

1 July 2005 to 30 June 2006

University of Alberta Museums Annual Report

Including the report of the
University of Alberta Museums Policy and Planning Committee

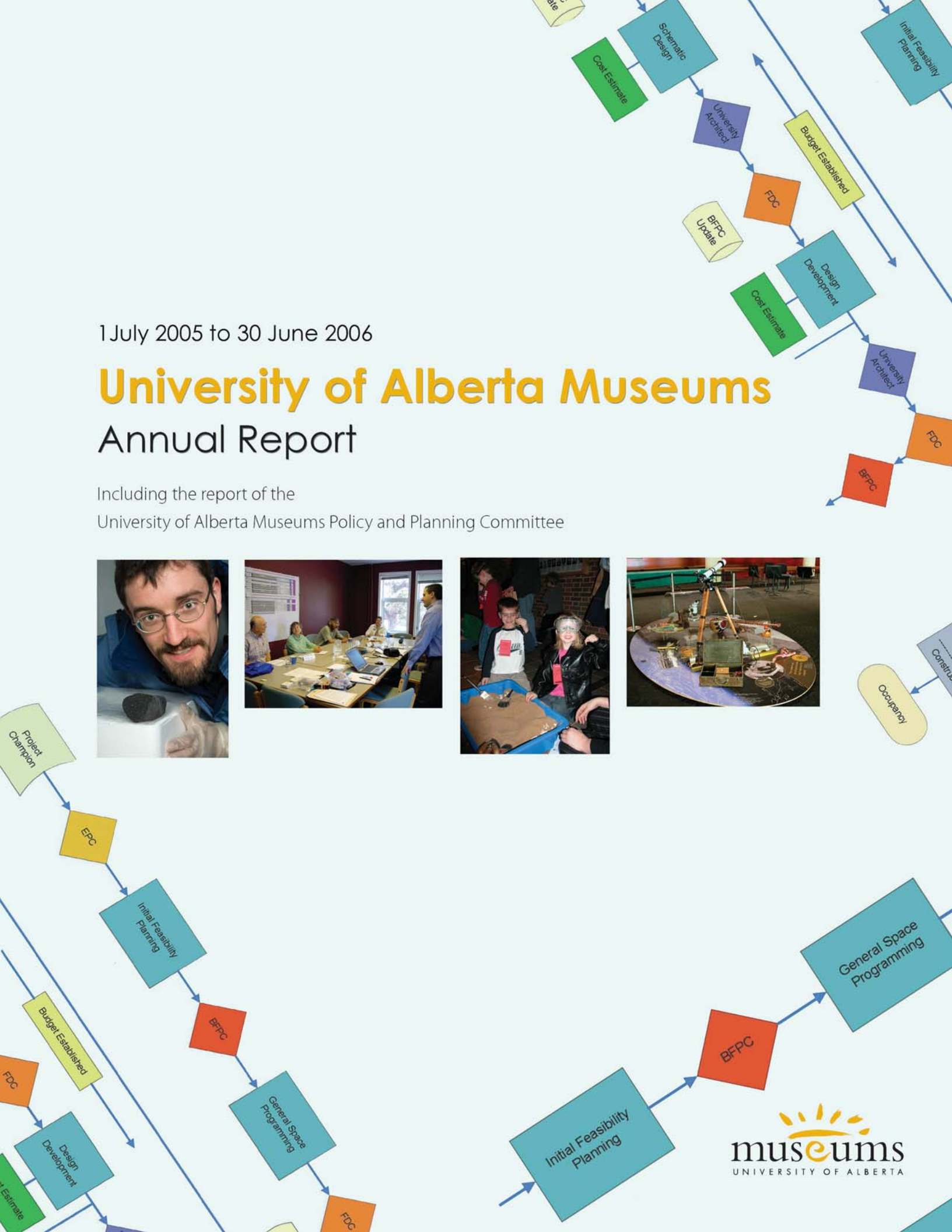


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The 2005-2006 academic year signalled a tremendous transition for the University of Alberta Museums. In addition to facilitating many day-to-day collections needs and initiatives, the University of Alberta Museums has become increasingly aware of deficiencies in facilities and resources while initiating a bold, new planning phase.

This planning and rejuvenation phase charts the course of the University of Alberta Museums towards the goal of a new facility, and has been at the core of four major activities that collectively identify, address and capitalize on challenges and opportunities facing the University of Alberta Museums:

- ▶ The University of Alberta Museums General Programme Plan -- Phase I looked at the individual space needs of all collections as they exist now and as they are projected to be in the year 2010. Phase II invited curators to consider how they would collaborate with colleagues, which resulted in an exciting vision for a Curatorial Research Facility. Each phase of this process has been approved by the University, and Provost Dr. Carl Amrhein has indicated that the Curatorial Research Facility is now one of the University's top priorities. In the coming year, Museums and Collections Services will develop a Business Plan and plan a corresponding academic program for the new facility.
- ▶ Category 'A' Designation – the report from the Canadian Cultural Property Export Review Board (CCPERB) indicated that the University of Alberta Museums are deficient in many areas as a Category 'A' institution. However, the University's Category 'A' designation was not rescinded owing to several initiatives already underway to address these deficiencies.
- ▶ Mactaggart Art Collection Planning – progress was made to catalogue, accession, document and photograph the collection, while a team planned an interim space that will provide scholars, visitors and classes with access to the Collection when it opens in 2007.
- ▶ University of Alberta Museums and Collections Policy – MACS led a review of the policy and its associated procedures to ensure requirements of UAPPOL are met. The revised policy addresses concerns around the growth of collections on campus and the lack of compliance with policy by individuals and units not authorized to collect.

MACS has also coordinated many new initiatives emerging from individual collections and their respective departments. It remains an ongoing difficulty for MACS to balance "big picture" planning and activities with the growth in the ongoing daily needs of individual museum collections.

The University of Alberta Museums Policy and Planning Committee met formally on three occasions: Thursday 24 November 2005, Tuesday 14 February 2006, and Wednesday 15 March 2006. Several issues identified in the last report were resolved or continued as planned, and two new issues were brought forward. Two items were deferred: discussion of curatorial duties as they relate to Faculty evaluations, and a review of the University of Alberta Museums' Strategic Plan and annual report format pending completion of the University's academic plan, Dare to Deliver.

Activity One: University of Alberta Museums General Programme Phase I *(continued from 2004-05)*

HOK Urbana Architects of Toronto completed Phase I of the General Programme, documenting the individual space needs of the University's 35 museums and collections. The report indicated that:

- the University's museums and collections currently occupy 75,000 ft² (7,000 m²);
- current needs (2005) are 340,000 ft² (31,609 m²) to fully implement programs;
- projected needs to 2010 are 635,000 ft² (58,829 m²) to accommodate program growth;
- collections occupy spaces that do not meet Cultural Property Board criteria and museum standards;
- collections occupy spaces that are scheduled for relocation or demolition;
- collections occupy spaces that are incompatible with adjacent building functions;
- upgrading/retrofitting each existing museum or collection space would be financially prohibitive and impractical, if not impossible to do.

The report was approved by the Facilities Development Committee on 17 February 2006 with the recommendation that a Phase II General Programme be undertaken to examine common needs of collections and determine synergies and space sharing with the expectation that space needs would be reduced.

Activity Two: University of Alberta Museums General Programme Phase II

(new issue)

Dr. Carl Amrhein launched the second phase of the planning process by addressing a meeting of curators, professors and staff. He explained that a new facility was one of the top priorities on the University's capital project list with the following vision that would:

- ▶ consider accommodating all collections and their associated research and teaching functions;
- ▶ include the museum collections, classrooms and research labs, with strong links to departments to satisfy academic mandates;
- ▶ include a range of technologies and lab facilities to accommodate activities such as digitization and conservation;
- ▶ need to be situated on the north campus.

HOK Urbana Architects facilitated a series of meetings with curators who, with few exceptions, supported the idea of a single Curatorial Research Facility citing that collaboration and centralized functions would:

- ▶ promote cross-disciplinary interaction;
- ▶ inspire the creation of new programs;
- ▶ develop and explore new technologies;
- ▶ significantly improve storage and access;
- ▶ improve collections management and the receipting/receiving of collections;
- ▶ improve digitization capabilities through cooperative acquisition and use of state-of-the-art resources;
- ▶ provide access to experimental exhibit and exhibit preparation spaces for academic, research and life-long learning programs;
- ▶ reduce the projected space need for 2010 to a manageable size of 350,000 net square feet (32,431 m²).

The Phase II General Programme Plan was presented to FDC on 16 June 2006 and was approved with a recommendation to proceed to the Business Plan process in which academic programs, operational plans and associated costs would be identified.

Activity Three: Review of Category A Designation

(continued from 2004-05)

As mentioned in previous reports, the University of Alberta Museums' Category A status conferred by the Department of Canadian Heritage was being reviewed as part of a nation-wide review of all such designated institutions. Staff from the Canadian Cultural Property Export Review Board (CCPERB) Secretariat completed a site visit the week of 24 October 2005. Their preliminary report indicated that they would not rescind the University's Category A designation subject to the University submitting a plan to address several issues. The Policy and Planning Committee agreed with the following solutions to these concerns:

Issue One: Facilities

- Facilities in all areas are substandard, and our inability to address problems such as environmental controls has been labeled "paramount".
- The Print Study Centre was cited as good model of facilities that universities in general could strive towards and that the UofA is in a position to be leaders in this area.
- The HOK Phase II Programme Plan was forwarded to the CCPERB Secretariat and was acknowledged as progress towards a solution to facility problems.
- The development of space in the Telus Centre to house the Mactaggart Art Collection is an acceptable interim storage solution for new certified cultural property as appropriate.

Issue Two: Policy and Procedures

- Though policies and procedures exist (and are currently being revised into UAPPOL format) compliance across campus is not consistent.
- Revised policy and procedure drafts were vetted by the CCPERB Secretariat.
- Training and communications strategies would be developed to ensure all campus members are informed, once policy and procedures are complete.

- ▶ Compliance with policies and procedures at the unit level requires a dedicated commitment of resources from the University, which in the longer term would be addressed through the Curatorial Research Facility.

Issue Three: Contravention of the Income Tax Act

- ▶ The University gave away certified cultural property (Ordovician Fossils) prior to the approval of the application for certification, and in violation of the 10 year retention requirement which would result in the University being fined.
- ▶ The application for certification was not reviewed, approved or submitted by MACS as per University Policy, and the committee felt strongly that compliance, and mechanisms for enforcement of policy, need to be further investigated.
- ▶ CCPERB approved the application in error, and the University's position on this situation would be summarized in writing to the Secretariat.

Activity Four: UofA Museums Policy

(continued from 2004-05)

The University of Alberta Museums and Collections Policy was vetted by several offices/bodies on- and off-campus necessitating several revisions which were each reviewed by the Policy and Planning Committee. Two key issues arose:

- ▶ Unauthorized collecting of museum objects and collections is prevalent across campus and difficult to monitor. As one main solution, units must register with Museums and Collections Services to be authorized to acquire museum objects and operate related facilities. Registration requires a commitment from the unit to comply with policy, provide appropriate resources (human, financial, space), and develop written management strategies. All other individuals and units are not authorized to negotiate or make decisions regarding the acquisition of museum objects and collections, and must contact Museums and Collections Services for direction.
- ▶ Though compliance with University policy is required of all members of the campus community, the Committee was concerned that there be accountability for anyone or any unit who is not in compliance, as non-compliance can result in legislative violation, loss of rights and privileges with funding bodies, or substantial fines. Further investigation of non-compliance clauses will be undertaken with the UAPPOL Office and University legal counsel.

Activity Five: Requests to Deaccession

(new issue)

On behalf of the Board of Governors, the Provost and Vice-President (Academic) Dr. Carl Amrhein approved the Committee's recommendation to deaccession:

- ▶ One sample of the Allende Meteorite, as requested by Earth and Atmospheric Sciences. This was an unusual request as EAS wanted to sell the meteorite (one of 207 samples in the collection) to an independent company to acquire a rare sample of a meteorite from Mars. This is often the only method available to increase the scope of a collection such as this. Both Alberta Community Development and the Department of Canadian Heritage were consulted in order to arrive at a decision.

- ▶ Human remains and grave goods which were to be re-interred at the Rossdale/Epcor Site in Edmonton.

Funding Needs Adjudication

An annual activity of the Policy and Planning Committee is the adjudication of funding requests solicited from the curators of the collections. Needs are assessed based on merit and recommended for funding through several limited and/or competitive sources:

- ▶ Community Outreach Endowment Fund – a University of Alberta fund which generates approximately \$12,000 annually;
- ▶ The Friends of the University of Alberta Museums who raise funds for projects through several methods; and
- ▶ Museum and heritage grant programs such as Young Canada Works in Heritage Organizations, Alberta Museums Association, Canadian Heritage.

The following funding was requested and distributed between 1 July 2005 and 30 June 2006:

Funds requested	\$124,440
Funds available	\$12,000
Friends donation	\$30,606
Outstanding requests	\$81,834

Section One

Museums and Collections Services coordinates and/or facilitates campus-wide applications to several funding agencies. The following summarizes funding acquired for collections projects. Complete information regarding funding acquired directly by individual collections is not available. For funding details see Appendix Four, Section One.

University of Alberta Sources (\$57,606)

\$45,606	Friends of the University of Alberta Museums
\$12,000	Community Outreach Endowment Fund

Government of Alberta (\$17,160)

\$17,160	Alberta Museums Association
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Government of Canada (\$526,659)

\$8,892	Young Canada Works (Canadian Heritage)
\$177,767	Virtual Museum of Canada (Canadian Heritage)
\$340,000	Movable Cultural Property Grant (Canadian Heritage)

Total \$601,425

Section Two

Curators or other contacts are designated from among the academic staff in each faculty or department to undertake duties and responsibilities related to museums and collections. Each is actively involved in research, much of which relates directly or indirectly to the collections resources. The following summarizes research grants received by faculty who are designated curators or contacts. These figures reflect information provided by the Research Services Office for grants received between 1 April 2005 and 31 March 2006. For funding details, see Appendix Four, Section Two.

University of Alberta Sources (\$23,082)

\$4,500 University Conference Fund
\$18,582 Other University of Alberta Research Funding

Government of Alberta (\$220,000)

\$218,500 Alberta Municipal Affairs
\$1,500 Alberta Community Development

Government of Canada (\$486,119)

\$57,000 National Research Council Canada
\$328,020 Natural Sciences Engineering Research Council
\$46,810 Parks Canada National Office
\$54,289 Social Sciences and Humanities Research Council

Other (\$606,296)

\$124,900 Government of the Northwest Territories
\$40,000 University of Windsor
\$39,000 Alberta Conservation Association
\$17,300 University of Laval
\$20,000 World Wildlife Fund Canada
\$15,000 Wenner-Gren Foundation for Anthropology
\$250,000 United States Department of Interior MMS
\$6,000 EPCOR
\$54,096 Cumulative Environmental Management Association
\$10,000 MacDonald, Dettwiler & Assoc. Inc. (MD Robotics)
\$25,000 Canada Mortgage and Housing Corp.
\$5,000 Central Research Fund

Total \$1,335,497



New exhibits in the Mineralogy and Petrology Museum, Department of Earth and Atmospheric Sciences: *Diamonds in the Rough* (foreground) and *Meteorites* (background).

The University of Alberta Museums is a collaborative organizational model that includes Museums and Collections Services (MACS), the Policy and Planning Committee, the Curators' Committee (representing the University's 35 distinct collections), and the Friends of the University of Alberta Museums (FUAM).

The University of Alberta Museums is guided by a common strategic direction that helps to frame decisions regarding collecting policies, research and teaching goals, and engagement with the University's many communities. This report contains highlights of achievements and activities of the University of Alberta Museums during the 2005-2006 reporting year.

4.1 Optimal Use of Collections.

The principal purpose of the 35 collections is to support the research, teaching and community engagement goals of the University of Alberta.

Use of Collections by Instructors, Researchers and Students

New Exhibits in the Mineralogy & Petrology Museum

The Department of Earth and Atmospheric Sciences and Museums and Collections Services launched two new exhibits to provide faculty, students, and the broader community with access to specimens and collections-based research.

- ***Meteorites*** opened on 15 November 2005. The exhibit features a representative selection of 14 specimens from the University of Alberta Meteorite Collection, the second largest collection in Canada, and interpretive panels examining the formation and journey of meteorites.
- ***Diamonds in the Rough*** opened on 27 January 2006. The exhibit features more than 60 uncut diamonds on permanent loan from the Diamond Trading Company in London as well as interpretive panels examining the importance of diamond research to geology. The research focus on uncut (or 'rough') diamonds makes this exhibit the only one of its kind.



The Print Study Centre, a state-of-the-art museum facility managed by Museums and Collections Services, facilitates extensive interdisciplinary programming.

Access to the University of Alberta Museums

Several museums and collections of the University of Alberta Museums provide on- and off-campus communities with access to their collections and research. Access highlights include:

Archaeology and Zooarchaeology Collections:

- Two department exhibitions and two temporary displays for University Preview Days and the Archaeological Society of Alberta.

- Use by 18 University of Alberta classes (1244 students and staff) including classes from the Departments of Anthropology, Educational Policy Studies, History and Classics, the Faculty of Native Studies, and Campus Saint-Jean.

- Use by four non-University classes and groups (466 students and visitors) including Brandon University, University of Lethbridge, and Salisbury High School.

- Nine individual researchers including anthropology graduate students and faculty, students from other universities, independent researchers, and cultural resource management firms.

Mineralogy & Petrology Museum and the Paleontology Museum:

- Use by University of Alberta classes in mineralogy, ore geology, introductory geology, renewable resources (506 students and staff).

- A paleontology symposium featuring 61 graduate students, guest speakers, and other specialists in the field.

- Visits from non-University groups that include the John Janzen Nature Centre, Discover E camps, TELUS World of Science, Glenrose Hospital, Norquest College, Campus Ambassadors, and several schools (865 students, staff and visitors).

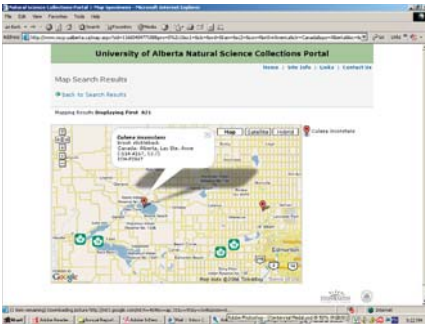
University of Alberta Art Collection through the Print Study Centre:

- 29 University of Alberta classes and visitors (516 students and staff), including classes from the Departments of Art and Design, East Asian Studies and Human Ecology.

- 10 non-University Classes and groups (207 students, staff and visitors), including Alberta College of Art and Design, Alberta International, Canadian Mental Health Association, Grant McEwan College, Grand Prairie Regional College, Keyano College, Metro Community College, and the Minerva Group.

University of Alberta Museum of Zoology:

- ▶ Approximately 45 University of Alberta classes (1,560 students and staff), including classes from the Departments of Anthropology, Biological Sciences, Renewable Resources, and Art and Design.
- ▶ Three non-University classes and groups (approximately 300 students, staff and visitors), including the Wildlife Society, NAIT, Discover E camps, and miscellaneous researchers and community outreach inquiries.



Accessing specimen information through the University of Alberta Natural Science Collections Web Portal.

Developments to Digital Access of the Collections

The ultimate goal set by the University of Alberta Museums' Digitization Committee is to have all collections digitized and accessible through MIMSY XG and the web. To that end, MACS is coordinating phased-in progress in response to limitations of human and financial resources. Recent accomplishments include:

- ▶ Collections databases on the SunSITE server were consolidated from 16 to 8 in order to improve the response time for data retrieval from the remaining databases.
- ▶ In addition to ongoing improvements to browse and search features, upgrades to web interfaces include the introduction of Google maps to the E.H. Strickland Entomology Collection interface, a feature that locates on a map where specimens were collected around the world.
- ▶ Phase One of the University of Alberta Natural Science Collections Web Portal is now complete. Funding has been secured for Phase Two of the Portal, and this phase will provide access to three more University of Alberta Museum of Zoology Collections by April 2007. The goal is to provide web portal access to a total of 15 natural science collections.

Publications and Presentations Involving Collections

National Presentation on Cultural Property Expertise

- ▶ Janine Andrews, Executive Director of Museums and Collections Services, was invited to present at the Canadian Museums Association conference from 2 to 6 May 2006, in Saint John, New Brunswick.
- ▶ Andrews participated in a panel presentation titled "10 Ways to Sustain Donations of Cultural Property" drawing on the University of Alberta Museums' expertise in acquiring and managing cultural property to do so.



Phoenix robe of the Dowager Empress Cixi (Qing 19th century). Mactaggart Art Collection, Museums and Collections Services, University of Alberta Museums.



Detail of a scroll box for the Southern Inspection Tour scroll of the Emperor Qianlong, featuring the imperial symbol of a five-clawed dragon. (Qing 18th century.) Mactaggart Art Collection, Museums and Collections Services, University of Alberta Museums.

Back to the Future: Professors Emeriti Discover the University of Alberta Museums

- On 23 November 2005, Janine Andrews was invited to introduce the Association of Professors Emeritus to the University of Alberta Museums.
- Andrews' presentation, "In Search of the University of Alberta Museum: The U of A Museums in 100 Years", discussed the roles of the University of Alberta Museums in providing collections for teaching and research.
- The talk provided an opportunity to address potential ambassadors about the University of Alberta Museums and to emphasize the importance of collecting activities to teaching and research activities.

New Research Featuring An Established Collection

- Dr. Cynthia Paszkowski, Curator with the University of Alberta Museum of Zoology (UAMZ), co-authored an article on comparative research involving toad specimens collected in the field with those in the UAMZ.
- "Life-History Variation Among Populations of Canadian Toads in Alberta, Canada" was published in the *Canadian Journal of Zoology* and demonstrates the ongoing viability of past collecting activities for current teaching and research.

Mactaggart Art Collection Gathers International Attention

- The announcement of the Mactaggart Art Collection acquisition garnered world-wide media attention, including several articles in publications for international specialists in Asian art and textiles.
- Two pieces appeared in *Orientations*: "A Collection of Chinese Paintings Comes to Canada" by Maxwell Hearn and "An Evening with Sandy and Cécile Mactaggart, Discussing Their Chinese Collection" by John Vollmer.
- "The Phoenix and the Dragon" by Gary Dickinson and Linda Wigglesworth appeared in *Hali*.

Use of Collections in Undergraduate and Graduate Teaching

Student Placements with Museums and Collections Services

Whenever possible, Museums and Collections Services (MACS) facilitates practicum placements in order to provide students with professional development and on-the-job learning opportunities related to diverse aspects of the museum field. During the reporting period, MACS provided the following three placement opportunities:



University of Alberta Museums exhibitions such as *Grade 'A' Certified fresh* are able to provide professional, on-the-job learning experiences for students.

- ▶ A student in the Master of Library and Information Studies program completed a project devoted to enhancing and enriching the University of Alberta Art Collection database.
- ▶ A student from the Bachelor of Design program specializing in Visual Communications worked on the visual design needs for the University of Alberta Museums exhibition, *Grade 'A' Certified fresh*.
- ▶ A Graduate Research Assistant (GRA) from the Department of Anthropology completed a comprehensive literature review on repatriation/return of cultural property. The GRA also reviewed current legislation and surveyed policies and procedures of all Canadian museums and universities in order to recommend any revisions to the University of Alberta Museums Return of Cultural Property policy and procedure.

Outstanding Facilities

Mactaggart Art Collection Space

- ▶ Museums and Collections Services worked with the Office of the University of Alberta Architect to design facilities to house the Mactaggart Art Collection.
- ▶ The goal of the space plan is to ensure security and care of the collection while providing optimal access for scholars, students, classes and visitors.
- ▶ Following the completion of the design phase, construction began on the new facility that is scheduled to open in 2007.

4.2 Contributions to the University's Reputation.

The University of Alberta Museums contributes to the University's profile through attracting inquiries about research and collections; through ensuring standardization, consistency and compliance of key collections processes; and by providing a leading practice model for University museums.

Leading Practice Model for University Museums

Edmonton Historical Board Recognition Award

- ▶ On 3 November 2005, the University of Alberta Museums received the Edmonton Historical Board's Recognition Award.

- D** The Award recognized the University of Alberta Museums for contributions over the past century to the preservation of Edmonton's history; for providing ready access to rare items in the collections; and for community engagement through exhibitions, lectures, walking tours, educational programs and virtual exhibitions.

Reburial Ceremony at Rossdale Flats/Fort Edmonton Cemetery

- D** The City of Edmonton led a partnership of many stakeholders to re-inter the partial remains and grave goods from the Rossdale flats area, some of which were held by the University of Alberta since a rescue excavation in the 1960s.

- D** As a member of the stakeholder group that included the City of Edmonton, Alberta Community Development, the Office of the Chief Medical Examiner, and members of the community, the University of Alberta took part in the re-interment.

- D** The stakeholder group re-interred the remains on 28 August 2005, and the extensive process leading up to this resolution helped shape and hone the University of Alberta Museums' Return of Cultural Property policy to ensure best practices are followed, particularly in response to sensitive cases.



A seventeenth-century Flemish tapestry donated to the Clothing and Textiles Collection, Department of Human Ecology, and certified as cultural property.

4.3 The Asset Value of the Collections.

The University of Alberta Museums works to develop and protect the asset value of its artifacts, specimens and collections through securing grants for research and collections development; through the development and management of collections; and through the attraction and retention of outstanding curators, researchers and staff.

Development of Collections

Art, artifacts and specimens are collected in accordance with the campus-wide policy and procedure framework for collecting managed by Museums and Collections Services as well as the academic priorities established by individual departments housing collections. What follows are highlights of museum objects acquired during the last reporting period, including those objects certified by the Canadian Cultural Property Export Review Board as being of "outstanding significance and national importance".



A 153g piece of the Tagish Lake Meteorite kept in a below-freezing environment. University of Alberta Meteorite Collection, Department of Earth and Atmospheric Sciences.

Image courtesy of Michael Holly, Creative Services.



Anges Nanogak, *Weasel at the Nest*, 1970. Stonecut and stencil. Gift of Dr. Charles Moore. University of Alberta Art Collection, Museums and Collections Services.

Clothing and Textiles Collection

- ▶ A seventeenth-century Flemish tapestry donated to the Clothing and Textiles Collection was certified as cultural property.
- ▶ The tapestry represents a period and technique not previously represented among the 18,000 artifacts already in the Collection. This outstanding textile will be used for teaching in numerous courses offered by the Department of Human Ecology.

Paleontology Collections

- ▶ Invertebrate Paleontology Collections acquired three well-preserved new species of small marine arthropods from the Cretaceous age.
- ▶ The specimens were collected by Dr. Brian Chatterton from a region in southern Morocco that also contains a diverse range of other paleontological specimens.
- ▶ These acquisitions triple the known diversity of African Mesozoic representatives of *Isopoda*, and substantially increase global knowledge of these small animals.

Meteorite Collection

- ▶ On 21 April 2006 the University of Alberta Museums announced the acquisition of the Tagish Lake Meteorite, a “pristine” meteorite that is the only one of its kind known to exist on Earth.
- ▶ Museums and Collections Services and the Department of Earth and Atmospheric Sciences led a consortium of partners (the Department of Canadian Heritage, the Royal Ontario Museum, Natural Resources Canada, and the Canadian Space Agency) in acquiring the specimen for mutual research and heritage interests.

- ▶ The acquisition was made possible through a Movable Cultural Property Grant accorded by the Canadian Heritage Department under the terms of the Cultural Property Export and Import Act and through financial support from the partners.

University of Alberta Art Collection

The University of Alberta Art Collection (UAAC) continued to augment several key collection priorities through the acquisition of 220 objects valued at approximately \$230,000. These acquisitions include:



Janine Andrews receives an Alberta Centennial Medal from the Honourable Norman Kwong, Lieutenant Governor of Alberta.

- The Charles Moore Collection of Inuit Prints -- 43 prints by 18 Inuit artists, dating from the 1960s to the 1980s, and including work from 14 Inuit printmakers new to the University of Alberta Art Collection. Certified as cultural property and valued at \$29,000.

- 36 drawings by Blair Brennan, valued at \$11,000. Certification as cultural property pending.

- 40 contemporary and historical Japanese prints valued at \$12,000.

Grants for Research and Development

For details about grants received, please consult Appendix Four.

Outstanding Curators, Researchers, and Staff

Centennial Medal Awarded to MACS Executive Director

- On 5 December 2005, Janine Andrews, Executive Director of Museums and Collections Services, received an Alberta Centennial Medal.

- The Honourable Norman L. Kwong, Lieutenant Governor of Alberta, awarded Andrews with her Medal during a presentation at Government House in recognition of her contributions to the museums community in Alberta.

Nat Rutter Outstanding Technician Award

- Danny Shpeley, Assistant Curator with the E.H. Strickland Entomological Museum, received the Nat Rutter Outstanding Technician Award.

- Shpeley's Award recognizes the outstanding service and extraordinary support he has provided to the Department of Biological Sciences and the University of Alberta through his assistance with the Museum's teaching and research objectives.

University of Alberta Museums Volunteer Awards

- On 19 April 2006, Museums and Collections Services hosted the seventh annual University of Alberta Museums Volunteer Recognition Celebration.

- Eric Newell, Chancellor of the University of Alberta, helped present University of Alberta Museums 2006 Volunteer of the Year Awards to Peter Kirchmeir (Archaeology Collections, Department of Anthropology) and to Dr. Ronald Burwash (Mineralogy and Petrology Museum and Collections, Department of Earth and Atmospheric Sciences).



Dr. Ronald Burwash, University of Alberta Museums Volunteer of the Year Award winner, flanked by (left to right): Chancellor Eric Newell, Janine Andrews, Dr. Pat Cavell and Dr. Andrew Locock.



Dr. Christopher Herd presents his research in a public talk titled, *Secrets of Our Solar System: Exploring the Planets through the University of Alberta Meteorite Collection*

- ▶ The Award winners were among 46 volunteers from eight collections alone who volunteered 2,000 hours of their time performing a wide range of activities, that include: accessioning; labelling and cataloguing art, artifacts and specimens; conducting exhibition research and installation; completing database updates and other digitization projects; and staffing community outreach initiatives.
- ▶ University of Alberta Museums volunteers provide essential support, gain valuable work experience in a museum environment, and act as a vital link with the University's on- and off-campus communities.

4.4 Research Partnerships.

The University of Alberta Museums facilitates partnerships to stimulate collaborative research, operations and the discovery of new knowledge.

University of Alberta Meteorite Collection Research Project

Dr. Christopher Herd, Curator of the University of Alberta Meteorite Collection, coordinated several research initiatives involving the Meteorite Collection, the second largest collection of meteorites in Canada. These initiatives include:

- ▶ Dr. Herd's investigation of Martian meteorite specimens in order to further our understanding of the geology and evolution of our nearest planetary neighbour, Mars;
- ▶ Dr. Ron Cavell (Department of Chemistry) researching the distribution of trace elements in the Mayerthorpe (Alberta) iron meteorite specimen in order to understand the conditions of its formation; and
- ▶ Dr. Herd's investigation of sources of funding in order to establish an international research consortium focused on the Tagish Lake meteorite.

Laboratory for Vertebrate Paleontology

- ▶ Dr. Mark Wilson, Curator of Fossil Fishes in the Laboratory for Vertebrate Paleontology, co-led an international research team to study early vertebrate history recorded in fossils collected from the Canadian Arctic and held in the Laboratory for Vertebrate Paleontology.
- ▶ The team included international specialists Dr. Henning Blom of Uppsala, Sweden, and Dr. Tiiu Märss of Tallinn, Estonia.



The “Explore” display featured in the exhibition developed by Museums and Collections Services to commemorate the installation of Dr. Indira Samarasekera, the University of Alberta’s twelfth President.

- D This project situates the research team and the Laboratory for Vertebrate Paleontology at the forefront of new knowledge emerging from Canadian Arctic fossil deposits, and provides the foundation for further research in the field and the laboratory.

4.5 Community Engagement with Collections.

The University of Alberta Museums maintains extensive collections in order to provide primary source materials for teaching and research. Community outreach initiatives that communicate the value of collections-based research to the broader community is also integral to the objectives of the University of Alberta Museums.

Exhibition Commemorating President Samarasekera’s Installation

- D On 25 September 2005, Museums and Collections Services developed an exhibition to commemorate the installation of Dr. Indira Samarasekera, the University of Alberta’s twelfth President.

- D The exhibit offered an interpretation of “dare to discover” through depictions of teaching and research at the University as stages characterized as “Embark”, “Explore”, and “Eureka!”

- D Many of the objects featured in the exhibition were selected from collections in the University of Alberta Museums and demonstrated how collections can be incorporated in teaching, research and community outreach objectives.

The Friends of the University of Alberta Museums

- D The Friends sponsored three outreach programs and one exhibition, donated over \$30,000 for a range of collections-specific projects, and produced two issues of the Friends newsletter.

- D The Friends have also become cognizant of the changing demographic of their membership and the need to explore new methods for connecting with on- and off-campus communities.

- D The Friends Board of Directors are working with Museums and Collections Services in order to determine a rejuvenated purpose and direction for the Friends.

Grade ‘A’ Certified fresh

- D *Grade ‘A’ Certified fresh*, a University of Alberta Museums exhibition, ran from 23 June to 28 July 2006 and showcased recent acquisitions of



The University of Alberta Museums exhibition *Grade 'A' Certified fresh* in the Print Study Centre.

certified cultural property such as rare Inuit prints, exquisite textiles from the Mactaggart Art Collection, and specimens from the natural world.

- Comments recorded in evaluations include:

"Loved the diversity – a beautiful exhibition with good information about the works/artists"

"The groups of items made me want to see more of each collection"

"Excellent show – friendly staff. Exceeded my expectations in every way. Very inspirational!"

- The exhibition was an opportunity to test the suitability of the Print Study Centre as a public exhibition space. Although the exhibition was well-received, it became clear that the PSC is not an ideal location for public exhibitions.

University of Alberta Museums Community Outreach Program

The community outreach program showcases the diversity of, and new knowledge emerging from, collections-based research involving University of Alberta Museums. Museums and Collections Services partnered with the Friends of the University of Alberta Museums and specific collections and/or departments to produce these programs.

During the reporting period, outreach programs:

- involved approximately 80 volunteers and nine University curators
- attracted approximately 3,000 attendees from on- and off-campus communities
- generated an advertising value equivalency of approximately \$10,000 for news articles and listings generated by the events.

Secrets of Our Solar System

- On 17 November 2005, Dr. Christopher Herd gave a lecture titled *Secrets of Our Solar System: Exploring the Planets through the University of Alberta Meteorite Collection* to approximately 175 attendees.

- Attendees also viewed the new meteorite exhibit in the Mineralogy and Petrology Museum after the lecture.

- The lecture showcased the Meteorite Collection and Dr. Herd's research for the benefit of both specialist and general interest target audiences. As one attendee noted in an evaluation:

"Wonderful presentation by Dr. Herd – good for most age ranges..."



Young scientists making new discoveries during the University of Alberta Museums' Science Sunday. The event was produced by MACS, the Departments of Earth and Atmospheric Sciences, Anthropology, and Biological Sciences, and sponsored by the Friends of the University of Alberta Museums.

- ▶ An article in the *Edmonton Journal* that profiled Dr. Herd, his research, the new meteorite exhibit, and the lecture had a positive impact on attendance figures.

Science Sunday: Museum Science for Kids!

- ▶ The seventh annual Science Sunday, an educational outreach program for children aged five through 13, took place on 5 March 2006.

- ▶ The event provided entertaining and educational hands-on activities for over 500 Edmonton and area children and their parents. The activity stations were staffed by 83 student and Friends volunteers.

- ▶ MACS solicited detailed evaluation from attendees and volunteers. Although this well-established event continues to be well-received – as one family enthused in their evaluation: *"We'll be back next year! It was a fabulous experience and a well-organized event"* -- information from evaluations will direct the ongoing development and delivery of activities.

- ▶ As a result of extensive feedback and successful initiatives that incorporated more collections into the event's programming, MACS is exploring the potential to expand Science Sunday and offer additional programs.

The Muse Project

- ▶ The Muse Project, Museum and Collections Services' award-winning, curriculum-based program, provided programming from October 2005 to May 2006.

- ▶ The program enables teachers and students in grades four through nine to discover research at the University of Alberta Museums as it relates to four different curriculum areas in science and social studies. In total, 2,180 students from 94 Edmonton and area classes attended.

- ▶ Current resources limit the program to one education coordinator and four curriculum program areas, all of which were once again booked to full capacity. MACS continues to seek funding in order to operate the Muse Project.

- ▶ A previous grant enabled MACS to develop a proposal for the development of a new Muse Project program devoted to Japan Studies in response to a forthcoming Grade 8 Social Studies curriculum unit on Japan.

Appendix One:

Committee Membership

1.1 - Policy and Planning Committee Membership

Chair

Dr. M. Caldwell, Departments of Biological Sciences and Earth and Atmospheric Sciences, and Chair, Curators' Committee

Ex Officio (voting)

J. Andrews, Executive Director, Museums and Collections Services

J. Boberg, President, Friends of the University of Alberta Museums

Curators' Committee (elected)

Dr. C. Herd, Department of Earth and Atmospheric Sciences

Dr. A. Nahachewsky, Department of Modern Languages and Cultural Studies

Dr. C. Paszkowski, Department of Biological Sciences

Dr. H. Proctor, Department of Biological Sciences

General Faculties Council (elected)

D. Jones, Science and Technology Library

Dr. J. Shaw, Department of Chemical and Materials Engineering

Graduate Students' Association (elected)

N. Shykoluk, Department of Anthropology

Undergraduate Student Representative

A. Hibbert, Department of Anthropology

Secretary (non-voting)

F. Blondheim, Museums and Collections Services

1.2 - Return of Cultural Property Subcommittee Membership

Ex-Officio (voting)

J. Andrews, Museums and Collections Services

Dr. M. Caldwell, Chair, Policy and Planning Committee

Dr. N. Lovell, Chair, Department of Anthropology

Appointed (voting)

Dr. O. Beattie, Department of Anthropology

J. Dempsey, School of Native Studies

T. Hunter, Museums and Collections Services

Dr. R. Leblanc, Department of Anthropology

Appendix Two:

Directory of the University of Alberta Museums

Faculty of Agriculture, Forestry and Home Economics

Devonian Botanic Garden

Herbarium of Cultivated Plants

Curator: Dr. R. Belland

Department of Human Ecology

Clothing and Textiles Collection

Curator: Prof. A. Lambert

Department of Renewable Resources

Dendrology Collection

Curator: Dr. B. Dancik

Soil Science Monolith Collections

Curator: Dr. N. Juma

Wildlife Collection

Curator: Dr. L. Foote

Faculty of Arts

Department of Anthropology

Archaeology Collection

Curator: Dr. P. Willoughby

Ethnographic Collection

Curator: Dr. R. Gruhn

Fossil Hominid Cast Collection

Curator: Dr. O. Beattie

Osteology Collection

Curator: Dr. O. Beattie

Zooarchaeology Reference Collection

Curator: Dr. O. Beattie

Department of Art and Design

Division Print Collection

Curator: Prof. L. Ingram

Department of History and Classics

W.G. Hardy Collection of Ancient Near Eastern and Classical Antiquities

Curator: Dr. J. Rossiter (on leave)

Acting curator: Dr. S. Hijmans

Department of Modern Languages and Cultural Studies

Bohdan Medwidsky Ukrainian Folklore Archives

Curator: Dr. A. Nahachewsky

Department of Music

folkwaysAlive! and the Canadian Centre for Ethnomusicology

Curator: Dr. R. Qureshi

Faculty of Engineering

Engineering Collection

Curator: I. Buttar

Faculty of Medicine and Dentistry

Department of Dentistry and Oral Hygiene

Dentistry Museum Collection

Curator: Dr. G. Sperber

Department of Laboratory Medicine and Pathology

Pathology Gross Teaching Collection

Curator: Dr. D. Rayner

Museums and Collections Services

University of Alberta Art Collection

Curators: J. Corrigan (art and historical artifacts)

Dr. P. McCormack (ethnography)

Faculty of Science

Department of Biological Sciences

Cryptogamic Herbarium

Curator: Dr. C. La Farge

E.H. Strickland Entomological Museum
Curator: Dr. F. Sperling

Freshwater Invertebrate Collection
Curator: Dr. H. Proctor

Paleobotanical Collection
Curator: Dr. R. Stockey

Parasitology Collection
Curator: Dr. A. Shostak

University of Alberta Museum of Zoology
Amphibian and Reptile Collection
Curator: Dr. C. Paszkowski

University of Alberta Museum of Zoology
Ichthyology Collection
Curator: Dr. J. Nelson

University of Alberta Museum of Zoology
The Jim van Es Invertebrate and Malacology Collection
Curator: Dr. R. Palmer

University of Alberta Museum of Zoology
Mammalogy Collection
Curator: Dr. A. Derocher

University of Alberta Museum of Zoology
Ornithology Collection
Curator: Dr. C. Paszkowski

Vascular Plant Herbarium
Acting Curator: Dr. R. Stockey

Department of Biological Sciences
and the **Department of Earth and Atmospheric Sciences**
Laboratory for Vertebrate Paleontology
Curators: Dr. M. Wilson, Dr. M. Caldwell

Department of Earth and Atmospheric Sciences
Meteorite Collection
Curator: Dr. C. Herd

Mineralogy Collection

Curators: Dr. T. Chacko, Dr. C. Herd

Paleontology Collections

Curator: Dr. M. Caldwell, Dr. B Jones

Petrology Collection

Curators: Dr. T. Chacko, Dr. C. Herd

Shell Canada Drill Core Collection

Curator: Dr. A. Locock

Appendix Three:

Museums and Collections Services Staff

Janine Andrews	Executive Director
Tim Atherton	Information Management Technician <i>(contract from December 05 to August 06)</i>
Frannie Blondheim	Manager, Communication Program
Jim Corrigan	Curator, University of Alberta Art Collection
Melanie Crisfield	Information Management Technician <i>(contract from December 05 to March 06)</i>
Kim Fung	Curatorial Assistant
Victor Gatnicki	Web Applications Developer <i>(until March 06)</i>
Bernd Hildebrandt	Designer
Tom Hunter	Collections Assistant
Irene Karsten	Museums Conservator
Danielle Lemieux	Exhibit Development Assistant
Gwyneth Macpherson	Collections Management Assistant
Jonathan Meakin	Communications and Outreach Coordinator
Keri Molberg	Information Management Assistant <i>(contract from July 05 to December 05)</i>
Anita Parker	Education Program Assistant <i>(on leave)</i>
Celene Philip	Web Applications Developer
Pauline Rennick	Manager Collections/ Digitization Program
David Sulz	Education Program Assistant
Sando Thordarson	Collections Assistant <i>(contract from March 06 to August 06)</i>
Lindsay Twerdoclib	Design Assistant
Brent Wasyk	Collections Assistant <i>(contract from May 06 to June 06)</i>
Jim Whittome	Information Management Advisor

Appendix Four:

The Friends of the University of Alberta Museums

Board of Directors 2005–2006

<i>Julia Boberg</i>	President
<i>Alan Vanterpool</i>	Secretary
<i>Diana Bacon</i>	Treasurer
<i>Adrienne Boender</i>	Programs Committee Chair
<i>Jean Mucha</i>	Membership Committee Chair
<i>Muriel Nelson</i>	Newsletter Committee Chair
<i>Halfdan (Bud) Baadsgaard</i>	Director-at-Large
<i>Tom Kieren</i>	Director-at-Large
<i>Tovah Yedlin</i>	Director-at-Large
<i>Caitlin Wells</i>	Director-at-Large
<i>Donna Zuk</i>	Director-at-Large



The 2005-2006 Board of Directors of the Friends of the University of Alberta Museums. Standing: Adrienne Boender, Tovah Yedlin, Diana Bacon, Muriel Nelson, Jean Mucha, Alan Vanterpool, Bud Baadsgaard. Kneeling: Donna Zuk, Julia Boberg, Caitlin Wells. Absent: Tom Kieren.

Appendix Five:

Detailed Funding Report

Section One

The following information provides details of funding acquired by Museums and Collections Services for museum and collection projects between 1 July 2005 and 30 June 2006.

University of Alberta Sources

The Friends of the University of Alberta Museums (\$45,606)

\$5,000 Anthropology (Ethnographic Collections)
Phase two of exhibit cases upgrade

\$2,486 Anthropology (Archaeology Collection)
Digitization project

\$940 Anthropology (Fossil Hominid Collection)
Purchase of four casts

\$2,000 Biological Sciences (E.H. Strickland Entomological Museum)
Purchase of computer and monitor for cataloguing and documenting the collection

\$840 Biological Sciences (Vascular Plant Herbarium)
Purchase of herbarium reference books

\$2,000 Dentistry and Medicine (Dentistry Museum Collection)
History of dentistry in Alberta exhibit panels

\$3,700 Earth and Atmospheric Sciences (Meteorite Collection)
Frozen storage unit for the Tagish Lake meteorite

\$2,000 Human Ecology (Clothing and Textiles Collection)
Hire staff for digitization of artifacts

\$5,240 Music (Centre for Ethnomusicology)
Purchase of display case and updated displays; contract instrument maker from Kabul; hire student to work part-time on catalogue and database of sound recordings

\$6,400 Museums and Collections Services
(University of Alberta Art Collection)

Develop exhibition of Japanese prints, including hiring staff, purchasing materials, and developing promotional information

\$5,000 Museums and Collections Services (all collections)

Salary support for the Education Program Assistant to deliver the Muse Project as well as for associated supplies for activities

\$5,000 Museums and Collections Services (all collections)

Support for annual University of Alberta Museums Community Outreach Program

\$5,000 Museums and Collections Services (all collections)

Hire information Management Assistant for Phase II of the development of a science collections web portal

Community Outreach Endowment Fund (\$11,948)

\$1,138 Anthropology (Archeology Collection)

Salary support for data entry

\$999 Anthropology (Zooarchaeology Collection)

Salary support for accessioning, cataloguing and labeling

\$1,884 Anthropology (Zooarchaeology Collection)

Salary support for database upgrade

\$1,927 Biological Sciences (Jim van Es Marine Invertebrate Collection)

Salary support for cataloguing

\$2,000 Biological Sciences (Cryptogamic Herbarium)

Salary support for digitization and data entry

\$2,000 Biological Sciences (Vascular Plant Herbarium)

Salary support for data entry

\$2,000 Devonian Botanic Garden (DBG Herbarium)

Salary support for digitizing specimen information

Government Sources

Government of Alberta (\$17,160)

Alberta Museums Association

\$5,660 Earth and Atmospheric Sciences
(Mineralogy & Petrology Museum)
Development and production of meteorite and diamond displays

\$5,500 Museums and Collections Services (all collections)
Phase II of the University of Alberta Natural Sciences Collections
web portal

\$6,000 Anthropology (Osteology Collection)
Renewal of main floor anthropology exhibit cases

Government of Canada (\$526,659)

Young Canada Works (Canadian Heritage)

\$4,224 Devonian Botanic Garden (DBG Herbarium)
Salary support for digitizing specimen information

\$4,668 Biological Sciences (Vascular Plant Herbarium)
Salary support for data entry

Virtual Museum of Canada (Canadian Heritage)

\$177,767 Museums and Collections Services
(Canadian Centre for Ethnomusicology/ folkwaysAlive!)
Development of virtual museum exhibition on Canadian traditional music

Movable Cultural Property Grant (Canadian Heritage)

\$340,000 Museums and Collections Services (Meteorite Collection)
Acquisition of the Tagish Lake Meteorite

Section Two

The following information provides details of research grants received by curators and contacts of individual museums and collections.

\$28,000 Natural Sciences Engineering Research Council

Dr. G. Ball -- biodiversity studies of carabid beetles in the Western Hemisphere

\$15,000 Wenner-Gren Foundation for Anthropology

Dr. O. Beattie -- professional development international fellowship

\$22,000 Parks Canada National Office

Dr. R. Belland -- non-vascular plant study Elk Island National Park and area

\$36,100 Natural Sciences Engineering Research Council

Dr. T. Chacko -- fluid- and melt-related processes in the continental crust: experimental constraints

\$32,000 National Research Council of Canada

Dr. B. Dancik -- editor-in-chief, Journals & Monographs Programs – NRC

\$14,810 Parks Canada National Office

Dr. A. Derocher -- dispersal and source-sink dynamics of gray wolves (*Canis lupus*) using DNA-based, non-invasive sampling in the Canadian Central Rockies Ecosystem

\$10,000 Natural Sciences Engineering Research Council

Dr. A. Derocher -- polar bears and climate change: habitat use and trophic interactions

\$10,000 Parks Canada National Office

Dr. A. Derocher -- dispersal and source-sink dynamics of gray wolves (*Canis lupus*) using DNA-based, non-invasive sampling in the Canadian Central Rockies Ecosystem

\$8,000 World Wildlife Fund Canada

Dr. A. Derocher -- protecting critical grizzly bears (*Ursus arctos*) habitat relative to oil and gas development in the Mackenzie Delta

\$75,000 Government of the Northwest Territories

Dr. A. Derocher -- effects of oil and gas exploration and development activities on grizzly bear in the Mackenzie Delta development area.

\$20,000 Government of the Northwest Territories
Dr. A. Derocher -- Grizzly Bear habitat and population

\$4,900 Government of the Northwest Territories
Dr. A. Derocher -- study design option for population estimate of grizzly bears east of the Mackenzie Delta, ISR

\$250,000 United States Department of Interior MMS
Dr. A. Derocher -- populations and sources of recruitment in polar bears

\$25,000 Government of the Northwest Territories
Dr. A. Derocher -- ecology of grizzlies in the Mackenzie Delta Oil and Gas development area

\$6,000 EPCOR
Dr. A. Foote -- Genesee mine marsh creation project study

\$22,922 University of Windsor
Dr. A. Foote -- carbon dynamics, food web structure, and reclamation strategies in Athabasca oil sands wetlands FR: Doctor, J. Ciborowski, U of Windsor

\$10,000 University of Windsor
Dr. A. Foote -- carbon dynamics, food web structure, and reclamation strategies in Athabasca oil sands wetlands FR: Doctor, J. Ciborowski, U of Windsor

\$7,300 Université Laval
Dr. A. Foote -- Peatland Reclamation Study

\$54,096 Cumulative Environmental Management Association
Dr. A. Foote -- bird assemblages as integrators and indicators of reclamation efficacy in surface mined oil sands areas

\$10,000 Université Laval
Dr. A. Foote -- Peatland Reclamation Study

\$7,078 University of Windsor
Dr. A. Foote - carbon dynamics, food web structure, and reclamation strategies in Athabasca oil sands wetlands FR: Doctor, J. Ciborowski, U of Windsor

\$24,000 Natural Sciences Engineering Research Council
Dr. C. Herd -- experimental studies of Martian basalts and their mantle sources

\$10,000 MacDonald, Dettwiler & Assoc. Inc. (MD Robotics)
Dr. C. Herd -- borehole gamma ray spectrophotometer for the subsurface exploration of Mars

\$32,647 Social Sciences & Humanities Research Council
Dr. S. Hijmans - religion, art and identity in the Upper Danube provinces of the Roman Empire

\$58,920 Natural Sciences Engineering Research Council
Dr. B. Jones -- carbonate facies and diagenesis/hot spring deposits

\$25,000 National Research Council of Canada
Dr. B. Jones -- Editorial Services

\$218,500 Alberta Municipal Affairs
Dr. N. Juma -- methods to quantify and evaluate the treatment performance of on-site sewage treatment systems in Alberta

\$25,000 Canada Mortgage and Housing Corp.
Dr. N. Juma -- do pressurized at-grade onsite sewage systems provide quality treatment compatible with the landscape?

\$26,000 Natural Sciences Engineering Research Council
Dr. C. La Farge-England -- biology of bryophytes

\$3,000 University Conference Fund
Dr. A. Nahachewsky -- Cossack Cowboy: The Ukrainian Experience in Alberta, University of Alberta, Edmonton, AB, Nov 17-19, 2005

\$1,500 Alberta Community Development
Dr. A. Nahachewsky -- oral history interview and recording

\$21,000 Natural Sciences Engineering Research Council
Dr. J. Nelson -- fish classification and systematics

\$58,000 Natural Sciences Engineering Research Council
Dr. A. R. Palmer -- comparative and experimental studies of marine invertebrate morphology and evolution: the origin and persistence of morphological diversity

\$1,500 University Conference Fund
Dr. A. R. Palmer -- Development, Morphology, Evolution: The Triple Helix, University of Alberta, Edmonton, AB, May 2-6, 2006

\$18,000 Natural Sciences Engineering Research Council
Dr. C. Paszkowski -- ecology of amphibians in the Western Boreal Forest and aspen parkland

\$12,000 World Wildlife Fund Canada
Dr. C. Paszkowski -- genetic diversity analysis of endangered Alberta and Saskatchewan sage grouse

\$29,000 Alberta Conservation Association
Dr. C. Paszkowski -- development of an Index of Biological Integrity for Grassland Streams in Alberta

\$10,000 Alberta Conservation Association
Dr. C. Paszkowski -- development of an Index of Biological Integrity for Grassland Streams in Alberta

\$21,642 Social Sciences and Humanities Research Council
Dr. R. Qureshi -- female agency and patrilineal constraints: situating courtesans in 20th century India

\$4,000 University of Alberta
Dr. R. Qureshi -- Folkways cover art: Moses Asch's vision for contextualizing the sounds on Folkways Records

\$4,182 University of Alberta
Dr. J. Rossiter -- archaeological research, Cyrene, Libya

\$1,400 University of Alberta
Dr. J. Rossiter -- a new look at the Roman Circus Mosaic from Horkstow England -- Xth International Colloquium of the International Association for the Study of Ancient Mosaics, Conimbriga, Portugal, Oct 29 -- Nov 4, 2005

\$5,000 Central Research Fund
Dr. J. Rossiter -- SSHRC 4A: Community and housing in ancient Oinoanda

\$6,500 University of Alberta
Dr. P. Willoughby -- technology and the origin of modern humans in south-western Tanzania

\$2,500 University of Alberta

Dr. P. Willoughby -- middle and later stone age technology in south western Tanzania -- 12th Congress of the Pan-African Archaeological Association for Prehistory and Related Studies, Gaborone, Botswana, Jul 3-10 2005

\$48,000 Natural Sciences Engineering Research Council

Dr. M. Wilson -- evolution of primitive vertebrates revealed in extraordinary fossil deposits

Appendix Six:

Contact Information

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Dr. Michael Caldwell and Janine Andrews