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University of Alberta Museums Annual Report

July 1, 2011 to June 30, 2012

1.0 Executive Summary

This report summarizes the activities of the Policy and Planning Committee, with selected academic museum collections-based highlights and achievements from July 1, 2011 to June 30, 2012.

- The Committee's annual review of funding needs applications for academic museum collections, coupled with a systematic Collections Needs Assessment, underscored the fact that academic museum collections on campus continue to struggle with obtaining funds for basic collections-related needs to facilitate research, and that greater sources of institutional support are essential.
- The Policy and Planning Committee was apprised of new, critical museum collections-related facility issues that include asbestos abatement programs and storage of specimens in alcohol.
- The Committee approved acquisition strategies for 10 registered academic museum collections that identify collecting direction in support of faculty and department-level academic plans.
- The Policy and Planning Committee contributed to the discussion on the future use of Enterprise Square for the University of Alberta Museums.
- Several curators of academic research collections achieved national and international recognition for their work, highlighting discoveries and research accomplishments.
- The Committee reviewed the guidelines for the Internship in Museum Innovation and recommended it be restricted to undergraduate students, as there are few similar opportunities available at this level.
- The Policy and Planning Committee approved the deaccession of 170 specimens from the University of Alberta Museum of Zoology, Ichthyology Collection.

Museum Mysteries Explained: Student Internship in Innovation

“The different areas of museum practice were slightly mysterious to me before this summer,” explains Taryn Kneteman, an undergraduate printmaking student and the 2011 recipient of the Friends of the University of Alberta Museums Student Internship in Innovation. “Spending the summer working at the U of A Museums with its diverse collections, understanding their integral role in teaching and research and their strong connections to the community, is invaluable to my interest in pursuing a path in museum studies and studio art.”



U of A Museums student intern Taryn Kneteman with objects in the Ethnographic Collection.

Over the course of her four-month internship in the summer of 2011, Taryn worked on various projects with a number of collections including the Ethnographic and Mactaggart Art Collections. She put her skills and education to work developing a lesson plan for the Muse Project and doing collection inventories, appraisals and research. Reflecting on the diversity of the projects she undertook, Taryn says it “allowed me to see the careful stewardship and passion that goes into the collections to make them best available for teaching and research. I learned much about making museum education open, accessible and exciting for students, and about the potential of bringing museum objects and knowledge to life.”

Taryn was chosen through a competitive selection process and is the second recipient of this annual full-time summer internship, created in 2009 to recognize the 25th anniversary of the Friends of the University of Alberta Museums. She feels confident that the opportunity to work in a museum setting with so many different collections has equipped her with the knowledge, tools and inspiration to pursue a future in the world of museums and galleries. “This internship has been an exciting and irreplaceable experience rich in challenges and rewards. [It] has demystified my understanding of museums without dispelling any of the magic that museums hold.”

2.0 Report of the University of Alberta Museums Policy and Planning Committee

The University of Alberta Museums Policy and Planning Committee met formally on October 25, 2011, December 8, 2011, March 8, 2012, and May 15, 2012. Several issues identified in the last report are ongoing in this academic year.

2.1 Activity One

University of Alberta Museums and Collections Policy (ongoing activity)

Key policy compliance activities focused on the development of Acquisition and Management Strategies (two separate documents) for each registered collection. To this end, the following tasks were undertaken in 2011-12:

- The Policy and Planning Committee approved acquisitions strategies for 10 academic museum collections. In total, 11 of the 29 provisionally registered academic museum collections now have approved acquisition strategies based on departmental academic plans. Museums and Collections Services (MACS) staff continue to work with curators, and it is anticipated that the remaining 18 academic museum collections will have approved strategies by the end of the 2012-13 academic year.
- Museums and Collections Services (MACS) staff conducted a Collections Needs Assessment with faculty and staff from 24 of 29 registered academic museum collections that exist across five faculties. Results will be analyzed to shape service delivery, training and the development of a framework for Management Strategies. Of the collections surveyed:
 - 87.5% have academic museum collections stored in inadequate or inappropriate spaces for the types of materials being held.
 - 75% of academic museum collections surveyed indicated the collections were underfunded, particularly with regard to human resources (50%) and operating funding (54%).
 - 62.5% of academic museum collections indicated that the creation and maintenance of museum research data (including identification; provenance; location data; etc.) in digital format for risk management/fiduciary purposes and for facilitating research connections to web portals, especially in the sciences, was an immediate or future priority.
 - 54% of academic museum collections require increased support in creating and following data standards within their academic research disciplines.
 - 54% of academic museum collections require assistance in updating collections data from a research/discipline perspective and not just as a data-entry task.

2.2 Activity Two

Curatorial Research Facility (ongoing activity)

The Policy and Planning Committee continues to discuss the need for dedicated, purpose-built facilities for the academic museum collections associated with the U of A Museums, and the need to reopen and update the planning conducted in 2005 for the Curatorial Research Facility. These discussions go hand-in-hand with requirements of the University of Alberta Museums' Category "A" designation, detailed below.

Cool Stuff: The University of Alberta Museums Do Winter

The University of Alberta Museums kicked off 2012 with a flurry of activity as staff collaborated with academic curators, collections staff and exhibition designers to develop and mount *Cool Stuff*, the U of A Museums' first exhibition at the Enterprise Square campus in the heart of the city.

Featuring a wide array of artifacts, artworks and scientific specimens related to winter and Canada's North, the dazzling display was seen by over 2,000 visitors during its limited run of 26 days between February 17 and March 31, 2012. In a feature story about *Cool Stuff*, the *Edmonton Journal's* visual arts critic wrote, "This is a cabinet of curiosities, a space filled with natural and man-made objects alongside artistic endeavours, and all toasting the North's frosty season. Each item in itself is eye candy but seems more delicious when juxtaposed with the unlikely combination of artifacts, specimens and art objects."

The *Cool Stuff* noon-hour lecture series—featuring U of A Museums academic curators and researchers Phil Currie, Chris Herd, John Acorn, Jeremy Rossiter, and Jim Corrigan—pulled in standing-room only crowds eager to hear about everything from dinosaur hunting in the Arctic to ancient Roman ways of coping with winter. The *World of Winter*, a curriculum-linked field trip program created by U of A Museums to complement *Cool Stuff*, drew Grade 1 students from the Edmonton area.

Building on the success of *Cool Stuff*, the U of A Museums is developing exhibitions to open in the fall of 2012 at Enterprise Square.



2.3 Activity Three

Review of Category "A" Designation (ongoing activity)

The U of A Museums' Category "A" Designation, conferred by the Department of Canadian Heritage, has been under review since 2004-05 and remains conditional. The following summarizes steps taken by MACS in 2011-12 to address these requirements in the absence of a designated Curatorial Research Facility, as well as identifying new issues that reinforce the need for a purpose-built facility.

Part A: Facilities

Museums and Collections Services continue to meet regularly with the Office of the University Architect and departmental academic collections to ensure that timely discussions and decisions can take place related to collections spaces and facilities. Facilities issues addressed during this reporting period include:

- **Asbestos Abatement Program (Anthropology Collections)**
 - Several Anthropology collections (ethnography, archaeology, zooarchaeology, osteology, and fossil hominid collections) stored in the HM Tory Building will need to be temporarily relocated as Facilities and Operations looks at removing asbestos from the first floor of the building in 2013 and from the basement in 2014.
 - Issues of primary concern include addressing the impact of a move on each of the academic museum collections, developing decant plans, determining who will pay for the costs of packing/rehousing the collections to be moved, and determining appropriate renewal requirements for each of the collections. The issue of academic museum collections needing to be moved is a recurring one across the U of A campus and is one of the barriers faced by U of A Museums when seeking unconditional Category “A” designation.

- **Alcohol Storage Issues (Ichthyology and Parasite Collections)**
 - Environmental Health and Safety reviewed both the Ichthyology Collection and the Parasite Collection and found that they do not meet fire safety standards for alcohol storage. A meeting was held with representatives from U of A Museums, Emergency Management, Environmental Health and Safety, Facilities and Operations, and the Department of Biological Sciences to better understand the code deficiencies and the minimum requirements for code compliance. Museums and Collections Services have suggested that this issue should be reviewed holistically as there are seven additional academic museum collections with specimens stored in alcohol across campus that could be affected by this standard.

- **Relocation of Faculties and Departments to the Edmonton Clinic Health Academy (ECHA)**
 - With the opening of ECHA, several faculties and departments were required to relocate/vacate existing premises with considerable impact on MACS.
 - The School of Dentistry has maintained a registered museum collection since the 1970s. MACS has been working with a Task Force of faculty and community members to assess Dentistry’s collection against academic teaching and research needs and available resources to determine future direction for this collection and ultimately to develop a move/deaccession plan.
 - The Faculties of Pharmacy, Nursing and several health-science related departments, though they do not have registered museum collections, have sought

assistance from MACS with assessing and relocating large collections of memorabilia and equipment.

- MACS has received these requests for assistance, but currently has no capacity to assist with addressing all of the needs.

Part B: Emergency Preparedness Planning

Museums and Collections Services continues to work with the Office of Emergency Management to ensure our emergency planning and salvage procedures align with the broader university framework and that all campus first responders are aware of the unique needs of the academic museum collections across five faculties within our distributed system.

- A Museums and Collections Services representative continues to participate in tabletop sessions and other campus emergency planning sessions and was part of the planning team that prepared an Emergency Operations Centre simulation exercise for the U of A's Crisis Management Team.
- MACS' conservator is developing a risk assessment by analyzing data collected during the Collections Needs Assessment. From this, collections-specific emergency plans will be developed in consultation with faculty curators and collections staff, as well as a short/long-range plan to address high-risk issues.
- Components to make a mobile workstation and disaster kits have been purchased, assembled and distributed to academic museum collections. The disaster kits are collections' first line of defense against commonly occurring incidents such as floods and leaks, and are particularly critical in a distributed network system with non-purpose-built storage facilities and aging infrastructure.

2.4 Activity Four

Return of Cultural Property Request (ongoing activity)

The Policy and Planning Committee continues to monitor an ongoing request for the return of human remains and associated funerary objects related to the Sharphead burial site, that have been held in trust by the U of A in the Department of Anthropology since 1965. The Department of Aboriginal Relations, Government of Alberta, is lead negotiator, and members of the Return of Cultural Property Committee (an ad hoc group under the Policy and Planning Committee) participated in two meetings with band representatives in the past year. To date there has been no specific outcome or decision.

2.5 Activity Five

Enterprise Square (new activity)

- In late 2011, MACS was asked to manage the climate-controlled exhibition space in Enterprise Square and began a series of consultations to prepare a business case and program plan going forward. The U of A Museums do not have access to permanent climate-controlled exhibition space which is required to meet Department of Canadian Heritage Category "A" status and criteria set by other granting agencies to make museum collections publicly accessible via exhibitions. The Enterprise Square space helps to meet some of these needs, but it also comes with new resource and logistics burdens to MACS and the U of A Museums.
- At the same time, the university also engaged in negotiations with the City of Edmonton regarding a programming partnership among several arts and heritage organizations, including the U of A Museums, that would have financial support from the City of Edmonton. The outcome of these negotiations is expected in fall/winter 2012.
- As a pilot project, the U of A Museums mounted its inaugural exhibition in Enterprise Square, *Cool Stuff: The University of Alberta Museums Do Winter*, from February 17 to March 31, 2012 in order to upgrade and test the exhibition spaces which have been vacant for the past two years. MACS also partnered with the U of A's Student Design Association for the presentation of their exhibition *Sweat of Our Brow* and with the "Edmonton on the Edge" Committee to present the exhibition *Highlights from illumiNITE 2012*.

2.6 Activity Six:

Funding Needs Adjudication (annual activity)

The Policy and Planning Committee adjudicated the annual funding needs requests submitted by faculty curators of registered academic museum collections. Although **\$75,496.68** were requested in 2011-12, only **\$43,567*** were distributed based on available monies.

Funding sources available to the U of A Museums in 2011-12 include:

- Community Outreach Endowment Fund: a U of A Museums fund which generated approximately \$11,000 in 2011-12

* See Appendix E, Section One for detailed funding information.

- The Friends of the University of Alberta Museums, who raise and donate funds for projects, totaling \$33,192 in 2011-12
- Selected grant programs coordinated by Museums and Collections Services, including Young Canada Works in Heritage and the Alberta Museums Association
- In addition to funding coordinated via Museums and Collections Services, designated academic curators and collections staff are actively involved in research*, much of which relates to academic museum collections.

* See Appendix E, Section Two for detailed funding information. This chart is generated by the Research Services Office.

U of A Museums 2011-12 Highlights: Accomplishments, Accolades and Acquisitions



Allen Shostak



John Acorn (L) and Felix Sperling (R)



Dr. George Ball receiving his Curator Hall of Fame award at the 2012 Museum Celebration



Janine Andrews

- **Allen Shostak**, Curator of the Parasite Collection, received the R.A. Wardle Award from the Canadian Society of Zoologists, for "outstanding contributions to the advancement of our understanding of the biology of parasitic organisms".
- **Felix Sperling**, Curator of the E.H. Strickland Entomological Museum, received a grant of nearly \$250,000 from Alberta Innovates Bio Solutions to conduct research on spruce budworms from 2012-15.
- **John Allan** (1884-1955), founder of the Department of Geology (now the Department of Earth and Atmospheric Sciences), was inducted into the U of A Museums' Curator Hall of Fame for 2012 for initiating the Geological Museum, one of the first museum collections on campus, now known as the Mineralogy/Petrology and Paleontology Museums.
- The indefatigable **George Ball** was also inducted into the 2012 Curator Hall of Fame for being the heart and soul of the E.H. Strickland Entomological Museum from his arrival at the University of Alberta in 1954, through his nearly 40 years as curator, and until this day in his role as professor emeritus.
- The Clothing and Textiles Collection, led by Curator **Anne Bissonnette** and Collections Manager **Vlada Blinova**, had a busy year which included the exhibition *Waste Not, Want Not: Creating through Recycling* and the launch of a new U of A group called the Fashion Culture Network. The collection also participated in the exhibition and catalogue *Knoll Textiles 1945-2010* beginning in May 2011 at the Bard Graduate Center in New York City.
- **John Acorn**, Curator of the U of A's Renewable Resources Natural History Collection, contributed a video titled *Iced Under* to the *Cool Stuff* exhibition. Using a tiny GoPro HD Hero camera lowered into holes in the ice on five local lakes, Acorn captured the activity of Northern Pike, Yellow Perch and a variety of bugs and planktonic crustaceans for visitors to observe.
- The Meteorite Collection, led by Curator **Chris Herd**, had a banner year with the completion of the clean room space that will house the collection and the acquisition of several important specimens—including a specimen of the Tissint, Morocco Martian meteorite, the first Martian meteorite fall in 50 years. This was the first specimen of this meteorite in a Canadian collection, and it provides a unique opportunity to study a freshly fallen meteorite from Mars.
- The U of A Art Collection (UAAC), curated by **Jim Corrigan**, continues to acquire significant artworks through donations and bequests. In the past year more than 170 objects with a total value of over \$700,000 were acquired, including paintings by A.Y. Jackson and Jack Bush. The UAAC also loaned 17 artworks to the Art Gallery of Alberta for its exhibition *Alberta Mistresses of the Modern: 1935-1975*.
- Selected works from the **Mactaggart Art Collection** were showcased in *China's Imperial Modern: The Painter's Craft*, an exhibition that ran from April 5 to July 14, 2012 in the U of A Museums' Gallery A on campus. The exhibition and a catalogue of the same name were developed as part of a senior art history seminar titled "Imperial China's Culture of the Copy".
- In 2011, the Archaeology Teaching Collection was renamed the Bryan/Gruhn Archaeology Collection in honour of founding curators and longtime donors **Alan Bryan** and **Ruth Gruhn**. A plaque commemorating the contributions of Bryan and Gruhn was installed outside the collection and unveiled in a small ceremony in April 2012 with Dr. Gruhn in attendance.
- The Laboratory for Vertebrate Paleontology, under the expert guidance of Curator **Philip Currie** and Head Technician **Clive Coy**, continues to be a magnet for student and faculty researchers from the U of A and the rest of the world, including Argentina, Italy, Belgium, Mongolia, and the U.S. Thirteen new papers resulting from research with the collection were published in the past year. New acquisitions included a nearly complete skeleton of the large tyrannosaur *Daspletosaurus*.
- During the Canadian Museums Association's 65th national conference in April 2012, **Janine Andrews**, executive director of U of A Museums, was awarded a Queen Elizabeth II Diamond Jubilee Medal "for her enduring contributions to the development of the museums of the U of A and her contributions to the museum profession."

Appendix A

Policy and Planning Committee Membership 2011-12

Chair

Heather Proctor
*Curator, Freshwater Invertebrates Collection
and Chair, Curators' Committee*
Department of Biological Sciences

Interim Chair (January - June 2012)

Pamela Mayne Correia
*Curator, Bryan/Gruhn Ethnographic Collection, Fossil Hominid
Cast Collection, Osteology Collection*
Department of Anthropology

Ex Officio (voting)

Janine Andrews
Executive Director, Museums and Collections Services

Tom Kieren
President, Friends of the University of Alberta Museums

General Faculties Council (elected)

William Anselmi
Department of Modern Languages and Cultural Studies

Anne Malena
Department of Modern Languages and Cultural Studies

Curators' Committee (elected)

Anne Bissonnette
Curator, Clothing and Textiles Collection
Department of Human Ecology

Jocelyn Hall
Curator, Vascular Plant Herbarium
Department of Biological Sciences

Pamela Mayne Correia
*Curator, Bryan/Gruhn Ethnographic Collection, Fossil Hominid
Cast Collection, Osteology Collection and Interim Chair of
Policy and Planning Committee (January-June 2012)*
Department of Anthropology

Alison Murray
*Curator, Museum of Zoology (Ichthyology Collection) and
Laboratory for Vertebrate Paleontology (Fossil Fishes)*
Department of Biological Sciences

Undergraduate Student Representative

Christi Jaeger
Department of Biological Sciences

Graduate Students' Association Representative (elected)

Sarah Shewchuk
Department of Comparative Literature

Committee Secretariat (non-voting)

Frannie Blondheim
Associate Director, Museums and Collections Services

Helen Chimirri-Russell
*Museums Advisor, Museums and Collections Services
(Recording Secretary)*

Appendix B

Directory of Registered Collections of the University of Alberta Museums

Faculty of Arts

Department of Anthropology

Bryan/Gruhn Archaeology Collection

Curator: Pamela Willoughby

Bryan/Gruhn Ethnographic Collection

Curator: Pamela Mayne Correia

Fossil Hominid Cast Collection

Curator: Pamela Mayne Correia

Osteology Collection

Curator: Pamela Mayne Correia

Zooarchaeology Reference Collection

Curator: Robert Losey

Department of History and Classics

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

Curator: Jeremy Rossiter

Department of Modern Languages and Cultural Studies

Bohdan Medwisky Ukrainian Folklore Archives

Curator: Andriy Nahachewsky

Department of Music

Canadian Centre for Ethnomusicology

Curator: Regula Qureshi

Faculty of Agricultural, Life and Environmental Sciences

Devonian Botanic Garden

Devonian Botanic Garden Herbarium

Curator: René Belland

Department of Human Ecology

Clothing and Textiles Collection

Curator: Anne Bissonnette

Department of Renewable Resources

Renewable Resources Natural History Collection

Curator: John Acorn

Soil Science Monolith Collection

Curator: Scott Chang

Faculty of Medicine & Dentistry

Department of Laboratory Medicine and Pathology

Pathology Gross Teaching Collection

Curator: David Rayner

School of Dentistry

Dentistry Museum Collection

Curator: Loren Kline

Faculty of Science

Department of Biological Sciences

Cryptogamic Herbarium

Curator: Catherine La Farge-England

Vascular Plant Herbarium

Curator: Jocelyn Hall

Paleobotanical Collection

Curator (Acting): Michael Caldwell

E.H. Strickland Entomological Museum

Curator: Felix Sperling

Freshwater Invertebrate Collection

Curator: Heather Proctor

Jim van Es Marine Invertebrate and Malacology
Collection

Curator: Richard Palmer

Museum of Zoology

*Curator: Cindy Paszkowski (Amphibian and Reptile
Collection / Ornithology Collection)*

Curator: Alison Murray (Ichthyology Collection)

Curator: Andrew Derocher (Mammalogy Collection)

Parasite Collection

Curator: Allen Shostak

Laboratory for Vertebrate Paleontology

Curator: Philip Currie (Dinosaur Collection)

Curator: Alison Murray (Fossil Fishes Collection)

Curator: Michael Caldwell (Higher Vertebrates)

Department of Earth and Atmospheric Sciences

Drill Core Collection

Curator: John-Paul Zonneveld

Invertebrate Paleontology Collection

Curator: Lindsey Leighton

Meteorite Collection

Curator: Christopher Herd

Mineralogy and Petrology Collection

Curator: Tom Chacko

Trace Fossil Collection

Curator: Murray Gingras

Museums and Collection Services

University of Alberta Art Collection

Curator: Jim Corrigan

Mactaggart Art Collection

Curator: Lisa Claypool

Appendix C

Museums and Collections Services Staff

Janine Andrews
Executive Director

Frannie Blondheim
Associate Director

Helen Chimirri-Russell
Museums Advisor

Lisa Claypool
Curator, Mactaggart Art Collection

Jim Corrigan
Curator, University of Alberta Art Collection

Ellen Cunningham
*Exhibition and Outreach Manager
(on leave to May 2012)*

Chantelle De Martin
Administrative Coordinator

Danielle Gajewski
Collections Assistant

Merle Hecht
Intern

Tom Hunter
Collections Assistant

Taryn Kneteman
Intern

Jennifer Kuchta
*Communications and Marketing Coordinator
(on leave from March 2012)*

Denis La France
Senior Systems Administrator

Carmen Li
Preventive Conservation Manager

Christina Marocco
Administrative Coordinator

Erin McDonald
Collections Management Advisor

Sean McWade
Intern

Stephanie Nemcsok
Museum Education Coordinator

Kyle Schmidt
Web Applications Developer

Holly Sykora
Special Projects Assistant

Isabela C. Varela
*Communications and Marketing Coordinator
(leave replacement from February 2012)*

Jim Whittome
Information Management Advisor

Marla Zubiak
*Administrative Assistant
(to December 2011)*

Appendix D

Friends of the University of Alberta Museums Board of Directors: 2011-2012

Tom Kieren
President

Monica Barclay
Treasurer (to May 2012)
Director-at-Large

Dennis Brooks
Director-at-Large

Holly Sykora
Casino/Secretary

Caitlin Wells
Casino

Tai Ziola
Director-at-Large

Appendix E

Detailed Funding Report

Section One

Museums and Collections Services coordinates applications for external funding to museum and heritage organizations and agencies on behalf of the University of Alberta Museums. The following funding was acquired for museum and collection projects between July 1, 2011 and June 30, 2012:

The Friends of the University of Alberta Museums (\$48,192)

Museums and Collections Services (\$15,000)

For the annual "Friends of the U of A Museums 25th Anniversary Student Internship in Museum Innovation"

Department of Anthropology – Fossil Hominid Collection (\$6,500)

Purchase of articulated cast of Australopithecus afarensis "Lucy"

Department of Anthropology – Osteology Collection (\$2,000)

Purchase of osteobiographical analysis teaching aides/casts

Department of Anthropology – Bryan/Gruhn Ethnographic Collection (\$1,192)

Hire undergraduate student to research biographical information for website/collections

Department of Biological Sciences – Vascular Plant Herbarium (\$4,000)

Matching funds to hire a student to database specimen information and photograph specimens of Brassicaceae

Department of Biological Sciences – Museum of Zoology (\$5,500)

Hire a student to upgrade specimens in the fish collection, improve storage containers and identify, accession and database unaccessioned specimens

Department of Biological Sciences – Laboratory for Vertebrate Paleontology (\$5,000 total)

Revitalize dinosaur fossil exhibit cabinets to reflect current research in dinosaur paleobiology. Hire undergraduate student to catalogue new specimens, organize collection space and manage digital and paper records.

Devonian Botanic Garden Herbarium (\$4,000)

Matching funds to hire a student to package, label and digitize herbarium specimens, and process exchange material and new acquisitions

Department of Earth and Atmospheric Sciences – Meteorite Collection (\$5,000)

Purchase unclassified Canadian meteorite specimens for the Meteorite Collection

Community Outreach Endowment fund (\$10,375)

Department of Anthropology – Bryan/ Gruhn Archaeology Collection (\$3,325)

Complete database organization and updates and prepare data to be cleaned by volunteers

Department of Biological Sciences – EH Strickland Entomological Museum (\$3,050)

Packaging insect specimens (sort, pin, pack) on loan and in need of return to lending institutions

Department of Human Ecology –Clothing and Textiles Collection (\$4,000)

Hire a student to pilot a process to create a visual inventory (photograph/link to database)

Young Canada Works in Heritage Institutions – Government of Canada (\$22,675)

Museums and Collections Services (\$6,500)

Hire a student to analyze and develop document standards and data entry guide for the Laboratory for Vertebrate Paleontology

Department of Biological Sciences – Vascular Plant Herbarium (\$11,975)

Hire two students to database specimen information, photograph and prepare specimens of Brassicaceae (mustard) family and newly acquired specimens of Ranunculaceae (buttercup) family

Devonian Botanic Garden Herbarium (\$4,200)

Hire a student to package, label and digitize herbarium specimens and process exchange material and new acquisitions

Alberta Foundation for the Arts (\$10,000)

University of Alberta Art Collection

Partial support for exhibition titled BIG Prints – Contemporary works from the University of Alberta Art Collection to take place in 2013

Section Two

The following table provides details of research grants received by academic curators responsible for individual museums and collections at the University of Alberta. This chart is generated centrally by the Research Services Office and reflects grants with funds awarded during the period of April 1, 2011 to March 31, 2012.

Researcher	Funding	Dept Description	Sponsor	Award Long Description	Start Date	End Date
Belland, Rene	31,943.66	Devonian Botanic Gardens	Sales of Goods & Services	General research funds Belland	2005-05-01	2022-03-31
Caldwell, Michael	26,250.00	Biological Sciences	AB Innovates-Bio Solutions		2008-11-01	2011-10-31
Caldwell, Michael	96,202.41	Biological Sciences	Environment Canada	Fine scale population genomics of polar bears (Ursus Maritimus) using SNP markers	2010-10-15	2012-03-31
Caldwell, Michael	203.00	Biological Sciences	Individual Donors	Research donations Caldwell	2007-10-29	2012-10-28
Caldwell, Michael	50,000.00	Biological Sciences	NSERC	Vertebrate paleontology of terrestrial and marine squamates: testing the relationships of lepidosauria within sauropsida	2011-04-01	2017-03-31
Caldwell, Michael	40,000.00	Biological Sciences	NSERC	Vertebrate paleontology of terrestrial and marine squamates: testing the relationships of lepidosauria within sauropsida	2011-04-01	2015-03-31
Chacko, Thomas	28,000.00	Earth & Atmospheric Sciences	NSERC	Evolution of Earth's Crust: experimental and field-based studies	2011-04-01	2017-03-31
Chacko, Thomas	15,000.00	Earth & Atmospheric Sciences	NSERC	Petrogenesis of Acacia Gneisses, NWT	2011-04-01	2017-03-31
Chang, Scott	50,600.00	RR Adm./General	Agriculture Agrifood Canada	Quantifying carbon sequestration and greenhouse gas emissions in planted shellbelts, natural hedgerows and riparian	2011-12-12	2015-08-31
Chang, Scott	85,292.00	RR Adm./General	Canadian Natural Resources Ltd	Identification of limiting factors for tree growth on reclaimed sites in the Athabasca oil sands region	2010-10-01	2012-12-31
Chang, Scott	22,090.00	RR Adm./General	NSERC	Nitrogen cycling and tree nutrition in boreal forests: interactions with understory vegetation and soil water availability	2002-04-01	2013-03-31
Chang, Scott	85,292.00	RR Adm./General	Shell Canada Energy	Identification of limiting factors for tree growth on reclaimed sites in the Athabasca oil sands region	2010-10-01	2012-12-31
Chang, Scott	85,292.00	RR Adm./General	Suncor Energy Inc.	Identification of limiting factors for tree growth on reclaimed sites in the Athabasca oil sands region	2010-10-01	2012-12-31
Currie, Philip	26,289.00	Biological Sciences	Individual Donors	Donations - Currie Student	2010-01-01	2015-03-31
Currie, Philip	64,000.00	Biological Sciences	NSERC	Palaeobiology (taxonomy, biomechanics, interrelationships, palaeobiogeography, palaeoecology) of Cretaceous dinosaurs	2011-04-01	2017-03-31
Derocher, Andrew	9,100.00	Biological Sciences	Canadian Assoc. of Zoos and Aqu	Impacts of climate change and oil development on the polar bear, the top predator of the Arctic marine ecosystem	2011-04-01	2012-03-31
Derocher, Andrew	5,000.00	Biological Sciences	Canadian Wildlife Federation	Forging ecology of peregrine falcons in the Canadian Arctic	2011-06-01	2012-05-31
Derocher, Andrew	13,607.02	Biological Sciences	CDN Business - Various	Research donations Derocher	2007-07-02	2015-12-31
Derocher, Andrew	80,000.00	Biological Sciences	Environment Canada	Sea ice habitat selection, movement dynamics, and conservation of polar bears in a changing Arctic.	2011-08-05	2015-03-31
Derocher, Andrew	19,500.00	Biological Sciences	NCE ArcticNet	Impacts of global warming on Arctic marine mammals	2011-04-01	2014-03-31
Derocher, Andrew	24,625.00	Biological Sciences	NSERC	Ecology of polar bears in a changing climate	2003-04-01	2013-03-31
Derocher, Andrew	15,000.00	Biological Sciences	NSERC	Polar bears and climate change: habitat use and trophic interactions	2004-04-01	2013-03-31
Derocher, Andrew	57,901.00	Biological Sciences	US Department Interior	Populations and sources of recruitment in polar bears	2005-09-01	2012-09-22
Gingras, Murray	35,000.00	Earth & Atmospheric Sciences	NSERC	Expanding the potential of trace fossil analysis for practical applications	2010-04-01	2016-03-31
Gingras, Murray	15,000.00	Earth & Atmospheric Sciences	Sales of Goods & Services	General research funds Gingras	2004-10-01	2022-03-31
Hall, Jocelyn	71,192.25	Biological Sciences	AB Innovates-Tech Futures	Elucidating the basis of fruit diversity in the plant family Brassicaceae	2009-01-01	2012-12-31
Hall, Jocelyn	30,660.00	Biological Sciences	NSERC	Phylogenetics on morphological diversification in capparidaceae, cleomaceae, and brassicaceae	2007-04-01	2013-03-31
Herd, Christopher	26,000.00	Earth & Atmospheric Sciences	NSERC	The geology of Mars from studies of martian meteorites	2003-07-01	2013-03-31
Klime, Loren	8,500.00	Dentistry	Sales of Goods & Services	General research funds Klime	1999-02-01	2022-03-31
Leighton, Lindsey	22,000.00	Earth & Atmospheric Sciences	NSERC	Assessing predation through time and space	2009-04-01	2014-03-31
Murray, Alison	19,000.00	Biological Sciences	NSERC	Systematics and biogeography of fossil and living teleost fishes	2006-04-01	2013-03-31
Paszkowski, Cynthia	6,250.00	Biological Sciences	AB Conservation Association	Using wetland dependent wildlife to monitor climate change and landscape change	2011-04-01	2012-03-31
Paszkowski, Cynthia	4,000.00	Biological Sciences	AB Sport Recreac Parks WL Frdn	Using conservation genetics to assess the effects of land-use changes on population of the endangered Greater Shorthorned	2011-05-01	2012-04-30
Paszkowski, Cynthia	34,000.00	Biological Sciences	NSERC	The roles of habitat and interspecific interactions in the ecology of amphibians	2010-04-01	2016-03-31
Proctor, Heather	23,640.00	Biological Sciences	NSERC	Sexual selection in mites: copulation, conflict and complexity	2003-04-01	2013-03-31
Spierling, Felix	61,070.00	Biological Sciences	NSERC	Speciation, phylogeny and diversity of insects	1999-04-01	2013-03-31
Spierling, Felix	6,036.60	Biological Sciences	Sales of Goods & Services	General research funds Spierling	2002-01-01	2022-03-31
Willoughby, Pamela	61,325.00	Anthropology	SSHRC	The Evolution of Modern Humans in southern Tanzania: Further investigations by the Iringa Region Archaeological Project	2011-04-01	2015-03-31
Zorneweld, John-Paul	53,000.00	Earth & Atmospheric Sciences	NSERC	Stratigraphic architecture & depositional evolution of the upper Triassic Charlie Lake formation.	2009-04-01	2014-03-31

