

Canadian Council on Animal Care
Conseil canadien de protection des animaux

Good Animal Practice in Science
Bonnes pratiques animales en science



Canadian Council on Animal Care

Annual Report ***2005-2006***

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INTRODUCTION

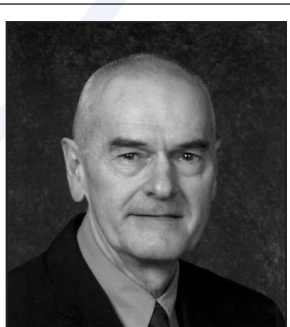
The Canadian Council on Animal Care (CCAC) is an autonomous and independent body, created in 1968 to oversee the use of animals in science in Canada. The CCAC is registered as a not-for-profit organization, and is financed primarily by the Canadian Institutes of Health Research (CIHR) and the Natural Sciences and Engineering Research Council (NSERC), with additional funds coming from federal science based departments and private institutions through their participation in the CCAC program. It is governed by a Council where 25 national organizations are represented.

The CCAC acts as a quasi-regulatory body and sets standards that apply across Canada: its mandate involves public functions and its guidelines are incorporated by regulatory bodies. It is accountable to the general public and is responsible for the dissemination of information on the use of animals in science to Canadians. Information made available through the CCAC includes all of its guidelines and policies, comprehensive annual statistics on the number of animals used in science, and the publication of an annual report.

The present report covers activities undertaken by the CCAC from April 1, 2005 to March 31, 2006.

CCAC Outstanding Service Award

Dr. Ernest Olfert, Director of the Animal Resources Centre at the University of Saskatchewan, received the CCAC Outstanding Service Award 2005-2006 in recognition of his seminal contributions to the CCAC and its programs.



Dr. Ernest Olfert, recipient of the CCAC Outstanding Service Award 2005-2006

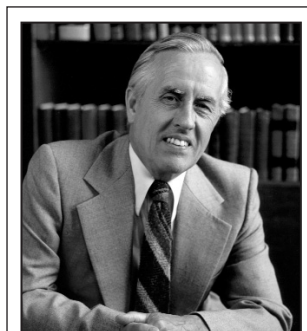
Dr. Olfert was the leading editor of the most important document published to date by the CCAC, the second edition of the *CCAC Guide for the Care and*

Use of Experimental Animals, Volume 1 (1993), which continues to earn both national and international recognition for the CCAC. He was also the driving force behind the development of the *CCAC guidelines on: choosing an appropriate endpoint in research, teaching and testing* (1998), a document recognized as an effective refinement tool worldwide. Dr. Olfert's most important contribution in the area of education and training of animal users is undoubtedly as leading co-author of 11 of the 12 training modules for animal users published by the CCAC in 2003. While these web-based modules were developed to assist institutional animal care committees, their impact has extended well beyond Canada's borders, adding to Dr. Olfert's legacy to future generations of animal users in Canada and elsewhere in the world.

Dr. Olfert is the second recipient of the CCAC Outstanding Service Award, joining the late Dr. Harry Rowsell in receiving the highest honour bestowed by the CCAC.

In Memory of Dr. Harry C. Rowsell (1921–2006)

Dr. Harry Rowsell was born in Toronto on May 29, 1929 to Newfoundland parents. After serving in the Royal Canadian Navy during World War II, Dr. Rowsell earned a degree in Veterinary Medicine at the Ontario Veterinary College, and went on to complete a Ph.D. in veterinary pathology at the University of Minnesota. Dr. Rowsell taught pathology at the veterinary schools of the universities of Guelph and Saskatchewan, and at the University of Ottawa Medical School. Dr. Rowsell was instrumental in creating the CCAC and was its first executive director, a position he held for 25 years.



Dr. Harry C. Rowsell, founding Executive Director of the CCAC



Dr. Rowsell published more than 200 scientific papers, abstracts, book reviews and book chapters throughout his career, and authored the entry on Animal Issues in *The Canadian Encyclopedia*. The universities of Saskatchewan and Guelph each conferred upon him an Honorary Doctor of Laws degree, and the Canadian Federation of Humane Societies (CFHS) acknowledged Dr. Rowsell's dedication to animal welfare by selecting him as the first recipient of the Lois H. Carroll Humanitarian

Award. His primary interest, the welfare of animals, and his work contributed to him being invested as an Officer of the Order of Canada in 1988, the first veterinarian to be so honoured. Dr. Rowsell was also made an Honorary Member of the American College of Laboratory Animal Medicine in 1979, making him the first non-U.S. resident to receive this honour. Multiple research fellowships and professional awards have been established in his honour.

REVIEW OF THE STRUCTURE AND OPERATIONS OF COUNCIL

The Canadian Food Inspection Agency (CFIA) was formally invited to join the CCAC Council as a limited term member on November 30, 2005. In his February 15, 2006 letter, President François Dumont confirmed that CFIA accepted the invitation to join CCAC Council and concluded that "we recognize and applaud the leadership your organization has shown in standard setting for animal welfare in the research community".

At the March 11, 2006 meeting of Council, the CCAC Board of Directors approved the formation of a CCAC task force on the promotion of the Three Rs (Reduction, Replacement and Refinement) tenet of Russell and Burch. The Task

Force on the Three Rs is advisory to the Board of Directors, and consists of four CCAC Council members and three external experts, with the Executive Director and Guidelines Program Director sitting *ex officio* (non-voting). To date, the Task Force has held an introductory meeting and developed draft Terms of Reference to be presented to the CCAC Board of Directors. It has also developed a plan for on-going communication and discussions through a CCAC-administered intranet site and occasional face-to-face meetings. Concurrent with the formation of the Task Force, the CCAC has also initiated discussions with the federal granting Agencies about promoting Three Rs research.

RECOGNITION OF CCAC STANDARDS

1. At the National Level

In Canada, the use of animals in science is a provincial responsibility, with the guidelines and policies set by the CCAC serving as national reference standards. The provincial legislation in five of the six provinces that have legislated on the matter make specific references to the CCAC guidelines and policies. The CCAC encourages regulators and funders of research to reference the CCAC standards in their legislation and programs at the federal and provincial level.

1.1 Federal Departments and Agencies

As a follow up to the October 31, 2004 meeting with representatives of federal departments and agencies represented on the CCAC Council, and on the basis of the needs expressed by governmental laboratories to members of the CCAC Assessment Sector, a draft Memorandum of Understanding (MOU) between the CCAC and federal science-based departments and agencies (SBDAs) has been developed by the Assessment Sector. The MOU is designed to cover the elements necessary for the SBDAs to have complete animal care and use programs that meet the CCAC guidelines and policies, and to define the ways in which the CCAC and the SBDAs work together.

Public Works and Government Services Canada (PWGSC)

As part of the ongoing update of the *Standard Acquisition Clauses and Conditions (SACC) Manual* by PWGSC, and as a result of exchanges between the CCAC and the Science and Professional Services Procurement Directorate (SPSPD) of PWGSC, major amendments have been made to the "Experimental Animals (A9015C)" clause governing "Research and Development" type contracts involving the use of experimental animals negotiated and issued by the Science Procurement side of the SPSPD on behalf of numerous government departments and agencies, effective January 26, 2006. The clause now requires that any work involving the care and use of experimental animals

must be carried out in compliance with the CCAC programs and only by institutions holding a CCAC Certificate of GAP – Good Animal Practice®.

Agriculture and Agri-Food Canada (AAFC) and CFIA

The CCAC Executive Director participated in the second meeting of the newly created National Farm Animal Care Council on December 6, 2005 and in the Canadian Animal Health and Emergency Management Conference hosted by the Canadian Animal Health Coalition and sponsored by AAFC and CFIA on December 7, 2005.

Genome Canada

The CCAC Executive Director was an invited participant in the Second Workshop on the Genome Ethical, Environmental, Economic, Legal and Social (GE³LS) Aspects of Genomics and Proteomics Research, held in Ottawa on February 6-7, 2006. Participants adopted the following recommendation during the concluding plenary session: "With respect to the GE³LS service component of science projects, Genome Canada should work with the CCAC, the National Council on Ethics in Human Research and the Interagency Panel on Research Ethics to take advantage of their expertise and their mechanisms to support Genome Canada scientists".

1.2 Provincial Departments Alberta Animal Protection Act

The revised *Alberta Animal Protection Act* (APA) was proclaimed on January 3, 2006. The Act and its regulations have recently been posted on the Alberta government website at http://www.qp.gov.ab.ca/documents/Regs/2005_203.cfm?frm_isbn=0779741455.

As a result of discussions initiated in early 2005 between the CCAC and the Alberta Agriculture, Food and Rural Development Ministry (AAFRD), article 2(1) of the *APA Animal Protection Regulations* now states that "A person who owns or has custody, care or control of an animal for research activ-



ities must comply with the following Canadian Council on Animal Care documents", and lists all 22 standards (the *CCAC Guide to the Care and Use of Experimental Animals*, and the various guidelines and policy statements) published by the CCAC. It was also agreed that new and revised standards published by the CCAC are to be brought to the attention of the AAFRD for incorporation to the Regulations.

1.3 Health Law Review and the CCAC

An article titled "Contrasting Modes of Governance for the Protection of Humans and Animals in Canada: Lessons for Reform" was published in a special issue of the *Health Law Review* on Canadian governance for research involving humans (vol. 13, nos. 2 & 3, 2005). Co-authored by Dr. Catherine Schuppli, a Postdoctoral Fellow at the W. Maurice Young Centre for Applied Ethics at the University of British Columbia, and Dr. Michael McDonald, Chair of the Centre and a past representative of the Canadian Bioethics Society on the CCAC Council, this landmark article is based on a study financed in part by the CIHR Ethics of Health Research Training Program. It compares six key dimensions of governance, namely compliance, independence, transparency, accountability, quality assurance and education. The authors conclude that:

"The existing governance system for research animals offers important insights and experience that seem directly relevant to the improvement of Canadian governance of human research protection. Perhaps the possibility even exists for cooperation or sharing efforts to advance protection for both animal and human research subjects simultaneously. Of course we are not saying that the CCAC model is ideal, but along the dimensions that we have discussed it has several advantages: it is an example of a Canadian model of governance that tries to work across both federal/provincial, and public/private jurisdictions. The model is moderately independent from research and sponsor interests; it monitors and assesses effectiveness of the system and compliance with standards; it collects and publishes information about the effectiveness of the system as well as research trends; and it has a

national education program. Hence it is more transparent and accountable, and it provides quality assurance."

2. At the International Level

The CCAC monitors developments at the international level and entertains relationships with advisory and governing bodies, and scientific societies interested in the use of animals in science. In addition, as per the *CCAC Five-Year Plan 2004-2009*, the harmonization of international standards is amongst the top priorities of the CCAC Guidelines Program. The following are supporting activities undertaken by the CCAC.

International Council for Laboratory Animal Science (ICLAS)

As a member of the ICLAS Subcommittee on Endpoints, the Guidelines Program Director, Dr. Gilly Griffin, contributed to the *ICLAS International Harmonization of Guidelines on Humane Endpoints*. This document was submitted to ICLAS on May 9, 2005 for consideration by the ICLAS Board of Directors.

Dr. Gilles Demers, CCAC Assessment Director and ICLAS President, confirmed on June 5, 2005 that the ICLAS Board of Directors officially recognized the *CCAC guidelines on: choosing an appropriate endpoint in experiments using animals for research, teaching and testing* (1998) as an international reference document. This premiere was the subject of an article published in the May 5, 2006 edition of the scientific journal *Science*. The full article is available online at: <http://www.sciencemag.org/archive/>

International Consensus Meeting on Fish

The Guidelines Program Director gave a presentation on the *CCAC guidelines on: the care and use of fish in research, teaching and testing* at the International Consensus Meeting: Harmonisation of the Care and Use of Fish in Research in Oslo, Norway on May 23-26, 2005. The main themes of the meeting were health and welfare, guidelines for fish research – best practices, and implementation of the Three Rs.

International Policy for Space Flight Animal Research Working Group

Recognizing the expertise that the CCAC possesses in areas pertaining to animal care and use in science, the Canadian Space Agency (CSA) invited the CCAC to contribute to the work of the Committee on Space Research (COSPAR) International Working Group for the Care and Use of Animals in Space Research, in developing internationally approved guidelines for animals used in space research. Discussions initiated in early April 2005 between the CSA Director of Life and Physical Science and the CCAC Executive Director resulted in a letter of agreement being signed on May 25, 2005, acknowledging that the CCAC Guidelines Program Director would represent both the CCAC and the CSA on the International Working Group, and detailing the respective responsibilities of the parties over the coming year. Dr. Griffin attended three meetings of the COSPAR International Working Group: on June 7-9, 2005 in Mountain View, California; on October 18-19, 2005 in Noordwijk, The Netherlands; and on January 24-25, 2006 in California. The resulting revised COSPAR Policy will be presented in Beijing in July 2006.

Second International Conference on the Use of Humane Endpoints in Animal Experiments for Biomedical Research

The second international conference on humane endpoints was held August 20-21, 2005 in Berlin, Germany, prior to the 5th World Congress on Alternatives and Animal Use in the Life Sciences. Drs. Clément Gauthier, Griffin, and the CCAC Research Fellow, Ms. Julie Comber, attended the meeting. Dr. Griffin gave a presentation on the CCAC *guidelines on: choosing an appropriate endpoint in experiments using animals in research, teaching and testing*. The content of the presentation is the subject of an article co-authored by Drs. Griffin and Gauthier which will be published in *Laboratory Animals*.

5th World Congress on Alternatives and Animal Use in the Life Sciences (5WC)

The Congress is unique in that, every three years, it brings together: representatives from cosmetic, chemical and pharmaceutical industries; international regulatory agencies; and animal welfare organizations from all parts of the spectrum to discuss progress in safety testing. In addition, sci-

entists from academia and industry present recent advances in molecular biology and cell culture that permit the reduction and replacement of animal use, as well as the minimization of pain and distress.

The Chair of the CCAC Council, Dr. Andrew Tasker, as well as Drs. Gauthier, Griffin, and Demers and Ms. Comber, attended the 5th World Congress on Alternatives in Berlin, Germany on August 21-25, 2005. The Executive Director served as a co-chair for a session on Ethical Review – Good Practice and Outputs, the Guidelines Program Director gave two presentations, and the CCAC Research Fellow delivered a presentation and a scientific poster.

ILAR-FELASA International Focus Group on Harmonization

On August 25-26, 2005, following the 5WC, Drs. Tasker, Gauthier, Demers and Griffin attended a meeting of the International Focus Group on Harmonization and Research Needs in Laboratory Animal Care and Use, organized by the Federation of European Laboratory Animal Science Associations (FELASA) and the U.S. Institute of Laboratory Animal Research (ILAR). Participants discussed possible scenarios for international harmonization of laboratory animal care guidelines and identified research necessary for the development of better science-based guidelines.

American Association for Laboratory Animal Science (AALAS) and ICLAS

Drs. Gauthier, Griffin, and Demers and Ms. Marie Bédard, CCAC Assessment Director, participated in the Second International Meeting on Harmonization of Guidelines on: i) Animal User Training Programs; and ii) Protocol Review, organized by ICLAS during the AALAS Annual Meeting in St. Louis on November 5-6, 2006.

World Organisation for Animal Health (OIE)

The special issue of the *OiE Scientific and Technical Review* on Animal Welfare: Global Issues, Trends and Challenges was published in November 2005. Drs. Gauthier and Griffin contributed an invited article titled *The Use of Animals in Research, Testing and Teaching*. This publication is circulated by OIE to its constituents in 166 countries.



RESULTS BY BUSINESS LINE

The following are the main objectives set forth in the *CCAC Five-Year Plan 2004-2009* (published in March 2004) in order to establish clear goals for the CCAC's three programs:

- maintaining the 10-week delivery time line for assessment reports and decreasing delays in processing implementation reports;
- addressing bottlenecks precluding the development of scientifically-based guidelines thus enabling research to be carried out in a timely and sustainable manner;
- sustaining human resource development projects as requested by the granting Agencies; and
- increasing the effectiveness of CCAC's communications with the Canadian public as well as between CCAC programs, to achieve greater efficiency in support of the universal implementation of the CCAC programs.

The activities conducted by CCAC's four business lines during Fiscal Year 2005-2006 are outlined in the following section.

1. Assessment

The keystone to the CCAC Assessment Program is the local animal care committee set up by each participating institution according to the *Terms of Reference for Animal Care Committees* established by the CCAC. The CCAC Assessment Program, through a peer review process, is responsible for overseeing the care and use of animals for scientific purposes in Canada. Assessment visits are conducted by multi-disciplinary teams of experts and community representatives. Following every visit, a detailed report is prepared and forwarded to the institution.

1.1 Assessment Visits

Fifty-eight full assessment visits and thirty-three initial/orientation/special/interim visits were completed between April 1, 2005 and March 31, 2006. Four institutions from the academic sector

and six institutions from the private sector joined the CCAC Program in 2005-2006, and eight more institutions have expressed an interest in joining the CCAC Program.

1.2 Assessment and Implementation Reports

Detailed reports are prepared following each full assessment visit, which may include recommendations, where necessary, to improve animal care and use to a standard in keeping with CCAC guidelines. Assessment reports continued to be produced within the 10-week deadline (from the day of the assessment visit until the day the final report is sent to the institution) and, in some cases, a draft of the serious recommendations resulting from a visit was forwarded electronically to the institution immediately after the assessment visit.

Institutions must submit implementation reports to address the recommendations expressed in their assessment report. The receipt of implementation reports or of additional information requested by Assessment Directors is being closely monitored. In several cases, Assessment Directors have requested annual or bi-annual reports on the progress of an institution in implementing the recommendations of the CCAC report.

1.3 Certificate of GAP — Good Animal Practice®

The CCAC established the Certificate of GAP – Good Animal Practice® / Certificat de Bonnes pratiques animales – BPA^{MD}, which is registered as a trade-mark with the Canadian Intellectual Property Office, to provide CCAC participants with a tangible confirmation of the quality of their institutional animal care and use program for their clients, stakeholders, collaborators, etc. A list of holders of the CCAC Certificate is maintained on the CCAC website.

One of four possible statuses is assigned to represent how well an institution complies with CCAC standards: Compliance, Conditional Compliance, Probation and Non-compliance. A total of 28 CCAC

Certificates were issued in the 2005-2006 fiscal year, 14 of which went to institutions that received a status of Compliance and another 14 to institutions that received a status of Conditional Compliance. During this period, one institution was assigned a status of Non-compliance, but was re-assigned to a status of Probation once the Assessment Committee was satisfied with the response provided by the institution to address concerns outlined in the CCAC assessment report. One institution was assigned a status of Probation and another institution remained in Probation, while two other institutions received a renewal of their Certificates following interim visits. Interim visits are conducted by a CCAC Assessment Director mid-way between two full assessment visits, which are held six years apart in institutions that have achieved two consecutive statuses of Compliance, and that have identified no significant change or concern in their animal care and use program.

1.4 Additional Activities

Each year institutions are required to complete the *CCAC Survey of Animal Use*. The statistics for 2003 and 2004 were completed and posted on the CCAC website in December 2005 and January 2006, respectively (see Appendix I for further details). The section of the CCAC website related to animal use statistics and the reporting of animal data has also been improved with the addition of more detailed information, including the new *CCAC interpretation bulletin on: the animal use data form*. This document was developed to assist institutions in completing their animal use data forms.

A joint *CCAC - CFHS Manual for Community Representatives* has been developed and is currently being formatted for publication. The Manual will provide information to community representatives with regard to animal care and use in science, the CCAC policies and guidelines, and the role of community representatives serving on animal care committees and the CCAC assessment panels.

A revised version of the 2000 *CCAC policy statement on: terms of reference for animal care committees* has been produced and translated. Both documents (French and English) were approved for publication and distribution in March 2006.

2. Guidelines

The delivery of the CCAC's mandate is based on guidelines and policies which give clear direction to institutional animal care and use programs. Guidelines are developed and revised in response to the current and emerging needs of the research community, advances in laboratory animal care, and the needs of the CCAC Assessment Program.

2.1 Guidelines Development

CCAC guidelines on: the care and use of farm animals in research, teaching and testing

A Farm Animal Subcommittee meeting was held on November 23-24, 2005 in Ottawa to address outstanding issues arising from the peer review of the farm animal guidelines. Members of the subcommittee and the Guidelines Sector have revised the draft, which will be posted on the website in both official languages for widespread review in July 2006.

CCAC guidelines on: genetically engineered animals

The Biotechnology Subcommittee met on December 5-6, 2005 in Ottawa to discuss the preliminary draft of the *CCAC guidelines on: genetically engineered animals* prepared by the CCAC Research Fellow. Once the draft is approved by the subcommittee and the Guidelines Committee, it will be sent to a select group of experts for peer review.

CCAC guidelines on: the care and maintenance of marine mammals

Development of these guidelines slowed recently due to a lack of critical references; however, outstanding issues are now being addressed in order to prepare the draft document for widespread review.

CCAC adoption of euthanasia document

A draft euthanasia guidelines document is being prepared for peer review. The document is based on: 1) the recommendations made by the ICLAS Working Group on Harmonization; 2) a review of the use of CO₂ by a graduate student at the University of British Columbia; and 3) an international consensus meeting on CO₂ use for euthana-



sia of laboratory animals, held in Newcastle, UK on February 27-28, 2006.

CCAC adoption of animal care and maintenance guidelines

The Guidelines Program Director has been reviewing species-specific guidelines on the care and maintenance of laboratory animals from the Council of Europe, the U.S. and Australia, with assistance from Dr. Olfert, editor of the *CCAC Guide to the Care and Use of Experimental Animals* (1993). Communications with representatives of the relevant agencies regarding the possibility of adopting their guidelines through a mechanism approved by the Guidelines Committee are underway.

2.2 Subcommittee Functioning

Three face-to-face subcommittee meetings were held in April 2005, greatly contributing to the active participation of the subcommittee members in the development of their respective guidelines. A meeting of the Fish Subcommittee allowed for the resolution of some final issues with the fish guidelines prior to publication. The meeting of the Farm Animal Subcommittee served to move the draft guidelines closer to peer review, and the meeting of the Biotechnology Subcommittee resulted in the resolution of some key outstanding issues that had been raised in the Research Fellow's discussion papers.

Two more face-to-face subcommittee meetings were held toward the end of 2005 which provided the members of the Farm Animals Subcommittee and Biotechnology Subcommittee with further opportunities to share ideas and resolve critical issues. The CCAC Workshop on Animal Welfare Assessment, held on April 12, 2005, also allowed members from both the Farm Animals and Biotechnology Subcommittees to receive early input from those who will be most affected by their respective guidelines, which will assist them in ensuring that animal welfare assessment is adequately addressed within the guidelines.

2.3 Guidelines Implementation

A workshop was held on April 2, 2005 in Vancouver to formally introduce the *CCAC guidelines on: the care and use of fish in research, teaching and testing*. Sixty-three participants attended the

workshop at which presentations outlining the topics covered in the guidelines were given by the Guidelines Program Director, the Guidelines Committee Chair, and eight other members of the Fish Subcommittee. Dr. Jim Brackett, CEO of the BC Centre for Aquatic Health Sciences, also gave a presentation on fish welfare issues and evolving public perceptions.

A document explaining the implementation of the fish guidelines and a paper on fish anesthetics were posted on the CCAC website, as well as a link to a list of guidelines and other resources maintained by the Norwegian School of Veterinary Science. A list of frequently asked questions (FAQs) will be added to the website to further facilitate the implementation of the guidelines.

2.4 International Harmonization

The Guidelines Program Director met with the Executive Director and a Program Manager of the UK National Centre for the Three Rs (NC3Rs) in October 2005. This meeting was used to gain a better understanding of the work of the NC3Rs and areas for possible interaction between the CCAC and NC3Rs. Two current areas of mutual interest are food and water restriction and testing. The NC3Rs' replacement advisory group is also a useful resource, and their document on welfare assessment of genetically altered animals is a valuable reference for the *CCAC guidelines on: genetically engineered animals*.

The Guidelines Program Director met with members of the Universities Federation for Animal Welfare (UFAW) to discuss issues in relation to the revision of volume 2 of the *CCAC Guide to the Care and Use of Experimental Animals*. UFAW is also undertaking revision of their *Handbook on the Care and Management of Laboratory Animals* and is a useful contact in terms of knowledge and on-going discussion of how to manage the revision process.

2.5 Interaction with the Scientific Community

Two workshops organized by the CCAC, on the fish guidelines and on animal welfare assessment, provided excellent opportunities to interact with members of the scientific community. The

Guidelines Program Director also attended the meetings of the following organizations:

- National Council on Ethics in Human Research (NCEHR), Ottawa, March 4, 2005;
- Canadian Veterinary Medical Association (CVMA) Animal Welfare Committee, Ottawa, March 4-6, 2005;
- Health Canada (HCan) Veterinary Drugs Directorate, Ottawa, May 4, 2005;
- Expert Committee on Farm Animal Welfare and Behaviour, Guelph, June 10-11, 2005;
- Canadian Association for Laboratory Animal Science (CALAS), Vancouver, June 25-28, 2005; and
- Canadian Society of Animal Science (CSAS), Cincinnati, July 25-27, 2005.

The Guidelines Program Director and the Research Fellow attended the Association francophone pour le savoir (Acfas) Colloque on May 12, 2005 at the Université de Québec à Chicoutimi, the topic of which was *Quel avenir pour la modification génétique des animaux?* They delivered a joint presentation on the ethical questions underlying the revision of the *CCAC guidelines on: transgenic animals*. The Colloque provided the opportunity to hear from, and share ideas with, scientists involved in research on genetically-engineered animals in Québec.

The Research Fellow participated in a stage at the Université Laval in Québec from July 11-22, 2005, hosted by Dr. Lyne Létourneau and Dr. François Pothier of the Department of Animal Science.

The Guidelines Program Director met with the Canadian Council of University Biology Chairs (CCUBC) on November 2, 2005 in Ottawa to discuss issues of concern and, in particular, means of increasing involvement of CCUBC members in the review of draft guidelines and the submission of best practice information for the development of species-specific information to support published guidelines.

The Guidelines Program Director attended the annual Canadian Physiological Society meeting at Lake Louise, Alberta on February 2-4, 2006, where

she delivered a presentation on the international harmonization of animal welfare standards. This meeting provided the opportunity to interact with animal users and address concerns about CCAC requirements, in relation to requirements implemented elsewhere, and the importance of this in light of increasing international collaboration.

2.6 CCAC Fellowships

The first two-year CCAC Fellowship in Animal Policy Development was completed on December 31, 2005. Prior to her departure, the Research Fellow produced the preliminary draft of the *CCAC guidelines on: genetically-engineered animals*, which will continue to be developed under the Biotechnology Subcommittee. A second CCAC Fellowship in Animal Policy Development in the area of animal use in regulatory testing will begin in September 2006.

3. Education, Training and Communications

All personnel involved with the use of animals in research, teaching and testing must be adequately trained in the principles of animal care and use, and in the ethical issues involved in animal use. An appropriate training program is an essential component of any institutional animal care and use program. The CCAC therefore developed the National Institutional Animal User Training (NIAUT) Program, and both hosts and attends conferences promoting high standards of care for animals used for scientific purposes.

3.1 Training and Education Conferences and workshops

A workshop on the *CCAC guidelines on: the care and use of fish in research, teaching and testing* was held on April 2, 2005 in Vancouver, BC, and a workshop on animal welfare assessment for farm animals and genetically modified laboratory animals was held on April 12, 2005 in Ottawa, ON (for more details, see Section 2 – Guidelines).

More than 100 participants attended the CCAC National Workshop held June 29, 2005, in Vancouver, BC. Presentations were made by a panel of international experts on appropriate func-



tioning of local animal care committees, and the assessment of the well-being of genetically-modified animals, as well as emerging issues. Participants who completed the feedback form were unanimous in requesting that a similar event be organized every year.

National Institutional Animal User Training (NIAUT) Program

A new bank of questions and answers to complement the training modules were prepared and translated. A technical review of the training modules was also performed, in which all links contained within the modules were updated, the CCAC style was applied, graphics and charts were refined, and navigation was simplified. The revised modules were posted on the CCAC website in December 2005, and an updated Web-CT version is in preparation in collaboration with the universities of British Columbia and Ottawa.

Short-term training of consulting veterinarians

The CCAC recognized the need for some laboratory animal veterinarians to receive additional training in laboratory animal medicine, and identified this as a priority in the *CCAC Five-Year Plan 2004-2009*. To begin addressing this need, in 2004-2005 the CCAC applied for, and received, funding through a special initiative of CIHR and NSERC in order to subsidize the training of consulting veterinarians interested in obtaining a certificate in laboratory animal medicine (offered through the Office of Open Learning at the University of Guelph). A total of 10 veterinarians were supported by the CCAC.

The CCAC continues to strongly encourage participation in this important program, which allows veterinarians with little laboratory animal medicine expertise to gain valuable knowledge and experience. Unfortunately, a request for on-going funding to continue to support this initiative was rejected by the granting Agencies because it was felt that continuing education is an institutional responsibility. The CCAC is undertaking a number of new initiatives in an effort to support and facilitate continuing education for laboratory animal veterinarians and to encourage institutions to provide financial support for such undertakings. On October 18, 2005, the CCAC contacted the Senior

Program Officer of the federal Indirect Costs Program Secretariat to inquire if such expenditures were eligible under the Program. The following day, Ms. Lorraine Hubert confirmed that "funding for training in the area of animal care is certainly an eligible expenditure under the Regulatory Requirement priority area and universities should not hesitate to spend funds in this manner".

In consultation with the Canadian Association for Laboratory Animal Medicine (CALAM), the CCAC is also considering setting minimum requirements for continuing education in laboratory animal medicine. Specific standards would depend on the experience of the veterinarian, the nature and scope of the institutional animal care and use program, and the veterinarian's responsibilities within the program. An exploratory meeting involving CCAC Secretariat members, the President of CALAM, Dr. Sally Walshaw, and the CALAM representative on CCAC Council, Dr. Marilyn Keaney, took place in Ottawa on February 2, 2006.

3.2 Communications

The following information capsules were sent to constituents:

- March 23, 2005 to announce the CCAC National Workshop 2005;
- April 12, 2005 on behalf of the CFIA, regarding export regulations for rodents;
- June 13, 2005 regarding the CCAC 2005 National Workshop;
- August 18, 2005 to announce the availability of the electronic version of the *CCAC Annual Report 2004-2005*;
- September 20, 2005 to announce the availability of the electronic version of the *CCAC guidelines on: the care and use of fish in research, teaching and testing*;
- September 21, 2005 to announce the publication of the fish guidelines;
- October 5, 2005 concerning short-term training in laboratory animal medicine;
- October 14, 2005 on behalf of the CFIA regarding exportation of rodents to Japan;

- October 31, 2005 to announce the CCAC National Workshop 2006; and
- February 15, 2006 to announce the CCAC Fellowship 2006-2008.

People for the Ethical Treatment of Animals (PETA) launched a write-in campaign concerning a biotechnology company with facilities in Europe and Canada. Approximately 300 letters were sent to the CCAC and replies were sent to all correspondents.

CCAC Website

The section of the website housing statistics on animals used in research, teaching and testing was restructured to ease navigation, and detailed tables were added. Under the publications section of the website, volumes 1 and 2 of the *CCAC Guide to the Care and Use of Experimental Animals* were added to complete the set of official CCAC publications available for download. The publication order form was also automated so that printed material can now be ordered online.

Media

The CCAC was invited by TV5 to participate in an episode of *Bien ou Mal*, a new series that examines ethical issues that stem from advancements in science. Drs. Demers and Chantal Lambert, professor at the Department of Pharmacology of the Université de Montréal and member on the CCAC Council, were interviewed for the episode which focused on laboratory animals. The resulting episode aired in Canada and Europe in February 2006.

Dr. Michael Baar, CCAC Assesment Director, was interviewed for an article that appeared in the February 7, 2006 edition of *The Globe & Mail* concerning the role that dogs play in medicine and science.

Many organizations noted the passing of CCAC's founding executive director, Dr. Harry Rowsell, on February 3, 2006. A memorial photo gallery was posted on the CCAC website in his honour.

3.3 Publications

In an effort to enhance the corporate identity of the CCAC, new artwork was developed for integration

into key communication products. Two official CCAC PowerPoint templates were designed for use by the Secretariat and a banner, showcasing the new artwork and the CCAC mandate, was created for display at conferences. The new artwork also provided the template for the layout of the *CCAC Annual Report 2004-2005*. The Annual Report, in a departure from previous years, is now targeted at the Canadian public, and will be circulated to members of the House of Commons and Senate yearly.

The following documents were published by the CCAC:

- the *CCAC Annual Report 2004-2005* was published in July 2005 in both official languages;
- the *CCAC guidelines on: the care and use of fish in research, teaching and testing* was released on September 9, 2005 in both official languages;
- A scientific poster was designed for the CCAC Research Fellow to present at the 5th World Congress on Alternatives;
- *RESOURCE* 28(2) was published in December 2005 in both official languages;
- Results of the 2003 and 2004 *CCAC Survey of Animal Use* were published on the CCAC website in December 2005 and January 2006, respectively; and
- The *CCAC interpretation bulletin on: the animal use data form* was published in March 2006.

3.4 Information Technology

Most outstanding recommendations contained in the *CCAC Network and Security Audit 2005* were addressed and implemented. A more robust fire-wall was installed to protect the network and to monitor traffic, and an automated system to produce detailed inventories of all software and hardware, as well as comprehensive reports of configurations and settings, was established.

4. Finance

On September 12, 2005, the Finance Committee reviewed the revised 2005-2006 budget and the 2004-2005 auditors' report. Both documents were approved by the Board of Directors and Council.



Logan Katz Chartered Accountants reviewed the CCAC's 2004-2005 financial statements and concluded that they fairly represented the financial position of the Council, and that the results of its operations and changes in its cash flows for the year were in accordance with generally accepted Canadian accounting principles.

4.1 CCAC Grant Submission to CIHR and NSERC

In a letter received on July 14, 2005, the granting Agencies confirmed a 24.1% increase in funding for the coming three years in support of one of the two options recommended by the CIHR-NSERC Evaluation Committee. The Agencies also reinforced their desire to have CCAC explore alternatives to the current funding model.

The CCAC replied in a July 28, 2005 letter to express its appreciation for the vote of confidence that is implicit in the Agencies' decision to give such a substantial increase while they are grappling with ever-increasing demands for support.

However, the CCAC's letter also pointed to the fact that the funding granted falls short of the amount estimated to effectively run the CCAC, and invited discussions on ways to enhance long-term funding.

4.2 Business Model

Subsequent to discussions held on February 19, 2005, the Board of Directors determined that a business model would benefit the entire corporation and improve client satisfaction for all its services. At the June 10, 2005 meeting of the CCAC Board of Directors, it was agreed that the business model would look at CCAC clients, services, and the cost of performing services, as well as the potential for growth.

The consulting firm Deloitte & Touche was commissioned to produce the *CCAC Limited Business Review*, the final draft of which was submitted to the CCAC on February 16, 2006. The Finance Committee studied the report and submitted their recommendations to the Board of Directors in March 2006.

Andrew Tasker, Ph.D.
Chair, CCAC
March 2006

APPENDIX I

CCAC SURVEY OF ANIMAL USE – 2003 and 2004

Total of Animals Used in 2003 and 2004 per Species

Species	Total in 2003	Total in 2004
Amphibia	55,000	39,654
Cats	3,530	3,906
Cephalopods	6,920	13
Chinchilla	29	21
Dogs	9,501	9,445
Domestic Birds	108,769	83,473
Farm Animals	92,204	59,017
Fish	988,784	683,164
Fur Animals	1,059	1,109
Gerbils	1,446	1,705
Guinea Pigs	28,902	32,932
Hamsters	6,471	5,345
Marine Mammals	2,085	1,897
Mice	789,061	964,141
Miniature Swine	52	95
Non-Human Primates	2,866	2,379
Rabbits	14,858	12,729
Rats	314,871	329,894
Reptiles	4,951	3,405
Canadian Wild Species	57,483	71,990
Other Non-Canadian Species	377	918
Total	2,489,219	2,307,232

For more details, visit http://www.ccac.ca/en/Publications/New_Facts_Figures/intro.htm



APPENDIX II

MEMBERS ON CCAC ASSESSMENT PANELS

Scientific Members

- Ms. Jo-Ann Aubut, Algonquin College
- Mr. John Batt, Dalhousie University
- Mr. Jean-Marie Chavannes, Montreal General Hospital
- * Dr. Michael Clarke, University of Ottawa
- * Dr. Wayne Cole, Ridgetown College
- * Dr. Joseph Davison, University of Calgary
- * Dr. Mark Evered, Thompson Rivers University
- * Dr. Michel Flamand, Centre Hospitalier de l'Université Laval
- Dr. Peter Flanagan, University of Western Ontario
- Dr. Larry Hammell, University of Prince Edward Island
- Mr. Serge Higgins, Université Laval
- Dr. Richard Hodges, University of Manitoba
- Ms. Sheela Iyer, NPS Pharmaceuticals
- Mrs. Simmone Kerswell, University of Alberta
- * Dr. Rama Khokha, Ontario Cancer Institute
- * Dr. Edwin A. Kroeger, University of Manitoba
- * Dr. Chantal Lambert, Université de Montréal
- Dr. Daniel Lamontagne, Université de Montréal
- * Dr. Suzanne MacDonald, York University
- Ms. Lynn MacDonald, University of British Columbia
- Mr. Yvan Marineau, Université du Québec à Trois-Rivières
- Ms. Mary E. Martini, University of Guelph
- * Dr. Donald McKay, University of Alberta
- * Mr. Denis McKnight, Kemptville College
- Dr. Terry W. Pearson, University of Victoria
- * Dr. Jim Pfaus, Concordia University
- * Dr. Mark Torchia, University of Manitoba
- * Mr. Normand Turcotte, Health Canada
- * Dr. Claire-Dominique Walker, McGill University
- Mr. Norman White, University of Toronto



Community Members

Mr. Morris Airey, Alberta SPCA
Mrs. Joan Barker, Manitoba
Mr. Rock Bédard, Québec
Ms. Line Bélanger, New Brunswick
Ms. Reine Bélanger, SPA de l'Estrie
Mr. Al Bentley, Sudbury SPCA
Ms. Cathie Bérubé, SPA de Québec
Mr. Émile Bisailon, Québec
Mr. Hugh Coghill, British Columbia
Mr. Martin Cole, Ontario SPCA
Dr. Dirk Dekens, Canadian Federation of Humane Societies
Mr. Mike Draper, Ontario SPCA
Mr. Shawn Eccles, British Columbia
Ms. Susan Edwards, Ontario
Ms. Tanya Firmage, British Columbia SPCA
Ms. Lise Gagnier, Québec
Mr. Brian Godfrey, British Columbia
Mr. Darren Grandel, Ontario SPCA
Ms. Mindy Hall, Ontario SPCA
Mr. Andrew Hebda, Nova Scotia
Ms. Carolyn Hickey, Newfoundland
Mrs. Lise J. Houde, Québec
Mr. Ian MacMillan, Saskatchewan SPCA
Ms. Evelina Smith, Québec
Mrs. Miriam Smith, Ottawa Humane Society
Mr. Claude Tétreault, Québec
Ms. Martine Thériault, Ontario
Ms. Judith Tulloch, Nova Scotia
Mr. Robert Van Tongerloo, Ontario
Dr. David Wooldridge, British Columbia
Mr. Malcolm G. Wootton, Ontario



Veterinarian Members

- Dr. Simon Authier, LAB Research Inc.
- * Dr. Toni Bayans, University of Alberta
 - * Dr. Craig Bihun, NRC, Institute for Biological Sciences
 - Dr. Ronald Charbonneau, Centre Hospitalier de l'Université Laval
 - * Dr. Luc Chouinard, Charles River Laboratories Preclinical Services Montréal Inc.
 - * Dr. T. Jeffrey Davidson, University of Prince Edward Island
 - * Dr. Tyrrel de Langley, University of Western Ontario
 - * Dr. Kathleen Delaney, McMaster University
 - Dr. Brigitte Dubé, Cégep de St-Félicien
 - Dr. Josée Dupras, Université de Montréal, Faculté de médecine vétérinaire
 - * Dr. Stéphane Faubert, AccelLAB
 - * Dr. Andrew Fletch, McMaster University
 - * Dr. Diane Frank, Université de Montréal, Faculté de médecine vétérinaire
 - Dr. Peter Gasper, University of Alberta
 - * Dr. Tamara Godbey, University of British Columbia
 - * Dr. Jim Gourdon, Cornell University
 - Dr. Jean-Marc Guillemette, Cégep de St-Hyacinthe
 - Dr. Gildas Haméon, Cégep de St-Félicien
 - Dr. Barb A. Hildebrand, Dalhousie University
 - * Dr. Rod Jouppi, Laurentian University
 - * Dr. Edwin Kroeger, University of Manitoba
 - Dr. Urszula Kupinska, Hospital for Sick Children
 - Dr. Jenny Laing, Trent University
 - Dr. Mathias Leblanc, McGill University
 - Dr. Alex Livingston, University of Saskatchewan
 - * Dr. William Marshall, St. Francis Xavier University
 - Dr. Lynn Matsumiya, McGill University
 - * Dr. Sarah McLaughlin, Northern College
 - * Dr. Stéphane Ménard, Université de Montréal
 - * Dr. Badru Moloo, University Health Network
 - Dr. Debbie Muirhead, University of Lethbridge
 - * Dr. Catherine Munger, Cégep de St-Félicien
 - * Dr. Milton Ness, Northern Alberta Institute of Technology
 - Dr. Lise Phaneuf, University of Guelph
 - Dr. Madeleine Stephens, Simon Fraser University
 - Dr. Manon St-Germain, Centre hospitalier universitaire Sainte-Justine
 - * Dr. Ian Welch, University of Western Ontario
 - Dr. Colette Wheler, University of Saskatchewan

APPENDIX III

CONTRIBUTORS TO THE GUIDELINES PROGRAM

Subcommittee on biotechnology

Dr. Bruce Murphy, Université de Montréal, Faculté de médecine vétérinaire (Chair)
Dr. Garth Fletcher, Memorial University of Newfoundland
Dr. Patricia Harper, Hospital for Sick Children
Dr. Eike-Henner Kluge, University of Victoria
Dr. Harpreet Kochhar, Canadian Food Inspection Agency, Ottawa
Dr. Pascal Vachon, Université de Montréal, Faculté de médecine vétérinaire
Dr. Barbara Vanderhyden, Ottawa Regional Cancer Centre
Dr. David Wooldridge, Canadian Federation of Humane Societies, BC
Dr. Sui-Pok Yee, London Regional Cancer Centre

Subcommittee on farm animals

Dr. Tarjei Tennessen, Nova Scotia Agricultural College (Chair)
Dr. Laurie Connor, University of Manitoba
Dr. Anne Marie de Passillé, Agriculture and Agri-Food Canada, Agassiz
Dr. Ian Duncan, University of Guelph
Dr. John Feddes, University of Alberta
Dr. Marilyn Keaney, University of Ottawa
Dr. Harpreet Kochhar, Canadian Food Inspection Agency, Ottawa
Dr. Alex Livingston, University of Saskatchewan
Ms. Shelagh MacDonald, Canadian Federation of Humane Societies, Ottawa
Dr. Jeff Rushen, Agriculture and Agri-Food Canada, Agassiz
Dr. Fred Silversides, Agriculture and Agri-Food Canada, Agassiz
Dr. Kim Stanford, Alberta Agriculture Food and Rural Development

Subcommittee on marine mammals

Dr. Jon Lien, Memorial University of Newfoundland (Chair)
Dr. Pierre-Yves Daoust, University of Prince Edward Island
Mr. John Ford, Fisheries and Oceans Canada, Nanaimo
Dr. Clément Lanthier, Calgary Zoo
Dr. Kay Mehren, Veterinarian Emeritus, Toronto Zoo
Mr. Neal Overstrom, Mystic Aquarium/Institute for Exploration, Connecticut
Ms. Tracy Stewart, Marineland of Canada Inc., Niagara Falls
Mr. Clint Wright, Vancouver Aquarium



Subcommittee on fish

- Dr. Chris Harvey-Clark, University of British Columbia (Chair)
Mr. John Batt, Dalhousie University
Dr. Kristina Bennett-Steward, Bioniche Animal Health, Belleville
Mr. Cyr Couturier, Marine Institute of Memorial University of Newfoundland
Dr. Larry Hammell, University of Prince Edward Island
Dr. George Iwama, Acadia University
Mr. Henrik Kreiberg, Fisheries and Oceans Canada, Nanaimo
Dr. Santosh Lall, National Research Council of Canada, Institute for Marine Biosciences, Halifax
Dr. Matt Litvak, University of New Brunswick, Saint John
Dr. Don Rainnie, Atlantic Fish Health Inc., Charlottetown
Dr. Don Stevens, University of Guelph
Dr. Jim Wright, IWK Grace Health Centre, Halifax

Subcommittee on laboratory animal procedures

- Dr. Andrew Fletch, McMaster University
Dr. Jim Love, University of British Columbia
Ms. Lee Niel, University of British Columbia
Dr. Ernest Olfert, University of Saskatchewan

Subcommittee on procurement of animals used in science

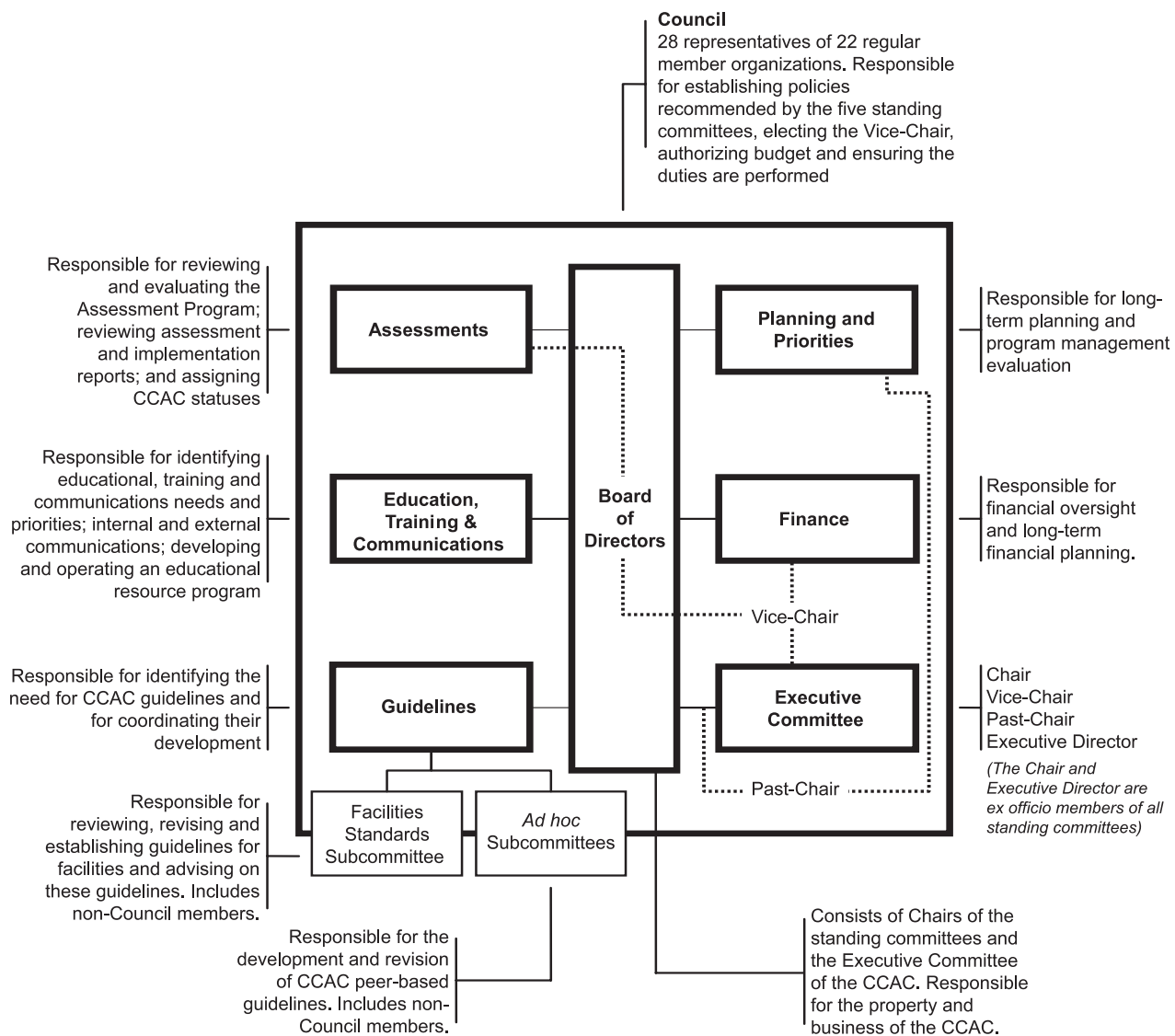
- Dr. Michael Baar, Canadian Council on Animal Care (Chair)
Dr. Denna Benn, University of Guelph
Dr. Sally Cleland, Canadian Association for Laboratory Animal Medicine, Regina
Dr. Susan Kilborn, Veterinary Internal Medicine Service, Ottawa
Dr. John Kingma Jr., Université Laval
Ms. Joy Ripley, Canadian Federation of Humane Societies, Calgary

Subcommittee on testing

- Dr. Chris Banks, Charles River Laboratories Preclinical Services Montréal Inc.
Dr. David Blakey, Health Canada, Ottawa
Dr. Guy Chamberland, CATO Research Canada, Montreal
Dr. Ronald Charbonneau, Centre Hospitalier de l'Université Laval
Dr. Andrew Fletch, McMaster University
Dr. Eileen Macallum, sanofi pasteur, Toronto
Dr. Pierre Tellier, Charles River Laboratories Preclinical Services Montréal Inc.
Dr. Patricia Turner, University of Guelph

APPENDIX IV

CCAC ORGANIZATIONAL CHART





APPENDIX V

MEMBERS OF THE CCAC STANDING COMMITTEES

Planning and Priorities Committee

Dr. Joseph Davison	(Chair)
Mr. Lawrence Aronovitch	(Apr. 2005 - Aug. 2005)
Dr. John Dingwall	(Sept. 2005 - Mar. 2006)
Dr. Kristina Bennett-Steward	
Dr. David Wooldridge	
Dr. John Kingma, Jr.	
Dr. Jim Thornhill	
Dr. Andrew Tasker	(voting <i>ex officio</i>)
Dr. Clément Gauthier	(<i>ex officio</i>)

Finance Committee

Ms. Patricia Mortimer	(Chair)
Dr. Adolfo de Bold	
Dr. Alex Livingston	(voting <i>ex officio</i>)
Dr. Andrew Tasker	(voting <i>ex officio</i>)
Dr. Clément Gauthier	(<i>ex officio</i>)

Assessment Committee

Dr. Mark Evered	(Chair)
Dr. Luc Chouinard	
Dr. Chantal Lambert	
Dr. Eileen Macallum	
Ms. Evelina Smith	
Dr. Diane Frank	
Dr. Andrew Tasker	(voting <i>ex officio</i>)
Dr. Alex Livingston	(voting <i>ex officio</i>)
Dr. Gilles Demers	(<i>ex officio</i>)
Dr. Michael Baar	(<i>ex officio</i>)
Ms. Marie Bédard	(<i>ex officio</i>)
Dr. Clément Gauthier	(<i>ex officio</i>)

Education, Training and Communications Committee

Dr. Patricia Harper	(Chair)
Mr. Stephen Bjarnason	
Dr. Elliot Scott	
Dr. Sara Iverson	
Dr. Marilyn Keaney	
Dr. Thomas Moon	
Dr. Andrew Tasker	(voting <i>ex officio</i>)
Dr. Clément Gauthier	(<i>ex officio</i>)

Guidelines Committee

Mr. Henrik Kreiberg	(Chair)
Dr. David Blakey	
Dr. Douglas Crawford	
Dr. Dirk Dekens	
Dr. Valerie Stevens	
Dr. Tarjei Tennessen	
Dr. Eike-Henner Kluge	
Mr. Keith Marshall	
Dr. Andrew Tasker	(voting <i>ex officio</i>)
Dr. Gilly Griffin	(<i>ex officio</i>)
Dr. Clément Gauthier	(<i>ex officio</i>)

Facilities Standards Subcommittee

Mr. Henrik Kreiberg	(Chair)
Mr. Richard Bélanger	
Dr. Donald McKay	
Dr. David Neil	
Dr. Andrew Tasker	(voting <i>ex officio</i>)
Dr. Clément Gauthier	(<i>ex officio</i>)
An Assessment Director	(<i>ex officio</i>)



Board of Directors

Dr. Andrew Tasker	Chair of Council
Dr. Alex Livingston	Vice-Chair of Council
Dr. Joseph Davison	Past Chair of Council
	Chair – Planning and Priorities Committee
Dr. Mark Evered	Chair – Assessment Committee
Dr. Patricia Harper	Chair – Education, Training and Communications Committee
Dr. John Kingma, Jr.	Chair – Guidelines Committee
Ms. Patricia Mortimer	Chair – Finance Committee
Dr. Clément Gauthier	<i>(ex officio)</i>



APPENDIX VI

CCAC MEMBER ORGANIZATIONS AND REPRESENTATIVES

Agriculture and Agri Food Canada (AAFC)	Dr. Valerie Stevens
Association of Canadian Faculties of Dentistry (ACFD)	Dr. Elliott Scott
Association of Faculties of Medical Colleges (AFMC)	Dr. Jim Thornhill
Association of Universities and Colleges of Canada (AUCC)	Mr. Lawrence Aronovitch (April 2005 – August 2005)
	Dr. John Dingwall (September 2005 – March 2006)
	Dr. Mark Evered
	Dr. Chantal Lambert
	Dr. Andrew Tasker
	Dr. Luc Chouinard
Canada's Research Based Pharmaceutical Companies (R&D)	Dr. Kristina Bennett-Steward
Canadian Animal Health Institute (CAHI)*	Dr. Marilyn Keaney
Canadian Association for Laboratory Animal Medicine (CALAM)	Dr. Eileen Macallum
Canadian Association for Laboratory Animal Science (CALAS)	Dr. Eike-Henner Kluge
Canadian Bioethics Society (CBS)	Dr. Douglas Crawford
Canadian Council of Departments of Psychology (CCDP)	Dr. Dirk Dekens
Canadian Federation of Humane Societies (CFHS)	Ms. Evelina Smith
	Dr. David Wooldridge
Canadian Institutes of Health Research (CIHR)	Dr. Joseph Davison
Canadian Society of Zoologists (CSZ)	Dr. Tom Moon
Canadian Veterinary Medical Association (CVMA)*	Dr. Diane Frank
Canadian Faculties of Agriculture and Veterinary Medicine (CFAVM)	Dr. Tarjei Tennessen
	Dr. Alex Livingston
Department of National Defence (DND)	Mr. Stephen Bjarnason
Environment Canada (EC)	Mr. Keith Marshall
Fisheries and Oceans Canada (DFO)	Mr. Henrik Kreiberg
Health Canada (HCan)	Dr. David Blakey
Heart and Stroke Foundation of Canada (HSFC)	Dr. John Kingma, Jr.
National Cancer Institute of Canada (NCIC)	Dr. Patricia Harper
National Research Council (NRC)	Ms. Patricia Mortimer
Natural Sciences and Engineering Research Council (NSERC)	Dr. Sara Iverson
Royal Society of Canada (RSC)	Dr. Adolfo de Bold

* Identifies limited term member

APPENDIX VII

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