
- distributing appropriate documentation, including the CODATA Newsletter;
- repeatedly inviting industry members to participate, a particularly difficult sector to attract;
- attracting and staging international events of value to its Canadian scientific community.

Current CNC Makeup (Jan. 2008) (See also **Appendix 2 – CNC/CODATA members and Observers**)

Members (staggered 3-year terms):
- Dr. Gisele Amow, Defence Research and Development Canada (Air Vehicle Research)
- Dr. Christian Blouin, Dalhousie University (Computer Science)
- Mr. John Broome, Natural Resources Canada (GeoInformatics)
- Prof. Roxane de la Sablonnière, Université de Montréal (Psychology)
- Dr. Marc Roussel, University of Lethbridge (Chemistry)
- Prof. Michel Sabourin (Chair, also Member of CODATA Executive Board), Université de Montréal (Psychology)
- Dr. James Sangster, Sangster Research Laboratories (Thermochemistry)
- Dr. D.R. Fraser Taylor, Carleton University (Geography and Environmental Studies)
- Dr. Gordon Wood, ex-officio (Vice President, CODATA Executive Board) (Physics and Materials Science)
- Ms Tsoi Yip, Meteorological Service of Canada (Meteorology)

Observers:
- Dr. Paul Budkewitsch, Natural Resources Canada (Geology and Environmental Science)
- Dr. Hanna Dabkowska, McMaster University (Physics)
- Mr. Chuck Humphrey, University of Alberta (Data Management and Library Science)
- Dr. Alexander M. Jablonski, Defence R&D Canada (Space Science)

? Mr. Glen Newton, National Research Council Canada (Information Science)
? Mr. Denis Pinard, National Research Council Canada (NRC Observer)

Secretariat:
? Ms Mary Zborowski (Executive Secretary), National Research Council (Physics, Information Science)
? Mr. Pierre Surprenant (Secretary)

Additional participants (occasional meeting attendees, participants in online discussions, etc.):
? At least 20 additional scientists, engineers, researchers, who attend our annual meeting as guests, and/or participate in discussions through the discussion list "cnc-codata@lists.cisti.nrc.ca"

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Assessment Rating for 1.b) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that it supports a critical and highly developed Canadian scientific network comprising large numbers of public and private scientists, an extensive base of public and private companies engaging in basic research, applied research, and/or commercialization, and connected to global markets with a pronounced demand for related products and services
or
The Canada Institute for Scientific and Technical Information/CNC for CODATA has described a suite of knowledge growth opportunities, products, services, processes and applications currently being developed within the relevant field of science, and has clearly demonstrated their potential to bring forth scientific advancements that would benefit for Canadians in areas related to quality of life, contribution to global challenges, environmental performance and sustainability, global competitiveness, international relations, or economic performance and prosperity.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that it supports moderately developed Canadian scientific network comprising intermediate numbers of public and private scientists, a significant base of public and private companies engaging in basic research, applied research, and/or commercialization, and connected to global markets with the potential to acquire related products and services.
or
The Canada Institute for Scientific and Technical Information/CNC for CODATA has described a proposed suite of knowledge growth opportunities, products, services, processes and applications that could be developed in future within the relevant field of science, and has clearly demonstrated their potential to bring forth scientific advancements that would benefit for Canadians in areas related to quality of life, contribution to global challenges, environmental performance and sustainability, global competitiveness, international relations, or economic performance and prosperity.

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not demonstrated that it supports a scientific network that is relevant and developed in Canada.
or
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not described any current or proposed future knowledge growth opportunities, products, services, processes or applications that could bring forth scientific advancements that would benefit Canadians in areas related to quality of life, contribution to global challenges, environmental performance and sustainability, global competitiveness, international relations, or economic performance and prosperity.

Provide additional comments here if necessary. Limit 1000 characters.

Section 2: Assessment of the Effectiveness of the Supporting NRC Partner/CNC for CODATA

2. Does the Canada Institute for Scientific and Technical Information/CNC for CODATA ensure the representation, promotion, and protection of Canadian interests in the international scientific community?

a) Does the Canada Institute for Scientific and Technical Information/CNC for CODATA consult with the domestic science community to identify and consolidate opinions, concerns, suggestions, and perceived challenges, and does it ensure their presentation to and support within CODATA?

Document the consultative processes, meetings and assemblies, surveys and questionnaires, and discussion forums employed to obtain input from Canadian stakeholders, and describe the subsequent actions taken to promote and support stakeholders' interests within CODATA.

=== Q2(a) RESPONSE ==========

- CNC/CODATA Terms of Reference, originally adopted in September 1993, modified and ratified 2007 (by CISTI's DG). (see **Appendix 1: CNC/CODATA Terms of Reference**)
- Secretariat in CISTI with a Secretary and Executive Secretary formally identified. Duties are part-time and include managing budgetary allocations to cover the cost of the annual meeting, distributing the CODATA Newsletter and maintaining the CNC/CODATA website.

To ensure input from all Canadian stakeholders:

- Member appointments based on geographic, linguistic, sector and discipline distributions (as widely as a maximum of, originally, six (and since 2007, eight) permits; see **Appendix 2: CNC/CODATA – Members and Observers**)
  - Current disciplines: biology, chemistry. meteorology, thermodynamics, geoscience, psychology, physics and informatics
- To broaden ability for input:
  - Since meetings are held in Ottawa (due to cost constraints), advantage is taken of the availability of government and private-sector experts in a number of fields, who are invited to participate in annual meetings and related activities as Observers
  - CNCs for all ICSU Unions to which Canada adheres are invited to send a participant to each annual CNC/CODATA meeting. This input, from a broader cross-section of the community than would be possible from the limited number of formal members that our resources permit, increases the impact and improves the decisions resulting from the meetings
  - Representatives from the granting agencies (NSERC, SSHRC, CIHR) and other interested organizations, are also routinely invited to Annual meetings and to participate in related activities
- Database managers are invited, via the distribution of the 350 copies of the Data Activities in Canada report, to contribute information concerning their activities
- There exists a Web site for CNC/CODATA with a protected Members area and opportunity for input
- Two e-mail distribution lists are maintained (see Question 6): one is to all to discuss data-related issues.

CNC/CODATA Meeting Attendance: (since the last 5-year assessment of 2003)

Date	Members (includes ex-officio*)	Observers	Guests	Total Attendance
2003	5	6	4	15
2004	7	3	3	13
2005	6	6	7	19
2006	6	8	5	19
2007	8	6	8	22

* Ex-officio members include (Canadian) persons elected to CODATA's Executive Committee as Officers or Ordinary Members

Meetings:

- Held annually at CISTI; travel costs for university sector members are paid by CISTI; the agenda are distributed in advance with Member input strongly solicited; Minutes widely distributed afterwards
- Main items of discussion:
  - Reports from Canadian members of CODATA Task Groups and Commissions;
  - Reports/Observations from representatives of other ICSU Unions
  - Opportunities for collaboration between CNC/CODATA and the CNC's of other ICSU Unions
  - According to the year, either a report from the Canadian Delegate to the biannual CODATA General Assembly or voting instructions to the Delegate;
  - Review of Canadian participation in CODATA Task Groups and Commissions; actions identified where representation is weak;
  - Identification of project(s) for CNC/CODATA of benefit to Canada (eg. Data Quality and Data Consistency, Student prize, Seminar on Access to Publicly Funded Research Data)
  - According to the year, either plans and rapporteur appointments for biannual *Data Activities in Canada* report or review of its current status
  - In recent years, specific discussions on how to develop Workshops to support the strategic recommendations of the NCASRD
- Sub-committees (Sangster award, CODATA Prize, workshop planners) meet virtually or locally as needed.

Meetings organized:

- CNC/CODATA organized the Seminar on Access to Publicly Funded Research Data forming a part of the May 2003 CNC/NRC Partners Meeting. Building on concerns first raised at the CNC/CODATA meeting in 2000, this seminar was planned to stimulate action in the natural sciences toward a coherent policy and infrastructure addressing this important issue.
- CNC/CODATA organized two Workshops/Tutorials on Information Visualization in Ottawa (advertised nationally):
  - June 3, 1999: in collaboration with the Ottawa Centre for Research and Innovation (OCRI) and the CODATA Task Group on Data and Information Visualization; about 80 participants
  - May 23, 2001: in collaboration with OCRI and with the sponsorship of a number of corporations; attended by 113 computer scientists, information specialists and software developers, primarily from 8 government departments, 5 universities and 46 companies in the greater Ottawa area.

Reports and communications: (see Question 6)

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Assessment Rating for 2.a) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA engages in consultative processes such as meetings and assemblies, surveys and questionnaires, and discussion forums, outside of regular membership meetings, at least once a year. The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that stakeholder input gathered during consultative processes is promoted and supported within CODATA.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA engages in consultative processes such as meetings and assemblies, surveys and questionnaires, and discussion forums, outside of regular membership meetings, at least once every two years. The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that stakeholder input gathered during consultative processes is promoted and supported within CODATA.

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA does not engage in consultative processes, outside of regular membership meetings. The Canada Institute for Scientific and Technical Information/CNC for CODATA has not demonstrated that stakeholder input gathered during consultative processes is promoted and supported within CODATA.

Provide additional comments here if necessary. Limit 1000 characters.

b) Does the Canada Institute for Scientific and Technical Information/CNC for CODATA ensure that Canadian Delegates participate strategically in the conduct of General Assemblies of CODATA?

Describe the contributions of Canadian Delegates to the General Assemblies of CODATA. Highlight contributions (note whether presentation, discussion, debate, vote, etc) that lead to the selection of research priorities, conference and symposium themes, areas of focus for international projects and collaborations, proposed constitutional amendments, etc, reflective of Canadian interests.

=== Q2(b) RESPONSE ==========

There is no question that the CNC has excelled in this area, having supported the nomination of several Canadian successful candidates to Executive positions within CODATA International. Continuing the tradition of having Canadians (Dr. G.H. Wood and Dr. Paul Mezey) in the position of Secretary general in previous decades, Canadians once again occupy positions of Vice President (Dr. G.H. Wood, since 2006) and Ordinary Member (Prof. Michel Sabourin, since 2006) and in addition, Prof. Sabourin is being nominated for position of Treasurer, which election will conclude in October 2008. (see also Question 3 response.)

The ability of Executive and Ordinary Members to influence decision making is undeniable; however in addition, while representing Canada as one of CODATA's National Members, the Canadian delegate has traditionally been vocal and has repeatedly succeeded in influencing decisions – particular in the matter of finances and the treatment of National Members found delinquent in paying of dues. Canadian input in the latest 2006 General Assembly resulted in the acceptance of a dues calculation formula which positively impacts Canada, and which resulted in the appointment of Prof. Sabourin (who has demonstrated experience in this field, having been treasurer for IUPsyS for several years) as chair of the Finance subcommittee.

Through discussion at CNC Annual meetings, the CNC Membership routinely instructs the Canadian delegate how to vote in key issues, such as executive and Task Group elections. It is noted that there is an historic positive correlation between such instruction and the final outcome of GA voting procedures.

These details are document below, as well as details concerning the Canadian delegate's participation in General Assembly discussions and voting processes, in **Appendix 3 – Canadian Delegate input into CODATA General Assemblies** (since 2003, date of last 5-year assessment).

Of particular note is the issue of the Sangster Award, begun in 2004 by Dr. James Sangster, long-time CNC Member and Observer, and which he plans to continue to support in perpetuity. This overt support of young scientists has been highlighted by CODATA, to the point where

- the award is publicly granted to the Canadian recipient at the conference opening ceremonies,
- the recipient presents a full paper in a key session (not a poster session)
- the award has been highlighted in CODATA's Newsletter
- and the General Assembly has adopted a formal recommendation that all National Members follow the example of Canada and establish, in their countries, a similar award for young scientists.

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Assessment Rating for 2.b) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided three examples where it has encouraged Canadian Delegates to present, discuss, debate, or vote on issues at General Assemblies of CODATA. The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that the contributions of Canadian delegates led to the successful selection of research priorities, conference and symposium themes, areas of focus for international projects and collaborations, proposed constitutional amendments, etc, that reflect and support Canadian interests.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided three examples where it has encouraged Canadian Delegates to present, discuss, debate, or vote on issues at General Assemblies of the CODATA. The Canada Institute for Scientific and Technical Information/CNC for CODATA has not demonstrated that the contributions of Canadian delegates lead to the successful selection of research priorities, conference and symposium themes, areas of focus for international projects and collaborations, proposed constitutional amendments, etc, that reflect and support Canadian interests

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not provided three examples where is has encouraged Canadian Delegates to present, discuss, debate, or vote on issues at General Assemblies of CODATA.

Provide additional comments here if necessary. Limit 1000 characters.

3. Does the Canada Institute for Scientific and Technical Information/CNC for CODATA ensure the promotion of Canadian contributions to international decision making?

Does the Canada Institute for Scientific and Technical Information/CNC for CODATA successfully encourage Canadian scientists to rise to leadership and decision making positions within CODATA?
Identify Canadians that have successfully attained **executive**, **committee**, **work-group**, **commission**, or **panel positions**, and describe the beneficial outcomes they have generated or supported reflective of Canadian interests.

=== Q3 RESPONSE ==========

CNC/CODATA regularly and whenever possible ensures that Canadians are recommended and nominated for executive positions within the CODATA Executive Committee, with demonstrated success as presented in the table below (and showing all data since the last (2003) CISET Assessment document or with terms covering the period since the last Assessment document):

CODATA Executive Committee positions

Year of Election	*Name*	*Position*	*Current*	*Discipline*	*Location*
2006	Dr. G.H. Wood	Vice President, Executive Committee	Yes (2006-2008)	Physics; Scientific and Technical Information	Ottawa, ON
2006	Prof. M. Sabourin	Ordinary Member, Executive Committee	Yes (2006-2008)	Psychology	Montreal, QC
2004	Prof. M. Sabourin	Ordinary Member, Executive Committee	Renewed (2004-2006)	Psychology	Montreal, QC
2002	Dr. G.H. Wood	Ordinary Member, Executive Committee	No (2002-2004)	Physics; Scientific and Technical Information	Ottawa, ON
2002	Dr. Paul Mezey	Secretary General, Executive Committee	No (2002-2004)	Computational Chemistry	Saskatoon, SK

Voting privileges

Year of the GA	*Name of Delegate*	*Position*	*No. of votes*	*No. of votes by proxy*
2004	Dr. G.H. Wood Prof. M. Sabourin	Canadian Delegate IUPsyS Delegate	1 (as delegate) 1 (for Union)	1 (for Union)
2006	Dr. G.H. Wood Prof. M. Sabourin	(proxy for Union) Canadian Delegate	1 (as delegate)	1 (for Union) 1 (for Union)

Concerning involvement in Task Group activities, see **Appendix 4: Task Group Activities and Involvements.** However CNC/CODATA makes every effort to nominate Canadian scientists to positions on Task groups and has experience a high level of success in that nearly every Task Group which addresses issues of concern to Canadians, has Canadian representation.

Election of Canadians as Members of CODATA Commissions

(Note: Mary Zborowski has provided support and advice to CODATA concerning its web site and web communication strategies, since 1996.)

Year	*Name*	*Position*	*Commission*	*Outcome*	*Discipline*	*Location*
2005	Mrs. Mary Zborowski	Chair	Ad hoc Review Committee of the CODATA International Web Site	Redesign of CODATA website; Official letter of thanks from CODATA President	Information Science	Ottawa, Ont.

Editorial positions within CODATA International

Year	*Name*	*Position*	*Publication*	*Location*
2006-present	Dr. G.H. Wood	Editor	CODATA Newsletter	Ottawa, Ont.
2002-present	Dr. John R. Rodgers	Member Editorial Board	Data Science Journal	Ottawa, Ont.
2002-present	Prof. Michel Sabourin	Member Editorial Board	Data Science Journal	Montréal, Qué.
2002-present	Dr. James Sangster	Member Editorial Board	Data Science Journal	Montréal, Qué.

SECTION TO BE FILLED IN BY REVIEWER

Assessment Rating for 3.) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided three examples where it has successfully encouraged Canadian scientists to attain executive, committee, work-group, commission, or panel positions.
The Canada Institute for Scientific and Technical Information/CNC for CODATA has demonstrated that members attaining leadership and decision making positions have advanced Canadian interests and generated beneficial Canadian outcomes.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided three examples where it has successfully encouraged Canadian scientists to attain executive, committee, work-group, commission, or panel positions**.** The Canada Institute for Scientific and Technical Information/CNC for CODATA has not demonstrated that members attaining leadership and decision making positions have advanced Canadian interests and generated beneficial Canadian outcomes.

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not provided three examples where it has successfully encouraged Canadian scientists to attain executive, committee, work-group, commission, or panel positions**.**

Provide additional comments here if necessary. Limit 1000 characters.

4. Does the Canada Institute for Scientific and Technical Information/CNC for CODATA encourage and support Canadian scientists to take advantage of emerging international networking opportunities?

Are Canadian scientists developing international relationships, partnerships, and collaborations through participation in CODATA?
Identify key contacts and relationships cultivated, and international partnerships or collaborations established, between Canadian scientists and other world class scientific leaders and experts

=== Q4 RESPONSE ==========

CNC/CODATA uses various vehicles in order to promote interest, among Canadian, in CODATA activities while also fostering or promoting their visibility in the international scene, for the purposes of sharing information, collaboration, and achieving international recognition both for themselves and for Canada.

Task Group Participation
Most Task Groups require participation of an international group, and CNC/CODATA aggressively seeks to ensure the nomination of a Canadian to each (barring certain Task Groups which have highly regional focus). Most notable is the longest-running Task Group on Fundamental Constants, which has always had Canadian participation and currently has a Canadian Chair of the TG.

CODATA Prize (See **Appendix 5: CODATA and Student Prizes**)
This international competition, financed and managed by CODATA, recognizes outstanding achievement in the world of scientific and technical data, and is awarded publicly at the opening ceremonies of each International CODATA conference. CNC/CODATA takes every opportunity (i.e. at each General Assembly) to recommend a worthy Canadian scientist as possible recipient of each biennial CODATA Prize, and prepares a comprehensive support package which includes support letters from Canadian

and/or International Scientists.

Student Prize (See **Appendix 5: CODATA and Student Prizes**)
As a means of stimulating interest in data among younger scientists in Canada, CNC/CODATA has initiated a prize for Canadian university students. Called the Sangster Research Laboratory Prize, the award is for the best data-related research paper by a student at a Canadian university. The Prize covers most or all expenses related to giving that paper at each CODATA International Conference. Full information is available at http://www.codata.org/canada/sangster/. Since its inauguration, both recipients have enjoyed the ability to present their research in an international environment. The 2006 recipient was additionally invited to participate in a session for young scientists at CODATA 2006, and separately invited to attend another conference in Lindau, Germany, 2007, which he did.

Communication Internationally via the CODATA Newsletter
The CNC/CODATA Secretariat has been diligent in ensuring regular broadcast, to the international CODATA community via the Newsletter (http://www.codata.org/resources/newsletters/index.html), concerning Canadian activities and successes, as detailed below.

Year	*Newsletter*	*Autbor*	*Article*
2008	96	Mrs. Mary Zborowski	LogKOW© and Mycotox: Canadian datasets freely available online
2003	87	Mrs. Mary Zborowski	The Sangster Award, fostering young scientist participation in CODATA
2003	86	Dr. G.H. Wood	Access to data seminar at NRCC
2002	83	Dr. G.H. Wood	Canadian National Committee for CODATA

SECTION TO BE FILLED IN BY REVIEWER

Assessment Rating for 4.) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has identified and described 4 to 5 relationships, international partnerships, or collaborations established with world class scientists, fostered through participation in CODATA, and has provided key contact information.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has identified and described 1 to 3 relationships, international partnership, or collaboration established with world class scientists, fostered through participation in CODATA, and has provided key contact information.

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not identified any relationships, international partnerships, or collaborations established with world class scientists, fostered through participation in CODATA.

Provide additional comments here if necessary. Limit 1000 characters.

5. Does the Canada Institute for Scientific and Technical Information/CNC for CODATA encourage and support Canadian scientists to take advantage of opportunities to showcase Canadian achievements, technologies, and capacity?

a) Does the Canada Institute for Scientific and Technical Information/CNC for CODATA host

Major Scientific Conferences in Canada?

Provide a concise overview of any major scientific conferences hosted in Canada in the last 15 years, providing information on the conference's themes and objectives, number of attendees, participating countries, key speakers and presenters and the substance of their discussions and presentations, spin-off developments, feedback from participants, and identify any major conference outcomes with Canadian or Global implications. (If no major scientific conferences have been hosted in the last 15 years, provide information on any unsuccessful bids made in the last 5 years)

=== Q5(a) RESPONSE ==========

CODATA International Conferences

Most notable is the successful bid of CNC/CODATA, to welcome the CODATA International Conference to Canada (jointly sponsored, with the USNC/CODATA). In 2002, following a bid in the late 1990s to CODATA International, to have an upcoming CODATA International conference in Canada, the 18th CODATA International Conference and 23rd General Assembly was held in Montreal. From Sept. 29th to Oct. 5th, 2002. Of 250 Participants, 26 were Canadian, and there was significant participation and presentation in the various events. Several members were heavily involved in organizational matters. M. Sabourin served on the Conference Oversight/Finance Committee; J. Rodgers and G. Newton served on the International Scientific Program Committee and organized sessions. G. Wood Chaired the International Scientific Program Committee.

See also **Appendix 6: Canadian Involvement in International CODATA Events**
and **Appendix 7: Attraction and Staging of International Events of Value to the Canadian**

The locations of the 21st and 22nd conferences have already been determined (Ukraine and South Africa, respectively). CNC/CODATA will soon begin to bid to host one of the following CODATA International conferences, namely 2012, 2014, 2016, 2018 etc.

Task Group Meetings

- Hosted meeting of Fundamental Constants Task Group, Ottawa, June 2002
- Other Task Groups may have been held in Canada but this information is not available (see Question 8 response below)

SECTION TO BE FILLED IN BY REVIEWER

Assessment Rating for 5.a) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has successfully hosted at least one major scientific conference in Canada in the last 15 years. The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided a complete and concise overview of conference activities, confirming its status as a major scientific conference, and has demonstrated that the conference produced beneficial results and outcomes for Canadian scientific advancement and Canadian scientists.

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has competently bid to host at least one major scientific conference in Canada in the last 5 years. The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided a complete and concise overview of the activities undertaken during the bidding process, and has demonstrated a well planned, organized, and strategic attempt to position Canada as a potential conference venue.

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not hosted (in the last 15 years) or competently bid to host (in the last 5 years) any major scientific conference in Canada.

Provide additional comments here if necessary. Limit 1000 characters.

b) Does the Canada Institute for Scientific and Technical Information/CNC for CODATA encourage Canadian scientists to take active roles in international conferences, symposia, and workshops?

Identify Canadian scientists that have spoken, presented, or advised at international conferences, symposia, and workshops and describe their accomplishments highlighting opportunities taken to showcase exemplary Canadian S&T achievements, demonstrate Canadian S&T knowledge and expertise, express Canadian S&T ideas and perceptions, and set forth recognized strengths in Canadian S&T capacity

=== Q5(b) RESPONSE ==========

Canadian scientists have a tradition of speaking or presenting papers at each CODATA International conference. There were 7 contributions by Canadians at the 2006 CODATA Conference in Beijing, and 11 at the 2004 CODATA Conference in Berlin, as well as miscellaneous contributions to other events as itemized in **Appendix 6: Canadian Involvement in International CODATA Events.** Additionally, Canadians are currently submitting papers for presentation at the 2008 CODATA Conference in Kyiv. (Accepted papers will be announced mid-March, 2008).

Canadians have also demonstrated input at specific meetings and workshops of the various Task Groups as well (see Appendix 6) although not all Canadian Task Group members report this information to CNC/CODATA. (See Question 8 response below)

SECTION TO BE FILLED IN BY REVIEWER

Assessment Rating for 5.b) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided 5 examples of Canadian scientists that have spoken, presented, or advised at international conferences, symposia, and workshops. The Canada Institute for Scientific and Technical Information/CNC for CODATA has outlined their activities and has documented opportunities taken to showcase exemplary Canadian S&T achievements, demonstrate Canadian S&T knowledge and expertise, express Canadian S&T ideas and perceptions, and set forth recognized strengths in Canadian S&T capacity

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has provided 3 examples of Canadian scientists that have spoken, presented, or advised at international conferences, symposia, and workshops. The Canada Institute for Scientific and Technical Information/CNC for CODATA has outlined their activities and has documented opportunities taken to showcase exemplary Canadian S&T achievements, demonstrate Canadian S&T knowledge and expertise, express Canadian S&T ideas and perceptions, and set forth recognized strengths in Canadian S&T capacity

Low:
The Canada Institute for Scientific and Technical Information/CNC for CODATA has not provided at least 3 examples of Canadian scientists that have spoken, presented, or advised at international conferences, symposia, and workshops.

Provide additional comments here if necessary. Limit 1000 characters.

6. Does the Canada Institute for Scientific and Technical Information/CNC for CODATA disseminate important scientific knowledge and information to Canadian stakeholders?

Does the Canada Institute for Scientific and Technical Information/CNC for CODATA consistently distribute important reports, presentations, press releases, workshop toolkits,

and, conference, committee, panel, commission, workgroup, and general assembly conclusions, recommendations, and summary reports to Canadian stakeholders?
Document the mechanisms of distribution used to inform stakeholders (such as regular membership meetings, website updates, newsletters, summary and annual reports, etc) and briefly describe the type of knowledge and information being disseminated.

===Q6 RESPONSE ==========

? **Annual Meeting**
- Information and Agenda concerning the CNCs Annual Meeting is widely distributed
- CNC welcomes both regular participants (Members, Observers and regular Guests) and new Guests who learn of the CNC's activities and meetings by word of mouth and express interest in becoming involved
- Additionally, the CNC targets and invites representatives from specific groups (such as the granting agencies) according to their perceived interest level in data-related activities. It is noted that response from Industry is particularly low, and it is an ongoing challenge to draw industrial researchers and/or decision makers to CNC/CODATA events
- Detailed Minutes and Actions document distributed to all, including non-participants who request it.

? **Website** (http://www.codata.org/canada)
- Maintained by NRC-CISTI; underwent a major site refresh in 2002
- Ongoing regular and minor refreshes as necessary, to address issues such as the need for increased accessibility and better usability, increased access to collaborative tools, promotion of new datasets, etc.
- Website metadata maintained to ensure retrievability by Internet search engines

? **Mailings**
- Mailing list of over 300 names is maintained
- Used to distribute paper copies of the CODATA Newsletter, and (when available and appropriate) Sangster Award posters and the DAC report

? **E-mail distribution lists**
- Maintained by NRC-CISTI
- cnc-codata@lists.cisti.nrc.ca (open to all interested)
    - Archives at: http://tools-outils.cisti-icist.nrc-cnrc.gc.ca/Mailman/ListArchives.php?lang=en&list=cnc-codata&threaded=0
- cnc-codata-members@lists.cisti.nrc.ca (for use by Members only)
- Archives available but protected (in Members' area of CNC/CODATA website)

? **Data Activities in Canada Report** (http://dac.cisti.nrc.ca/data_activities.cfm)
- Biennial report compiled by the CNC
- A snapshot, rather than an exhaustive survey, of data-related activities
- Serves as an especially useful tool for any scientist or engineer needing to find data specific to Canada, such as hydrological or geoscience data
- By virtue of its being distributed in hard copy to the Member nations of CODATA and in electronic form on the CNC web site, it helps to inform the world about Canadian expertise and facilities data exchange.
- Current, dynamic report, on the CNC/CODATA web site

? **Sangster Award**
- Funded by long-time CNC/CODATA Member Dr. James Sangster
- Dramatic colour poster, altered for each year of availability of the Award
- CNC/CODATA ensure extremely wide distribution, including societies of Canadian graduate students, Deans of Canadian Universities, Learned societies, granting agencies, to recipients of the

CODATA Newsletter mailing list in Canada, and of course via personal contacts and networks maintained by CNC/CODATA Members and observers

? **Support of Scientific datasets**
- LogKOW database: This database is now catalogued within the CISTI online catalogue, and available rapidly through an Internet search engine such as Google or Yahoo. (http://logkow.cisti.nrc.ca)
- Mycotox datafile: This database is now catalogued within the CISTI online catalogue, and available rapidly through an Internet search engine such as Google or Yahoo (http://www.codata.org/canada/mycotox/)

? **Input to Canadian nomination for CODATA prize**
- To ensure nomination of the best Canadian Candidate, CNC/CODATA Members, Observers and Guests all use private networks to generate recommendations
- E-mail distribution list also used, in order to provide greatest coverage possible, as well as website.

? **Participation in Working Group on data management issues**
- Participation by CNC Chair and Executive Secretary, and one Observer, in Data Management Working group activities, convened by NRC-CISTI's Director General (2008), Pam Bjornson
- Presentation to WG of CNC activities and directions re preparation of Workshop
- Observer assigned to chair the Workshop Task Group

? **Articles in CODATA Newsletter**
- Described above in Question 4
- Publishing in CODATA Newsletter reaches not only the International community, but the Canadian one as.

? **Articles in NRC-CISTI's Newsletter (since 2003)**
- Reaches international as well as Canadian audience
- Distributed by e-mail and also posted on NRC-CISTI website

Year	*Newsletter*	*Autbor*	*Article*
2007	23(2)	Mrs. Mary Zborowski	Call for applications: 3rd Sangster Award
2006	22(2)	Mrs. Mary Zborowski	CISTI: Active CODATA Supporter
2005	20(3)	Mrs. Mary Zborowski (partial authorship)	Networks: recipe for success in the knowledge age
2005	20(3)	Mrs. Mary Zborowski (partial authorship)	National consultation ponders access to scientific research data

Archives:

Assessment Rating for 6.) Response: Provide rating here

High:
The Canada Institute for Scientific and Technical Information/CNC for CODATA holds at least 1 membership meeting per year. The Canada Institute for Scientific and Technical Information/CNC for CODATA has a website to inform members of current issues and content is update at least twice a year and/or the Canada Institute for Scientific and Technical Information/CNC for CODATA distributes a newsletter to members at least twice a year. The Canada Institute for Scientific and Technical Information/CNC for CODATA publishes an annual report updating members of key actions, publications, decisions, and events related to CODATA

Medium:
The Canada Institute for Scientific and Technical Information/CNC for CODATA holds at least 1 membership meeting per year. The Canada Institute for Scientific and Technical Information/CNC for CODATA has a website to inform members of current issues and content is updated at least once a year and/or the Canada Institute for Scientific and Technical Information/CNC for CODATA distributes a newsletter to members at least once a year. The Canada Institute for Scientific and Technical Information/CNC for CODATA publishes an annual report updating members of key actions, publications, decisions, and events related to CODATA

Low:
If Canada Institute for Scientific and Technical Information/CNC for CODATA fails to complete the actions expected within the Medium category, then it will receive a rating designated Low

Provide additional comments here if necessary. Limit 1000 characters.

Section 3: Membership Adherence

7. Is the level of membership to which the NRC Partner/CNC for CODATA adheres within CODATA appropriate?

=== Q7 RESPONSE ==========

? Level is appropriate: **National member**
? Some countries which have faced Dues challenges have opted to be reduced to Associate National Member; however such members lose voting privileges and have significantly reduced abilities to influence CODATA decisions. This would NOT be recommended for Canada.

An overview of the membership adherence levels available within the related Union; includes a breakdown of the resulting benefits and associated dues that correspond to each individual adherence level. Additionally, level to which the Canada Institute for Scientific and Technical Information/CNC for CODATA currently adheres is identified.

Table 1.

International Union Name	Levels of Adherence Available	Dues Associated with Adherence level	Resulting Benefits for Adherence Level
CODATA	1 Union Member	(no dues)	IUPsyS, IUPAP, etc
	2 National Member (current level of adherence)	**Annual dues ($16k USD projected for 2008 for Canada)**	**Vote for Task groups, Vote on Financial issues, Vote for Officers and Ordinary Members of the Executive Committee (Canada, USA, etc.)**
	3 Regional Member	Annual dues	Vote for Task groups, Vote on Financial issues, Vote for Officers and Ordinary Members of the Executive Committee (No current Regional Members)
	4 Associate National Member	Annual dues, being one-fifth of dues for National Members	No votes
	5 Co-opted Member	(no dues)	(ICSTI, FAGS, WDC, WFCC)
	6 Supporting Organization	(no dues)	No votes (Springer Verlag, Biosis UK, etc.)

Section 4: NRC Partner/CNC Feedback

8. How can the NRC Secretariat and CISET better serve the scientific community and NRC Partners/CNCs?

=== Q8 RESPONSE ==========

1. Resources: CISTI's limited resources (personnel and financial) do not facilitate the execution and support of CNC/CODATA's agenda. Financial resources are almost entirely attributed to travel costs, which enable regional Members to attend the Annual meeting; but they are insufficient to support a larger membership, which would allow the CNC to have greater success in its initiatives and activities. Thus activities such as the development of interactive web interfaces to data sets, or the organization of additional workshops, are unable to proceed due to lack of resources.
2. The activities of CNC/CODATA (and the other CNCs) should be given wider importance and diffusion at NRC. There is a lack of interest or involvement by sufficient NRC staff, both in the case of those working in strategic areas, and those working in parallel areas of involvement (such as members of other ICSU unions sponsored by NRC). The importance of the CNCs should be highlighted, both to NRC and possibly to other government departments or agencies which have interests and agendas highly aligned with the CNCs.
3. An ongoing challenge is that of keeping the Canadian scientific community aware of data-related issues and their importance to every discipline. Often considered part of the scientific infrastructure that is the responsibility of "someone else", data are taken for granted and it is assumed they will always be there and be of usable quality. CNC/CODATA invites Canadian representatives of the ICSU Unions to suggest, in collaboration with CODATA, joint sessions on data issues to the chairs of program committees for their respective national and international conferences.
4. There is a lack of communication between some Canadian members of CODATA Task Groups, and CNC/CODATA. This is because subject specialists often are attracted to Task Group activities due to their research interests and networking abilities quite separate from NRC and CNC/CODATA. (Some Canadian participants to Task Groups have been recommended and promoted by the CNC; others have become realized independent of communication with the CNC.) The CNC makes every effort to invite Task Group members to participate in Annual meetings, activities and discussions; however there are often scheduling, resource and geographic barriers which impede the ability of such isolated Task Group members to participate in CNC/CODATA activities. NRC's and CISET's highlighting of the importance of the CNC may help to correct this communication gap, or perhaps suggestions can be presented to the CNC.
5. Despite repeated invitations to possible industry contacts, the CNC experiences difficulty in attracting representatives from Industry to its discussions, activities and meetings, and would welcome suggestions or assistance from NRC or CISET in this area.
6. The Secretariat in NRC-CISTI is the office which preserves historical records for the CNC and ensures continuity while Membership (and the Chair) regularly change. Before 2005, this was not a problem, due to the longstanding tenure of both Chair and Executive Secretary by Dr. G.H. Wood, then NRC-CISTI employee, with an expansive understanding of the subject area and with a considerable international network. Upon Dr. Wood's retirement in 2005, the secretariat is fortunate that the incumbent, M. Zborowski, shares a similar interest and understanding, if not the expansive network and level of expertise. Nevertheless the support to the CNC may be considered to be rather fragile, as it is centred mainly in one person within NRC-CISTI, who has competing operational priorities in a number of non-related disciplines. The Chair of this CNC relies heavily on the Executive Secretary to actively participate in strategic and knowledge-intensive activities. While this is an issue that may not be easily resolved, the addition of resources (both time and money, to allow the Executive Secretary to participate in more national and international meetings and activities) may help to strengthen the level of support provided by the person in this role.

NRC PARTNER/CNC FOR CODATA COMMENTS	✍ The completion of this questionnaire has been challenging because it happens during a year in which the 5-year review would have been due. As a result, there were a number of historical records to review in order to complete some questions. It is hoped and expected that in future years, it will be easier to complete. ✍ There is no space to indicate the CNC's plan of action for future years

Appended documents:

Appendix 1: Terms of Reference (as ratified by CISTI's Director General at the 24th Annual CNC/CODATA meeting, October 26, 2007)

Appendix 2: CNC/CODATA - Members and Observers (current as of January 2008)

Appendix 3: Canadian Delegate input into CODATA General Assemblies

Appendix 4: Task Group Activities and Involvements

Appendix 5: CODATA and Student Prizes

Appendix 6: Canadian Involvement in International CODATA Events

Appendix 7: Attraction and Staging of International Events of Value to the Canadian Community

Appendix 1: Terms of Reference (as ratified by CISTI's Director General at the 24th Annual CNC/CODATA meeting, October 26, 2007)

CANADIAN NATIONAL COMMITTEE FOR THE ICSU COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY (CODATA)

TERMS OF REFERENCE

1. The purpose of the Committee (CNC/CODATA), which will report to the Director General (DG) of the Canada Institute for Scientific and Technical Information (CISTI), is:

a) to collect and reconcile the many views of its scientific community on relevant issues;

b) to identify, represent and promote the capabilities and distinctive competence of its Canadian scientific community internationally;

c) to enhance the depth and breadth of the participation of the Canadian scientific community in the activities and events of CODATA and related organizations;

d) to establish the mechanisms for communicating to its Canadian scientific community the views of CODATA and information about the activities of CODATA;

e) to distribute appropriate documentation, including the CODATA Newsletter;

f) to attract and stage international events of value to its Canadian scientific community;

g) to invite from time to time guest speakers to its meetings or to workshops or seminars it sponsors;

h) to recommend to the DG the nomination of the Canadian Delegate and Alternate Delegate to CODATA. (The term of the Delegate/Alternate will begin in January of the year in which a General Assembly is held and terminate in December of the year immediately preceding the year in which the next General Assembly is held. The Delegate/Alternate are normally, but not necessarily, the Chair or a regular member of CNC/CODATA.) Upon approval by the DG, the names of the nominees will be forwarded to NRC International Relations Office for official appointment;

i) to recommend to the DG one person to attend the workshop of CNC Officers which will be organized by NRC International Relations Office on a regular basis.

2. Membership of the Committee

The Committee shall have a Chair and eight regular voting members with new members appointed by the DG of CISTI upon recommendation of the existing Committee. Due regard should be taken to appropriate geographical, linguistic and gender distribution of membership as well as to adequate representation of all disciplines covered by CODATA.

The Chair of the Committee, having a vote and representing one of the disciplines covered by CODATA, shall be appointed by the DG of CISTI on the recommendation of the Committee. Normally, the Committee will recommend the Chair-elect at their meeting immediately preceding the end of the term of the current Chair.

Travel expenses of the Chair and regular members to attend official meetings of the Committee shall be reimbursed by CISTI according to normal Canadian Government regulations.

The Executive Secretary of the Committee shall be appointed by the DG of CISTI and shall be an *ex-officio* voting member of the Committee.

Canadian members of the CODATA Executive Committee shall be *ex-officio* voting members of the Committee during their terms of office. If not the Chair or a regular member of the Committee, the Delegate/Alternate shall be *ex-officio* voting members during their term.

3. Observers

To broaden the level of participation in CNC/CODATA beyond that possible with the regular members, the Chair may invite interested individuals to participate in meetings as Observers, normally at their own expense. In particular, this includes:

- Canadian members of CODATA Task Groups and official CODATA committees
- representatives of Canadian National Committees of ICSU Unions to which NRC adheres,
- a representative of NRC International Relations Office, and
- others of whom the Chair approves.

4. Terms

The terms of membership for all regular members of the Committee shall be three years, renewable once but the second term may be extended beyond three years if deemed expedient by the DG of CISTI. To facilitate continuity, the Executive Secretary shall endeavour to ensure that no more than three terms expire in December of a given year. A regular member whose maximum term has expired, or who has resigned, may be considered for re-appointment as a regular member three years after the date of expiration of their last term or the date of their resignation.

The term of the Chair will normally be three years but the term may be extended an additional three years, or more, if deemed expedient by the DG of CISTI. A Chair whose maximum term as Chair has expired may be considered for re-appointment as Chair three years after the date of expiration of their last term as Chair.

Termination of the terms of the Chair or regular members shall be on the 31st of December of the last year of their appointment or until such time as a replacement has been appointed.

5. Meetings

The Committee shall meet as necessary, normally once each year. Between meetings, the Chair and Executive Secretary may obtain decisions from the Committee by means of ballots. One-half of the voting membership participating in a duly called meeting or ballot shall constitute a quorum.

In the year of a CODATA General Assembly, the Committee shall endeavour to schedule its annual meeting prior to the General Assembly in order to instruct the Delegate on key voting issues.

6 Voting Procedures

For matters requiring a yes/no decision, a simple majority of the votes cast shall be required for a decision. Voting will normally be by show of hands but may be by secret ballot upon approval, by show of hands, of a motion from the voting members requesting a secret ballot.

When voting on issues where the number of options exceeds the number that can be selected (such as voting on candidates to be recommended as regular members), a ranking system shall be used whereby options are selected in descending order according to the number of primary, secondary, tertiary, etc. votes received.

7. Secretariat

The Secretariat of the Committee shall be located at CISTI.

Appendix 2: CNC/CODATA - Members and Observers

(Current as of January 2008)

Members	Observers
Dr. Gisele Amow Defence Scientist Air Vehicle Research Section Defence Research and Development Canada c/o National Research Council Canada 1200 Montreal Road, Bldg. M-12, Room 239 Ottawa ON K1A 0R6 PH: (613) 991-2615 FAX: (613) 991-2384 E-mail: gisele.amow@nrc-cnrc.gc.ca **Dr. Christian Blouin** Assistant Professor Faculty of Computer Science Dalhousie University 6050 University Ave. Halifax NS B3H 1W5 PH: (902) 494-6702 FAX: (902) 494-1517 E-mail: cblouin@cs.dal.ca **Mr. John Broome** Head, ESS GeoInformatics Earth Sciences Sector Natural Resources Canada Room 283, 601 Booth St. Ottawa ON K1A 0E8 PH: (613) 995-6914 FAX: (613) 995-2339 E-mail: broome@nrcan.gc.ca **Prof. Roxane de la Sablonnière** Professeure adjointe Département de psychologie Université de Montréal C. P. 6128, succ. Centre-Ville Montréal QC H3C 3J7 PH: (514) 343-6732 FAX: (514) 343-2285 E-mail: roxane.de.la.sablonniere@umontreal.ca **Dr. Marc Roussel**	**Dr. Paul Budkewitsch** Environmental Scientist-Geology Canada Centre for Remote Sensing, Harsh Environments Applications Section Natural Resources Canada 588 Booth Street Room 355, Third floor Ottawa ON K1A 0Y7 PH: (613) 947-1331 FAX: (613) 947-1385 E-mail: paul.budkewitsch@ccrs.nrcan.gc.ca **Dr. Hanna Dabkowska** Research Scientist Brockhouse Institute for Materials Research McMaster University Hamilton ON L8S 2M1 PH: (905) 525-9140 (x12092) FAX: (905) 521-2773 E-mail: dabkoh@mcmaster.ca **Mr. Chuck Humphrey** Data Library Coordinator Libraries University of Alberta Rutherford North Edmonton AB T6G 2J4 PH: (780) 492-9216 FAX: E-mail: chuck.humphrey@ualberta.ca **Dr. Alexander M. Jablonski** Space Systems Group Radar Application & Space Technology Section Defence R&D Canada 3701 Carling Avenue Ottawa ON K1A 0Z4 PH: (613) 993-4021 FAX: (613) 998-4866 E-mail: alexander.jablonski@drdc-

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National Archives and Data Management Branch Meteorological Service of Canada 4905 Dufferin Street Downsview ON M3H 5T4 PH: (416) 739-4362 FAX: E-mail: tsoi.yip@ec.gc.ca **Ms Mary Zborowski (Executive Secretary)** Senior Systems Librarian, Usability & Quality CISTI National Research Council Canada 1200 Montreal Road Bldg. M-55, Room 29 Ottawa ON K1A 0R6 PH: (613) 998-8754 FAX: (613) 991-2857 E-mail: mary.zborowski@nrc-cnrc.gc.ca	

Appendix 3: Canadian Delegate input into CODATA General Assemblies

Year of the GA	*Issue*	*NRC Guidance*	*Decision of the GA*
2004	? Support to young scientists	During the 2004 Conference preceding this General Assembly, Canada had received much favourable publicity over the Sangster Award(with time being given during the Opening Ceremonies to explain the award and give it publicly to Jau-Hsuing Wang)	General Assembly adopted a resolution encouraging the National Members of CODATA to establish programs similar to that of Canada's, for young scientists (less than 35 years old) in their jurisdictions.
	? Member issues: France behind in dues	Delegate had participated on sub-committee which reviewed the issue of France being seriously behind in its dues. Recommendations by the sub-committee were made to the General Assembly	Adopted
	? Member issues: Nigeria and Indonesia (dues problems)	Delegate proposed a motion formally requesting that Nigeria and Indonesia resolve their dues issues before the end of 2005	Adopted
2006	? Task group voting	Delegate was instructed to vote for task groups according to ranking by CNC Members, which vote took place Sept. 29, 2006 at Annual CNC meeting	10 Task Groups were approved, of which 9 were aligned with Canadian Delegate's vote
	? Elections to Executive Committee and for Ordinary Members	Delegate voted for Exec members and Ordinary members, in which for each category there was a Canadian nominee (G. Wood for Vice President; M. Sabourin for Ordinary Member)	3 Executive members and 8 Ordinary members were elected, including both Canadian nominees. Of 11 members elected, 10 were aligned with Canadian Delegate's vote
	? Method to calculate dues	Delegate intervened (according to his track record as Treasurer for his Union IUPsyS) to recommend which indicators should be used in calculating dues increases	Delegate's recommendations were adopted. In accordance with new calculations, Canada's dues increased only slightly. (alternate calculations would have affected Canadian dues severely)
	? Committee identification	Delegate indicated willingness to serve on Finance Committee	Delegate elected Chair of Finance Committee, based on demonstrated abilities
	? Committee identification	Delegate indicated willingness to serve on Young Scientist Committee	Delegate selected for Young Scientist Committee, based on Canada's experience with Sangster Award
	? Adoption of motions	Delegate supported motions Adopted	

Appendix 4: Task Group Activities and Involvements

Task Group Liaison activities

(Members of the Executive Committee Liaisons are routinely assigned as Liaison officers to Task Groups)

Year of the GA	*Task Group*	*Liaison*
2004	Anthropometric Data and Engineering	Prof. M. Sabourin
2006	Fundamental Constants	Dr. G.H. Wood
2006	Global Species Data Network	Prof. M. Sabourin

Additionally CNC/CODATA actively seeks, among its membership, recommendations of expert Canadians to participate on CODATA Task Groups.

Election of Canadians as Members of CODATA Task Groups (TG)/ Working Groups (WG)

Year of Election	*Name*	*Position*	*Task/Working Group*[1]	*Discipline*	*Location*
2002	Prof. P. Mezey	Member	Data Information & Visualization	Scientific and Technical Info	Saskatoon, Sask.
	Dr. B.M. Wood	Member	TG on Fundamental Constants	Measurement Standards	Ottawa, Ont
	Dr. J. Ripmeester	Member	TG on Data on Natural Gas Hydrates	NMR Spectroscopy	Ottawa, Ont
	Dr. G. Baillargeon	Member	Access to Biological Collection Data	Biology	Le Bic Qué.
	Dr. Fuhu Ren	Consulting Member	TG on Preservation and Archiving of Scientific and Technical Data in Developing Countries	Scientific Data and Information	Richmond, BC
2004	Dr. Guy Baillargeon	Member	Access to Biological Collection Data (ABCD)	Biology	Le Bic Qué.
	Dr. Eric Paquet	Member	Anthropometric Data and Engineering	Visual Information Technology	Ottawa, Ont
	Dr. Marc Rioux	Member	Anthropometric Data and Engineering	Visual Information Technology	Ottawa, Ont
	Prof. P. Mezey	Member	Data Information and Visualization	Scientific and Technical Info	Saskatoon, Sask.
	Dr. J. Ripmeester	Member	Data on Natural Gas Hydrates	NMR Spectroscopy	Ottawa, Ont
	Dr. B.M. Wood	Member	Fundamental Physical Constants	Measurement Standards	Ottawa, Ont
	Dr. Guy Baillargeon	Member	Global Species Data Network	Biology	Le Bic Qué.
	Prof. D.R.F. Taylor	Member	Preservation of and Access to Scientific and Technical Data in	Geography & Environmental Studies	Ottawa, Ont

[1] Not all of these Commissions and Groups are still functioning; some completed their tasks; others were not approved by the General Assembly for renewal; CODATA has approved fewer Task Groups in recent years; Commissions are no longer used.

			Developing Countries		
	(Prof. Laurent Lewis)	(name submitted to Working Group as prospective Member)	Low Dimensional (including nano scale) Materials and Technologies Data Network	Materials Science	Montréal, Qué.
	(Dr. Hanna Dabkowska)	(name submitted to Working Group as prospective Member)	Virtual Laboratories in Earth, Physics and Environmental Sciences	Materials science	Hamilton, Ont.
2006	Dr. Guy Baillargeon	Member	Access to Biological Collection Data (Name changed to: Observation and Specimen Records, (OSR))	Biology	Le Bic Qué.
	Dr. Derek Munro	Member	Access to Biological Collection Data (Name changed to: Observation and Specimen Records, (OSR))	Biology	Ottawa, Ont
	Dr. Eric Paquet	Member	Anthropometric Data and Engineering (WEAR)	Visual Information Technology	Ottawa, Ont
	Dr. Marc Rioux	Member	Anthropometric Data and Engineering (WEAR)	Visual Information Technology	Ottawa, Ont
	Dr. Zouhour Ben Azouz	Member	Anthropometric Data and Engineering (WEAR)	Visual Information Technology	Ottawa, Ont
	Dr. John Ripmeester	Member	Data on Natural Gas Hydrates	NMR Spectroscopy	Ottawa, Ont
	Dr. B.M. Wood	**Chair**	TG on Fundamental Constants	Measurement Standards	Ottawa, Ont
	Dr. G. Wood	Liaison	TG on Fundamental Constants	Physics; Information Science	Ottawa, Ont
	Dr. Guy Baillargeon	Member	Global Species Data Networks	Biology	Le Bic Qué.
	Prof. Michel Sabourin	Liaison	Global Species Data Networks	Psychology	Montréal, Qué.
	Dr. Ellsworth LeDrew	Member	Polar Year Data Policy and Management	Geography	Waterloo, Ont.
	Prof. D.R.F. Taylor	Member	Preservation of and Access to Scientific and Technical Data in Developing Countries	Geography & Environmental Studies	Ottawa, Ont

Additional highlights

(Note: information is not complete and consists only of reports from attendees of CNC/CODATA Annual Meetings)

Year	*Name*	*Involvement*	*Accomplishment*
2007	Dr. J. Ripmeester	Task Group: Data on Natural Gas Hydrates	Several papers published by this Task Group in Data Science Journal; of which 2 were authored by Dr.

			Ripmeester
2007	Dr. D.R.F. Taylor	Task Group: Preservation of and Access to Scientific and Technical Data in Developing	TG organized a keynote session on archiving at the 2006 conference in Beijing and sponsored two workshops in 2007: ? Strategies for Open and permanent Access to Scientific Information in Latin America: Focus on Health and Environmental Information for Sustainable Development ? Data Sources for Sustainable Development in SADC Countries Several members of the Task Group are participating in a developing United Nations Global Alliance for ICT and Development program: Global Alliance for Enhancing Access to and Application of Scientific Data in Developing Countries. Additionally, plans are underway to hold another in the series of regional workshops on preservation and access in Kiev in 2008 in concert with the CODATA 2008 International conference
2006	Dr. D.R.F. Taylor	Task Group: Preservation of and Access to Scientific and Technical Data in Developing	TG raised money for a major workshop in Pretoria at which they looked at the challenges of archiving and adding value to data, whose major reports have been posted to the web and have been widely quoted
2006	Dr. J. Ripmeester	Task Group: Data on Natural Gas Hydrates	TG organized a session on Gas Hydrates at the CODATA conference
2005	Dr. D.R.F. Taylor	Task Group: Preservation of and Access to Scientific and Technical Data in Developing	TG held meeting in Pretoria, South Africa, at which they looked at the challenges of archiving and adding value to data and planning more Working Group meetings. They have been successful at raising funds from the International Development Research Centre (IDRC).
2005	Dr. J. Ripmeester	Task Group: Data on Natural Gas Hydrates	Activities of 2005 included: ? Making applications to various international organizations for funding; ? Development of a portal to connect users to databases in various countries; ? The development of metadata, possibly parallel to an existing Chinese structure; ? Development of an impressive visual demonstration of the hydrate database
2004	Dr. B. Wood	Task Group: Fundamental Constants	Latest recommended values were published on NIST website; detailed description of the data and analytical process published in Reviews of Modern Physics. Plans for future publications were discussed.
2004	Dr. J. Ripmeester	Task Group: Data on Natural Gas Hydrates	Workshop organized in Potsdam, Germany. NRC was recommended to be involved in the hosting of the gas hydrates database
2004	Dr. P. Mezey	Task Group: Data Visualization	Task Group meeting held in Canada; Preparation and publication of a book is in progress
2003	Dr. B. Wood	Task Group: Fundamental Constants	Decision reached, to pursue newer recommended values
2003	Dr. J. Ripmeester	Task Group: Data on Natural Gas Hydrates	A portal for participants to share information is in planning. Dr. Ripmeester was also highlighted in Feb. 2003 Canadian Research Horizons
2003	Dr. Guy Baillargeon	Task Group: Access to Biological Collection Data	New status: from Working group to Task group. Two sub-groups met to discuss joint endeavours
2002	Dr. B. Wood	Task Group: Fundamental Constants	Task Group meeting hosted in Canada

Appendix 5: CODATA and Student Prizes

CODATA Prize

Year	*Name*	*Results*	*Prize Recipient*
2008	Dr. James Sangster Thermochemistry and Thermodynamics Sangster Research Laboratories Montreal, Que.	Nominated	(Competition in progress)
2006	Dr. David Brown Crystallographic databases McMaster University, Hamilton, Ont.	Nominated	Dr. John Rumble (USA)
2004	Dr. David Brown Crystallographic databases McMaster University, Hamilton, Ont.	Nominated	Prof. Jean Bonnin (France)
2002	Dr. Arthur Pelton Metallurgy École Polytechnique, Montreal, Que.	Nominated and Selected	Dr. Arthur Pelton (Canada)

Student Prize (Canada's Sangster Award)

Year	*Name*	*Paper*	*Comments*
2008	(In progress. Posters widely distributed)		Deadline for receipt of applications: 31 March 2008. Presentation to be made at Opening Ceremonies of 21st CODATA Conference (Kyiv, Ukraine, 2008)
2006	Mr. Bo-Yong Liang, Ph.D. candidate, Computer Science, School of Computer Science, Carleton University (Ottawa, Canada).	Compressing Data Cube in Parallel OLAP Systems	Second recipient; Presentation made at Opening Ceremonies of 20th CODATA Conference (Beijing, China, 2006)
2004	Mr. Jau-Hsiung Wang, Ph.D. candidate, Geomatics Engineering, University of Calgary	Fuzzy Logic Expert Rule-based Multi-Sensor Data Fusion for Land Vehicle Attitude Estimation	Inaugural recipient; Presentation made at Opening Ceremonies of 19th CODATA Conference (Berlin, Germany, 2004)

Appendix 6: Canadian Involvement in International CODATA Events

Date of the Event	*Name of the Event*	*Location of the Event*	*Name of the Participant*	*Involvement of the Participant*
5-8 October, 2008	21st CODATA International Conference and 26th General Assembly	Kyiv, Ukraine *IN PLANNING *	Mrs. Mary Zborowski *Other possible Participants unknown*	Abstract submitted
April 2007	ICSU Young Scientists symposium	Lindau, Germany	Mr. Bo-Yong Liang	Invited participant

[2] Interpreted as the number of participants who are non-Canadian and not from the host country

23-25 October, 2006	20th CODATA International Conference and 25th General Assembly	Beijing, China	Mr. Bo-Yong Liang	Opening Ceremony: Presentation of (Canadian) Sangster Award 2006 to Bo-Yong Liang Contribution to Key Session D1 – Young Scientists: Compressing Data Cube in Parallel OLAP Systems
			Dr. G. H. Wood	Co-Chair of Key Session A1: CODATA: 40 Years of Bringing Data to the World Co-Chair of Session J5: Environment-conscious Actions for Sustainable Development
			Prof. M. Sabourin	Contribution to Session C8: National Consultation on Access to Scientific Research Data in Canada Co-Chair of Session E8: Data Access Policy
			Dr. Marc Rioux	Contribution to Session F6: Navigation, Visualization and Searching in Databases of Full Body 3D Scans
22 October, 2006	Consultation meeting: WSIS (World Summit on Information Science) Follow-up	Beijing, China	Dr. G. H. Wood Prof. M. Sabourin	Invited participants
25 October, 2006	Satellite Symposium: Young Scientists	Beijing, China	Mr. Bo-Yong Liang	Invited participant
7-10 November, 2004	Satellite Symposium: Materials Informatics and	Berlin, Germany	Dr. Paul Mezey	Member of Organizing Committee

	its Evolution			
5-6 November 2004	Gas Hydrates Data Task Meeting	Potsdam, Germany	Dr. J. Ripmeester	Presentation: Gas Hydrate Research, An Overview
October 2004	19th CODATA International Conference and 22nd General Assembly	Berlin, Germany	Dr. Paul Mezey	Member of conference Scientific Advisory Committee
				Chair of Session: Multi-Disciplinary Data Projects
			Dr. G.H. Wood	Chair of Session: Data Quality
			Dr. Luciana Duranti	Chair of Session, and Contribution to Session: Data Archiving: Long-term Preservation of Accurate and Authentic Digital Data: The InterPARES Project
			Prof. Fraser Taylor	Contribution to Session: Data Archiving: The Cybercartographic Atlas of Antarctica, and Related Archival Issues
			Mr. Jau-Hsiung Wang	Opening Ceremony: Presentation of (Canadian) Sangster Award 2004 to Jau-Hsiung Wang
				Contribution to Session: InfoScience Today: Fuzzy Logic Expert Rule-based Multi-Sensor Data Fusion for Land Vehicle Attitude Estimation
			Dr. E. Siekierska	Contribution to Session: Data Visualization: Visualization and Sustainable Development Decision Making
			Dr. R. Elizabeth Griffin	Contribution to Session: Multi-Disciplinary Data Projects: Studies of the Earth's Ozone from Historic Stellar Spectra
				Poster session 6: The Information Struggle
				Poster session 7: The Threat of Lost Libraries

29 Sept.- 5 Oct. 2002	18th CODATA International Conference and 23rd General Assembly	Montreal, Québec	Dr. A. Carty	Opening Speaker
			Prof. A. Pelton	Winner of CODATA Prize; speaker
			Dr. G. H. Wood	Chair International Scientific Program Committee; Opening & Plenary Session Chair
			Dr. G. Baillargeon	Plenary & Session speaker
			Mr. G. Burr	Participant
			Ms. M. Capelli Miguel	Participant
			Ms. G. Capretta	Poster
			Mr. S-K Chu	Participant
			Dr. R. Crawford	Poster
			Mr. B. Dumouchel	Participant
			Mr. T. Feehan	Speaker
			Mr. E. Fernandez	Participant
			Dr. M. LeMaire	Speaker
			Prof. D. Lievesley	Invited Speaker
			Prof. S. Matwin	Keynote Speaker
			Prof. P. Mezey	Speaker
			Dr. A. Mitnitski	Speaker
			Mr. G. Newton	Member of International Scientific Program Committee; Session organizer
			Dr. R. O'Neil	Speaker
			Dr. J. Ripmeester	Speaker
			Dr. J. Rodgers	Member of International Scientific Program Committee; Session organizer
			Prof. M. Sabourin	Conference Financial Oversight Committee; Session Organizer; Local Arrangements Coordinator
			Dr. D. Sankoff	Speaker
			Dr. D. Schade	Invited speaker
			Mrs. G. Shea	Participant
			Dr. D. Thomas	Invited Speaker
			Dr. J. Tse	Speaker
15–21 October, 2000	17th CODATA International Conference and 22nd General Assembly	Baveno, Italy	Prof. R. Hesse	Plenary Speaker
			Prof. P. G. Mezey	Session co-Chair; Speaker
			Prof. M. Sabourin	Session co-Chair; Speaker
			Dr. S. Frape	Speaker
			Mr. G. Newton	Speaker

			Dr. G. H. Wood	Participant
8-14 November, 1998	16th CODATA International Conference and 21st General Assembly	New Delhi, India	Prof. P.G. Mezey Dr. G. H. Wood	Speaker Member of the International Scientific Program Committee; Session co-Chair
29 Sept-4 Oct. 1996	15th CODATA International Conference and 20th General Assembly	Tsukuba, Japan	Prof. P.G. Mezey Dr. J.R. Rodgers Dr. P. Williams Dr. G. H. Wood	Speaker Member of the International Scientific Program Committee and coauthor Participant Member of the International Scientific Program Committee and participant
18-24 Sept. 1994	14th CODATA International Conference and 19th General Assembly	Chambéry, France	Prof. P.G. Mezey Dr. C. Seni Dr. J.R. Rodgers Dr. G.H. Wood	Coordinator of a session on "Recognition of Rigid and Deformable Objects" and Speaker Speaker Member of the International Scientific Program Committee and Speaker Participant
10-12 March 1994	Symposium and Meeting of the Data Sources in Asian-Oceanic Countries	Taipei, China	Dr. G.H. Wood	Invited participant
19-22 October 1992	13th CODATA International Conference and 18th General Assembly	Beijing, China	Dr. J.R. Rodgers Prof. P.G. Mezey Dr. G.H. Wood Dr. C. Yeung	Participant Speaker Participant Participant
13-15 April 1992	International Workshop on Regularities, Classifications and Predictions of Advanced Materials	Como, Italy	Dr. J.R. Rodgers	Chairperson of the International Organizing Committee

Appendix 7: Attraction and Staging of International Events of Value to the Canadian Community

Date of the Event	*Name of the Event*	*Location of the Event*	*Name of the Organizer*	*No. of Cdn Participants*
2002	CNC/CODATA jointly sponsored, with the USNC/CODATA, the 2002 CODATA International Scientific Conference.	Montreal	CODATA	26