



UNIVERSITY OF ALASKA

MUSEUM OF THE NORTH



FY11 ANNUAL REPORT • 7.2010–6.2011



UNIVERSITY of ALASKA FAIRBANKS



The University of Alaska Museum of the North, located on the Fairbanks campus, is the only museum in the state with a tripartite mission of research, teaching and collecting. The museum's botanical, geological, zoological, and cultural collections, primarily from Alaska and the Circumpolar North, form the basis for understanding the local as well as the global past, present and future. Through collection-based research, teaching, and public programs, the museum shares its knowledge and collections with local, national, and international audiences of all ages and backgrounds.

Museum Professional Staff

Carol E. Diebel, Museum Director

Administration

Barbara Ellanna, Fiscal Professional
Andrew Quainton,
Assistant to the Director
Linda Sheldon, Fiscal Technician

Advancement & Marketing

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Alaska Center for Documentary Film

Leonard Kamerling, Curator*

Archaeology

Jeff Rasic, Acting Curator
James Whitney, Collection Manager
Scott Shirar, Research Archaeologist

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Theresa Bakker,
Communication Manager

Earth Science

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Amanda Hanson, Curatorial Assistant

Education

Laura Conner, Director
Jennifer Arseneau,
Education Program Leader
Chris Cannon, Outreach Specialist
Peggy Hetman, Public Liaison
Roger Topp, New Media Producer

Entomology

Derek Sikes, Curator*

Ethnology and History

Molly Lee, Curator Emerita *
Angela Linn, Collection Manager

Exhibition & Design

Steve Bouta, Chief Preparator
Tamara Martz, Production Assistant

Genomic Resources

Aren Gunderson, Coordinator

Fine Arts

Mareca Guthrie, Collection Manager

Herbarium

Steffi Ickert-Bond, Curator*
Jordan Metzgar, Collection Manager
Dave F. Murray, Curator Emeritus
Carolyn Parker, Research Professional

Fish & Marine Invertebrates

Andres Lopez, Curator*

Mammalogy

Link Olson, Curator*

Brandy Jacobsen, Collection Manager
Dusty McDonald, Programmer

Operations

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Ornithology

Kevin Winker, Curator*
Jack Withrow, Collection Manager

Visitor Services

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White Hunting Hat
by Mike Wassilie.
Purchased with the
generous support
of the Rasmuson Art
Acquisition Initiative.

The Year in Numbers

Total attendance: 77,496

Number of free events: 12
Attendance at free events: 2,875

Accessions: 269
New specimens: 86,582
Outgoing loans: 129

Museum Director: Carol E. Diebel
Editor: Theresa Bakker
Designer: Dixon Jones

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Cover, left, from top: An extreme low tide near Kake in Southeast Alaska in May 2011 revealed the tail of a thalattosaur fossil; return to civilization after long days in the field collecting with the tundra mobile, Lavrentiya, Chukotka, Russia; ethnology collection manager Angela Linn examines items donated by John R. Bockstoce, including a pair of polar bear pants; Alaska Summer Research Academy archaeology crew Dael Devenport, Aly Zeiger, Sam Schmidt, Samantha Haight, Ross Silverman, Deenaalee Hodgdon, Chris Houlette, Jim Whitney, Rachel Lindley. Right: The summer sunshine shows off the museum's new banners.



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From the Director



Dear Friends and Supporters,

This has been a challenging, yet rewarding year on many different levels. The staff and faculty of the UA Museum of the North have made discoveries through research, added to the collections, educated students, and produced exhibitions and events to engage our visitors while meeting our common mission

and vision. The number of individuals who have risen to the challenge of shifting budgets, pared down staffing, and combined responsibilities is a significant accomplishment. The passion to deliver and represent the museum at a high professional standard has been the theme supporting all of us as we continue to function as a team. We have delivered more and continued to grow.

Sadly, the entire museum mourned the unexpected passing in August 2010 of Barry McWayne, photographer and retired coordinator of the fine arts collection at UAMN until 2007. He was a much loved member of the Fairbanks art scene. His talents as a photographer will be greatly missed.

The collections and research faculty and staff continued to contribute to the museum's mission through many varied research projects; teaching 17 university level courses in seven different fields; supervising and training students; adding to the collections; assisting in a variety of museum public outreach programs and exhibits; delivering research results through professional publications and conferences; and obtaining funding for and establishing networks through partnerships and grants.

Some of the research projects completed during the fiscal year 2011 include systematic and population genetics assessments of whitefish, hoary marmots, Beringian plants, beetles, and duck-billed dinosaurs. A Russian blockhouse was disassembled and rehabilitated, thanks to a Save America's Treasures grant. A new documentary film, *Strange and Sacred Noise*, about a performance of composer John Luther Adams' work by the same title premiered in New York City. Field trips resulted in the documentation of prehistoric rock art, the discovery of a series of decorated clay discs in Noatak, Alaska, the removal of a rare marine reptile from an at-risk site in southeast Alaska, a visit to a hotbed site for biodiversity in the Russian far east,

a bat inventory and monitoring project with the Alaska Department of Fish and Game in areas throughout Alaska, and the continued collection of birds from the Philippines.

The entomology department surpassed 100,000 catalogued specimens and the mammal collection grew by over 2,300 new specimens. New acquisitions to the ethnology department included a 61-object donation of early 20th century Point Hope objects collected by the Rev. William A. Thomas. The fine arts collection received a donation by Anne and Jeffries Wyman Jr. of 17 watercolors painted by their father, Jeffries Wyman, during his stay in Anaktuvuk Pass in 1951.

Our education team reached over 3000 Fairbanks-area students and organized a variety of family-focused special events that increased winter visitation by the local community. For the second year, the archaeology department welcomed six high school students for an excavation in the Yukon-Charley Rivers National Preserve as part of the Alaska Summer Research Academy. Travel to rural communities continued through the NASA-sponsored digital portable planetarium that reached audiences in nearly every geographic region in the state. Fourteen different communities were served this year. More than 15,000 students (K-12) and 45 communities have seen presentations to date.

The exhibits team designed and presented two special exhibits during this fiscal year. They focused on fueling Alaska's future with *Power Play* and brought live butterflies to Fairbanks in the winter. The latter had a measurable impact on increasing local visitor numbers in winter.

Our visitor services department got high marks from local, national, and international visitors, although tourism continued to be an economic challenge. We had 15,000 fewer people come through our doors than the year before. In spite of this, creative efforts continued to maintain a diverse revenue stream. We also increased the number of movie showings in our auditorium, which brought in additional revenue. We are optimistic about continuing to grow our role as an anchor institution that improves the quality of life for our communities.

Carol E. Diebel

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Public Programs	Visitor Services	Research & Collections	Selected Publications	Field Sites, Professional Service	Gifts to the Collections	Development & Membership	Financial Summary	Grants & Contracts
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Public Programs



Exhibits

During FY11, the museum presented three special exhibits:

The Butterfly Pavilion provided an opportunity to experience the wonder of colorful, live butterflies during the Fairbanks winter. Visitors could watch metamorphosis in action, take photos of themselves in butterfly costumes, and create a take home craft.

Next, the museum hosted the traveling exhibition, **Coffee: The World in Your Cup**. This exhibit was produced by the Burke Museum of Natural History and Culture. The exhibit used photos, maps, texts, artifacts, and audiovisual presentations to explore coffee's origins, its past and present methods of production, and how the coffee we drink impacts cultures, economies, and environments across the globe.

Power Play: Energizing Our Lives, Fueling Alaska's Future was developed in partnership with the Alaska Center for Energy and Power. This exhibit challenged visitors to think about how we use energy, not just to heat our homes and fuel our vehicles, but to acquire the food we eat, the clothes we wear and the products we use daily. It also explored the options for powering Alaska into the future. This marked a milestone for the museum, not just for its level of interactivity, but also for the extent of graphic material presented.

Steve Bouta advised the BLM's Coldfoot Interagency Visitor Center on methods and materials to mitigate degradation of exhibits in a facility that goes cold in winter. The Exhibit & Design team also managed the installation and carving of the museum's ice sculpture as well as a number of projects in collaboration with other museum departments. Production assistant Tamara Martz worked with Visitor Services to design a Power Play T-shirt. She also collaborated with Theresa Bakker, communication manager, Dan David, visitor services manager, Mareca Guthrie, fine arts collections manager, Angela Linn, ethnology collections manager, and members of the Fairbanks community to plan the 2011 Artisan's Expo at the museum.



OPPOSITE, FROM TOP Students touch and examine Alaska Native clothing during a Native Cultures *Directed Discovery* field trip. | The city engine's wind power wheel in the *Power Play* exhibit.

RIGHT, FROM TOP The Butterfly Pavilion. | *Power Play* exhibit logo by Tamara Martz. | Entrance to the *Coffee: The World in Your Cup* exhibit.





Education & Outreach

The Education Department presented a new event for local children and parents. The Family Days series, sponsored by Totem Ocean Trailer Express, offered an up close look at collections and exhibits, along with activities and crafts. The inaugural spring semester included programs on butterflies, dinos & fossils, marmots, fish, and native arts & culture. The museum also hosted several special events, including the UAF Faculty Day, a Halloween open house and the Annual Open House & Military Appreciation. School programs included a Home School Day in October, attended by 189 homeschooled children and their families. The department also continued to coordinate the directed discovery and exhibit exploration field trip programs, serving more than 3000 students from the Fairbanks North Star Borough school district, thanks to a partnership with Flint-Hills Resources.

Education staff played a much larger role with special exhibits during FY11, including *Then & Now, Alaska From Air and Space* (Alaska Satellite Facility images displayed in the museum café), and *Power Play*. Roger Topp, new media producer, led the development and programming of *Power Play's* interactive machines. The team also proposed the concept for a Butterfly Pavilion; secured permits; and planned for display, butterfly care, and activities. The department assisted with panel layouts, writing, and editing; managed incoming pupa shipments, and prepared animals for exhibit.

Jennifer Arseneau, program leader, and public liaison Peggy Hetman offered fall and spring docent training, along with presentations to the UAF community about how to reach underserved audiences and to the Fairbanks North Star Borough School District on museum resources for secondary teachers. Director Laura Connor presented "Night sky programming for rural Alaska: a meeting of cultures" at the Association for Science and Technology Centers annual conference.



CLOCKWISE FROM ABOVE Captain Trevor Boswell from the 18th Aggressor Squadron at Eielson Air Force Base shows a museum visitor how a pilot gets oxygen at the 2011 Open House and Military Appreciation in April. | Eskimo yo-yo practice at Native Arts and Culture Family Day. | Pavva Inupiaq dancers performing at Native Arts and Culture Family Day. | The planetarium visits Tetlin. Patrick Joyce helps the kids step right in. | Comparing skulls during a Museum Science Directed Discovery field trip.

The museum is also participating in a NASA grant that supports travel to rural communities throughout Alaska with a digital portable planetarium. Reaching audiences in nearly every geographic region in the state, educators have given astronomy presentations to more than 15,000 students (K-12) and community members in approximately 45 communities. Outreach Specialist Chris Cannon Chris Cannon traveled to fourteen different communities: Lower Kalskag, Upper Kalskag, Aniak, Stony River, Klukwan, Pitkas Point, St Mary's, Valdez, Cordova, Haines, Kodiak, Glennallen, Kenny Lake, & Fairbanks (Chinook & Nordale Elementary).

UAF Courses

The museum's curators have joint appointments as faculty members at the University of Alaska Fairbanks. During FY11, museum curators and other staff taught the following courses:

ART 463/393	History of Color: Paints and Pigments
ART 471/472/672	Computer Animation
BIOL F192P	Introduction to Alaska's Flora
BIOL 195	Field Entomology
BIOL 195	Introduction to Alaska's Mammals
BIOL 331	Systematic Botany
BIOL 406	Entomology
BIOL 644	Genomics of Speciation
BIOL F692	CASE Teaching Fellowship
BIOL/MSL F694	Communicating Science
BIOL F697	CASE Education Institute
ED F595P	Week in the Woods
ENG 688	Writing for Film and Television
FISH/BIOL F427	Ichthyology
FISH 492/692	Fisheries Division Seminar
GEOS/BIOL F486/F686	Vertebrate Paleontology
GEOS F488	Undergraduate Research
JRN 101	Introduction to Mass Communication
JRN 215	Radio Production



FROM TOP Genomic Resources Coordinator Aren Gunderson shows off some mad scientist moves at the 2010 Halloween Open House. | Making butterfly rubbings during Butterfly Family Day. | Thanks to the Fairbanks Concert Association for sharing their artists with the wider community in unique and surprising ways, like the Calder Quartet's preview performance in front of the Alaska Range viewing window on a spectacularly sunny day in March 2011.

Visitor Services

The UA Museum of the North continues to be a cultural and education attraction for both locals and visitors to Fairbanks. Overall museum visitation during FY11 held steady at 77,496, a hopeful sign that Alaska tourism is beginning to rebound after the last couple of summers. Alaska tour companies increased their visitation to the museum by 2,000 passengers. Thanks to the more than 77,000 visitors who came to the museum, our admission revenue totaled \$535,585. Museum Store sales totaled \$653,585. The store's largest inventory departments continue to be books and Alaska Native carvings. Combined, these two categories account for 67% of total inventory and sales.

The museum's movies brought in \$83,569. That line-up includes the titles *Winter, You Are Here*, and *Dynamic Aurora*. These films were produced by New Media Producer Roger Topp and are updated annually. In FY11, among many products developed, the store released a DVD of *Dynamic Aurora*. This version of our most popular movie features new time lapse photography shot by Chris Cannon and computer graphics created by Roger Topp.

In an exciting move late in the year, we began developing our current audio tour into a smartphone application. By the end of FY11, the majority of our self-guided tour was available at no cost to smartphone and tablet users who visit the museum. In addition to this new app, our traditional museum audio guide rentals made \$9,400.

The museum hosted 31 events during the year including four TOTE Family Days, the Military Appreciation Reception, a Halloween event, Sparktacular, the annual Open House, the Chocolate Bash, Artisan Expo & Sale and two museum exhibit-related events. UAMN was the venue for 11 university receptions, two university lectures, two UAF English Department readings, a private wedding, the Museums Alaska Convention reception, and the Alaska Federation of Natives board dinner. There were 12 museum events with free admission in FY11. During these events, 2,875 people enjoyed the museum at no charge.

Operating the Visitor Services department consists of running the Museum Store, Museum Admission and Information counter, Auditorium Movies, Event Rentals and Gallery Security. In FY11 the department was made up of 3 full time and 12-20 university student and temporary employees depending on the season. This year our workforce consisted of 34 people. Visitor Services total departmental income this year was \$1,282,139. After expenses, that left \$485,000, or 38% of the department's income, to help support museum programs for education, exhibits, and collections.





Research & Collections



Archaeology

The Archaeology Department completed multiple field and collections based projects during this fiscal year. Field work focused primarily on two regions: the Brooks Range in northwestern Alaska and the Alaska Peninsula/Aleutian Islands. Cooperative efforts with the National Park Service were undertaken in Aniakchak National Monument and Preserve, Kobuk Valley National Park, and Noatak National Preserve and entailed regional surveys and specific site evaluations.

Members of the department documented several new sites on previously unsurveyed land along the Kobuk and Koyukuk Rivers in northern Alaska. On the Alaska Peninsula, several new village sites that date between 500 and 2,000 years ago were documented, along with testing and radiocarbon dating a previously known site to 4,700 years ago, making it the oldest known site in the region to date. A foray to Akutan Island, with the assistance of the USGS and support from the Geist Fund, documented a source of obsidian known to the residents of the Aleutian Islands for more than 8000 years, but virtually unknown to archaeologists. With a grant from the National Science Foundation, team members conducted excavations at the Raven Bluff site in cooperation with the Bureau of Land Management. The site contains the oldest faunal remains from Arctic Alaska and documents an 11,000 year history of hunting the Western Arctic Caribou Herd. And for a second season, six high school students joined the archaeology department on an excavation in Yukon-Charley Rivers National Preserve as part of UAF's Alaska Summer Research Academy. Excavations were continued at a historic Han Athabascan cabin located in the Coal Creek historic mining district.

Collections-based work focused on rehousing older collections to modern curatorial standards and digitizing catalog records in order to ensure long term preservation of our world class research collections. We received an interesting donation—the “seal stone”—thought to have originated on Shemya Island. It is perhaps the first known petroglyph from the Aleutian chain, although some mystery surrounds its provenance. We also received collections from Bureau of Land Management lands, and US Forest Service lands, among the latter are collections from the Hidden Falls site, which is one of the oldest known archaeological sites in Southeast Alaska.



OPPOSITE, FROM TOP *Arctic Night Mask* by Moses Wassilie. Purchased with the generous support of the Rasmuson Art Acquisition Initiative. | UAMN entomology alpine zone field site.

THIS PAGE, FROM TOP Petroglyph from Shemya Island, Aleutian Archipelago. | An extreme low tide near Kake in Southeast Alaska in May revealed the tail of a thalattosaur fossil. From left, Eugene Primaky, the finder of the fossil, Tongass National Forest geologist Jim Bachtal, and UAMN Earth Science Curator Pat Druckenmiller stand at the excavation site.

Earth Science

This year was a strong period of growth for the Earth Science Department. Curator Pat Druckenmiller participated in his fifth collaborative field season in Svalbard with the Natural History Museum in Oslo. The field season produced several important new skeletons, including a new species of long-necked plesiosaur. Graduate student Kevin Stack nearly completed his description of a new dinosaur from the Talkeetna Mountains, and PhD student Hiro Mori continued his research on duck-billed dinosaurs from the North Slope.

With support from the National Park Service, the Fish and Wildlife Service, and the Bureau of Land Management, employees Amanda Hanson, Naomi Morris, Carrie Yardley, and Kevin Stack continued the daunting work of electronically cataloging our collection into the database Arctos. The department received a major boost to the effort in February with an award from the National Science Foundation Biological Research Collections program. The \$392,000 award will be used to purchase and install a new mobile storage system for our collection, as well as database and photograph all of the fossil vertebrates in the collection. The funding will also support one graduate student and several undergraduate student employees.

In August 2010, members of the department returned to the Colville River on the North Slope to excavate dinosaur material from the “Dinosaur Tunnel” on the National Petroleum Reserve - Alaska. They successfully removed many hundreds of dinosaur bones from the Liscomb Bonebed and developed new excavation techniques for excavating fossils in permafrost. The Bureau of Land Management provided critical in-kind support to our crew in the field. In December 2010, the museum completed work on a 20-minute mini-documentary featuring field research on Alaska’s oldest dinosaur fossils on the Alaska Peninsula. In March of 2011, the National Geographic Society premiered a one-hour documentary on the Svalbard research entitled “*Death of a Sea Monster*”. In April 2011, undergraduate student Carrie Yardley presented her research on a small ichthyosaur from Southeast Alaska at the Undergraduate Research Conference. And in June of 2011, the team worked with Tongass National Forest geologist Jim Bachtal and a USFS crew to remove a rare marine reptile known as a thalattosaur in Southeast Alaska. Based on its preservation and what can be seen in the rock, this new specimen appears to be one of the most complete specimens of the group ever uncovered.



Entomology

Thanks to the efforts of collaborators, hardworking lab technicians and graduate students, the Entomology Department concluded its most productive year yet. Jill Stockbridge started her master's program, while Brandi Fleshman and Joey Slowik neared the completion of theirs. The lab surpassed 100,000 cataloged specimens – a rapid growth from fewer than 2,000 in 2006. Field work was conducted throughout Alaska: on Prince of Wales Island, in the alpine zones of Southeastern Alaskan mountains, the Nogabahara Dunes of Alaska, and on the Aleutian Islands (Attu, Kasatochi and many others). The department produced four publications and participated in five presentations at as many meetings.



The collection is now partially cataloged and is growing rapidly thanks to a Biological Research Collections grant proposal awarded by the National Science Foundation to improve the UAMN Insect collection and make it the resource it has the potential to become. Curator Derek Sikes is overseeing the transformation of the collection from old and haggard to modern and efficient. Having a world-class resource for the Alaskan insect fauna is critical to strengthen and enable this formerly neglected component of biological research in Alaska.

The collection, as measured by cataloged specimens, has grown enormously over the last five years, particularly in the last year. On June 14, 2011 the team surpassed a major milestone. As a result of a large donation of bumblebee voucher specimens from the MS thesis work of Rehanon Pampell, they achieved 100,000 records. However, many tens of thousands of uncataloged specimens remain in the backlog of historical and unprocessed materials. The collection probably contains over 200,000 specimens altogether. The museum has a complete inventory of all the *species* in our collection (n=2,098).

Although the majority of specimens cataloged into the UAMN insect collection were collected by collaborators, volunteers, donors, and independent researchers, the curator has collected over 23,520 now cataloged specimens, or lots, from 439 Alaskan collection sites — 4,930 of these specimens were during the reporting period from 111 Alaskan collection sites. Coleoptera, Odonata, and Hymenoptera are the most well-curated groups. Lepidoptera are being sorted currently (2011). Diptera is the largest group and currently in the greatest need of attention.

Ethnology

The Ethnology and History Department undertook a number of collaborative projects and continued its long history of facilitating significant donations to the collection by private individuals. New acquisitions included the 61-object collection made by the Rev. William A. Thomas from early 20th-century Point Hope, and donated by grandson Steve Thomas, formerly of PBS's *This Old House*. A locally-assembled collection of mid-20th century artifacts from across Alaska came in the form of a donation from former Moose Pass resident Mary Taylor. Three beautiful and innovative contemporary works were purchased through the generous support of the Rasmuson Foundation Art Acquisition Initiative: Arctic Night Mask by Moses Wassilie, and White Hunting Hat and Dark Hunting Hat, both by Mike Wassilie.

Work began on the nationally-significant Kolmakovsky Redoubt collection (artifacts in the archaeology collection and the blockhouse in the history collection) under the Save America's Treasures grant, awarded during FY1. The blockhouse was disassembled in November and taken off-site for the rehabilitation work during the winter. In May 2011, it was returned to its new foundation, near the northeast corner of the museum's parking lot. Work on the roof continued over the summer months, with the completion occurring in the fall of 2011.

Another collaboration with the archaeology department moved forward through a Native American Graves Protection and Repatriation Act documentation grant. Ethnology student Charles Hilton completed the inventory and database update of approximately 9,000 ethnological objects reported in 1993 and started the process of creating new reports that will be sent to each of the 229 federally recognized tribes in Alaska.

Collections Manager Anglea Linn spent a good deal of the first part of the fiscal year working as the co-chair of the local host committee for the annual joint meeting of Museums Alaska and the Alaska Historical Society. Over 225 museum professionals and historians gathered at the Wedgewood Resort for four days of sessions and workshops. Linn also expanded her outreach activities with the creation of *AkEthnoGirl*, a blog about working in the collections departments at the museum, highlighting some of the daily activities from the basement. Finally, the department hosted an intern from Washington State University. Anthropology student Briana Brenner spent six weeks working in the lab learning collections management and preventive conservation skills while researching and creating an exhibit installed at the UAF Rasmuson Library about the mammals of Alaska.



Alaska Center for Documentary Film

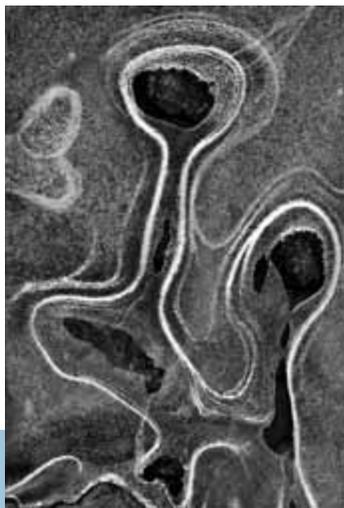
FY 2011 was a very productive year for the Film Center. The team released several new films, one on the work of Alaska composer John Luther Adams, "Strange and Sacred Noise," which premiered in New York City at the world museum festival *Tune In*; two from the Indigenous Global Migration project; and a short film about Alaska poet John Haines. With a grant from the National Film Preservation Foundation, Curator Leonard Kamerling began a multi-year project to restore the original elements of the collection's best known film, "The Drums of Winter."

The Film Center's research partnership with San Francisco State University continues to be productive. The collaborative project on indigenous global migration is in full swing. The third and most comprehensive film, "Changa Revisited," will be completed in 2012.

Fine Arts

The Fine Arts Department, along with the rest of the museum family, mourned the passing of Barry McWayne, photographer and retired coordinator of Fine Arts. He died on Aug 8th 2010. As coordinator of the Fine Arts Collection at UAMN until 2007, he was responsible for the development of the collection, in particular the superb collection of Alaskan photography.

During this fiscal year, Anne Wyman and Jeffries Wyman Jr. donated to the collection 17 watercolors painted by their father Jeffries Wyman during his stay in Anaktuvuk Pass in the summer of 1951. Collections Manager Mareca Guthrie taught a new course on the history of pigments. Combining art history and studio practice, students learned about the origins of pigments and how innovations in artist's materials resulted in new kinds of art. Students put what they learned into practice by making their own paints using historic recipes.



OPPOSITE, CLOCKWISE FROM TOP New spider species for Alaska (*Neoscona oaxacensis*) donated by local resident J. Frone. | Ethnology & History student Leah Bright works on objects from the Thomas collection. | UAMN Curator of Entomology Derek Sikes conducts field work in the Kenai National Wildlife Refuge.

THIS PAGE, CLOCKWISE FROM ABOVE Barry McWayne (portrait by Clark Mishler) and McWayne's *New Ice - Ballaine Lake*. | UAMN Fisheries Curator Andres Lopez collects tissue samples on the Selawik River. | The Selawik watershed. | *Platichthys stellatus* (starry flounder) from the Selawik River.

Fish & Marine Invertebrates

Members of the Fish & Marine Invertebrates Department, in collaboration with students and personnel from the University of Alaska Fairbanks and the US Fish and Wildlife service, are conducting a survey of whitefish systematics and population genetics. The staff is also working on documenting the traditional ecological knowledge of amphibians and reptiles in southeastern Alaska and the effects of climate change on subsistence fishing practices in Northwest Alaska.

Curator Andres Lopez reports the first confirmed specimen of Northern wolffish from the Alaskan Arctic coast and an Atka mackerel that represents one of the most northern records for the species. The department also supports several research projects. Matthew Campbell, a Biology M.S. student, is studying the phylogeography and population genetics of Alaska blackfish, and Robert Marcotte is studying the evolutionary relationships among whitefishes in Alaska.



Herbarium

The Herbarium team accomplished much in the last year. Our international collaborations and local partnerships have further solidified the Herbarium (ALA) as a significant collection, focusing on high latitude botany.

Summertime is when herbarium members take to the field, and the team visited many sites throughout Alaska, including the Kodiak Archipelago and several islands in the Aleutian Chain. One of the most exciting trips took staff members to the other side of the Bering Strait. Chukotka is a hotspot of biodiversity in the Russian Far East, one that has particular impact on understanding the affinities of the Alaskan flora. During three weeks in the summer of 2010, Herbarium Curator Steffi Ickert-Bond, Collections Manager and Ph.D. student Jordan Metzgar, and research associate Richard Bond traveled from Nome, Alaska to Provideniya, E. Chukotka, and then further north to the coastal town of Novoe Chaplino, by whaleboat to Lorino and eastward, in a quest to reach the Chegitun River. Funded by the NPS's Shared Beringia Heritage Program and the NSF, the team met up with the Komarov Botanical Institute's Nadja Sekretareva, a botanist with over 30 years of experience collecting in Chukotka, and graduate student Julia Mikhailova. The group collected several hundred plant specimens, including several rare species, which will be used to infer relationships between E and W Beringian plants.

As in previous years, the herbarium team was well represented at scientific meetings in Alaska, the lower 48 states, and internationally. Ickert-Bond fostered new collaborations during her attendance

of the CAFF (Conservation of Arctic Flora and Fauna) 13th Biennial Meeting in Akureyri, Iceland. Together with scientists at the Canadian Museum of Nature, the Natural History Museum of Oslo, ALA is working on a Flora of Arctic Canada and Alaska. ALA scientists and students participated in a total of 19 oral and poster presentations this last year, including a broad range of topics spanning biogeography, floristics, genomics, ecology, and systematics. The team wrote a number of research articles. One of them was featured as a cover story in the International Journal of Plant Sciences. The Herbarium also hosted researchers Dr. Quentin Skinner (University of Wyoming), who is completing his Field Guide of Alaskan Grasses, and Dr. Reidar Elven (Natural History Museum Oslo), who reviewed many taxonomic groups and worked closely with curator emeritus Dave Murray on completing the Panarctic Flora, which is now available online as an annotated, searchable checklist.

Graduate students were productive in their research efforts, securing numerous grants in support of their studies, such as "Floristic composition of Buldir Island" (Monte Garrouette), "Disentangling species in the *Claytonia scammaniana* complex" (Stephany Jeffers), "Systematics and Biogeography of the Fern Genus *Cryptogramma*" (Jordan Metzgar), and "Systematics of *Oxytropis* subsection *Arctobia*" (Zachary Meyers). ALA staff and students also mentored the Rural Alaska Honors Institute (RAHI-II) and numerous outreach activities. To further the use of natural history collections in undergraduate education, Ickert-Bond has joined curators from the Museum of Southwestern Biology (University of New Mexico, PI Joe Cook), the Museum of Vertebrate Zoology (UC Berkeley, PI Eileen Lacey), and the Museum of Comparative Zoology (Harvard University, PI Scott Edwards) to create AIM-UPI, a five-year NSF-sponsored network of museum scientists, collection specialists, undergraduate instructors, and artists dedicated to using museum data to promote undergraduate-level understanding of science.



Mammalogy

The Mammals Collection grew significantly this year, with over 2,300 new specimens. These were the result of ongoing field work throughout Alaska by museum faculty and students focusing on alpine small mammals, as well as collaborative efforts with the U.S. Fish and Wildlife Service, the National Oceanic and Atmospheric Administration, and the Alaska Cooperative Fish and Wildlife Research Unit, among other entities.

Ph.D. student Nick Kerhoulas and Genomic Resources Coordinator Aren Gunderson conducted a latitudinal transect looking for hoary marmots in the mountains from Washington to Alaska. Curator Link Olson and incoming Ph.D. student Jon Martin began a long-term bat inventory and monitoring project with the Alaska Department of Fish and Game that will range from extreme Southeast Alaska to Interior and Southwest Alaska. Kerhoulas, Gunderson, and Olson, together with renowned wildlife photographers Moose and Jake Peterson, traveled to the Brooks Range to photograph and collect specimens of Alaska marmots.

Olson took sabbatical leave during the academic year to spend two months as a visiting environmental scholar at the Yale Institute for Biospheric Studies and the Yale Peabody Museum. A very dedicated group of undergraduate curatorial assistants, technicians, and volunteers under the careful and perpetually cheerful supervision of collection manager Brandy Jacobsen kept the department abuzz with activity throughout the year. Next year promises its own excitement and productivity.

Ornithology

The Ornithology Department staff, students, and research associates produced 18 publications this fiscal year, and the collection grew by 1,500 specimens. Fieldwork took department members to Kodiak, Belize, and the Philippines. Curator Kevin Winker taught a new class on the genomics of speciation. Funding levels are lower than usual due to some declined proposals, but turning that around will be a priority. The positive side is the ability to finish up some prior projects.

The Bird Lab was honored by a visit from Richard Dawkins, the renowned evolutionary biologist, who was very interested in the museum's specimens and the way they are used, including studies in biodiversity and evolutionary and environmental biology. Over lunch, Dawkins led a lively discussion among museum staff and students. In fact, the department has hosted many important visitors over the years, including governors, senators, the Secretary of the Interior, and the Chief Justice of the Supreme Court. The lab is just that interesting! Of course, important researchers and students visit each year as well. Collectively, these visits provide the opportunity to convey to a diverse audience why the bird collection and the research and students that it exists to support are important to society.

Finally, a stellar group of volunteers worked in the department again this year. The staff extends their sincerest thanks to them and to the Friends of Ornithology for their ongoing, critical support.



OPPOSITE, CLOCKWISE FROM RIGHT A team from the herbarium visited Chukotka, Russia and spent time in the field, travelling via this Russian all-terrain vehicle (vezdekhod). | Western arctic shootingstar, *Dodecatheon frigidum*. | UAMN Herbarium Curator Steffi Ickert-Bond examines specimens with colleagues from the Russian Academy of Science, Komarov Botanical Institute. | The Russian all-terrain vehicle made a handy base camp.

THIS PAGE, FROM LEFT Nick Kerhoulas (left) and Aren Gunderson (right) prepare a marmot specimen for the mammal collection. Photo by Moose Peterson. | Brittany McCraw prepares a turkey vulture (*Cathartes aura*) on Halloween in the Bird Lab.

Selected Publications

- AOU Committee on Classification and Nomenclature (one of 12 members). 2010. Fifty-first supplement to the American Ornithologists' Union Check-list of North American Birds. *Auk* 127:726-744.
- Bulgarella, M., M. D. Sorenson, J. L. Peters, R. E. Wilson, and **K. G. McCracken**. 2010. Phylogenetic relationships of Amazonetta, Specularnas, Lophonetta, and Tachyeres: Four morphologically divergent duck genera endemic to South America. *Journal of Avian Biology* 41:186-199.
- E. E. Maxwell and **P.S. Druckenmiller**. 2011. A small ichthyosaur from the Clearwater Formation (Alberta, Canada) and a discussion of the taxonomic utility of the pectoral girdle. *Paläontologische Zeitschrift* (published online 2 May 2011) DOI: 10.1007/s12542-011-0106-0.
- Elven, R., **D.F. Murray**, and H. Solstad. 2010. To arter av kastanjesiv (*Juncus castaneus* og *Juncus leucochlamys*), begge i Europa. *Blyttia* 68: 128-131.
- Erickson, G.M. and **P.S. Druckenmiller**. 2011. Longevity and growth rate estimates for a polar dinosaur: a *Pachyrhinosaurus* (Dinosauria: Neoceratopsia) specimen from the North Slope of Alaska showing a complete developmental record. *Historical Biology* (published online 23 February 2011) DOI: 10.1080/08912963.2010.546856.
- Gibson, D. D.**, S. C. Heinl, A. J. Lang, T. G. Tobish, Jr., and **J. J. Withrow**. 2011. Checklist of Alaska birds, 17th edition.
- Gilbert, C. C., W. T. Stanley, **L. E. Olson**, T. R. B. Davenport, and E. J. Sargis. 2011. Morphological systematics of the kipunji (*Rungwecebus kipunji*) and the ontogenetic development of phylogenetically informative characters in the Papionini. *Journal of Human Evolution* 60: 731-735.
- Guay, P.-J., R. T. Chesser, R. A. Mulder, A. D. Afton, D. C. Paton, and **K. G. McCracken**. 2010. East-west genetic differentiation in Musk Ducks (*Biziura lobata*) of Australia suggests late Pleistocene divergence at the Nullarbor Plain. *Conservation Genetics* 11:2105-2120.
- Hagelin, J. C., M. L. Perry, B. S. Ewen-Campen, **D. S. Sikes**, S. Sharbaugh. 2011. Habitat type is related to nest mass and fledging success of Arctic Warblers. *The Wilson Journal of Ornithology* 122(4): 699-705.
- Hammer, Ø., H.A. Nakrem, C.T.S. Little, K. Hryniewicz, M.R. Sandy, J.H. Hurum, **P.S. Druckenmiller**, E.M. Knutsen, M. Høyberget. 2011. Hydrocarbon seeps from close to the Jurassic-Cretaceous boundary, Svalbard. *Palaeogeography, Palaeoclimatology, Palaeoecology* 306(2011):15-26.
- Hill, E.** 2011. Animals as Agents: Hunting Ritual and Relational Ontologies in Prehistoric Alaska and Chukotka. *Cambridge Archaeological Journal* 21(3):407-426.
- Hill, E.** 2011. The Historical Ecology of Walrus Exploitation in the North Pacific. *Human Impacts on Seals, Sea Lions, and Sea Otters: Integrating Archaeology and Ecology in the Northeast Pacific*, eds. T.J. Braje and T.C. Rick, pp. 41-64. University of California Press.
- Humphries, E. M., and **K. Winker**. 2011. Discord reigns among nuclear, mitochondrial, and phenotypic estimates of divergence in nine lineages of trans-Beringian birds. *Molecular Ecology* 20:573-583.
- Ickert-Bond, S.M.**, and C. Rydin. 2011. Micromorphology of the seed envelope of *Ephedra* L. (Gnetales) and its relevance for the timing of evolutionary events. *International Journal of Plant Sciences* 172: 36-48. (Featured on the cover)
- Johnson, A. B., and **K. Winker**. 2010. Short-term hurricane impacts on a Neotropical community of marked birds and implications for early-stage community resilience. *PLoS ONE* 5:e15109.
- Kamerling, L.** 2010. Isuma: Inuit Video Art. Oral History Review.
- Kamerling, L.** Looking Back: Reflections on 30 years of filmmaking in Alaska. *North by 2020: Perspectives on Alaska's Changing Ecological Systems*, eds. Amy Lovecraft and Hajo Eicken. University of Chicago Press.
- Klicka, J., G. M. Spellman, **K. Winker**, V. Chua, and B. T. Smith. 2011. A phylogeographic and population genetic analysis of a widespread, sedentary North American bird: The Hairy Woodpecker (*Picoides villosus*) *Auk* 128:346-362.
- Lohman, D. J., K. K. Ingram, D. M. Prawiradilaga, **K. Winker**, F. H. Sheldon, R. G. Moyle, P. K. L. Ng, P. S. Ong, L. K. Wang, T. M. Braile, D. Astuti, and R. Meier. 2010. Cryptic diversity in "widespread" southeast Asian bird species suggests that Philippine avian endemism is gravely underestimated. *Biological Conservation* 143:1885-1890.
- McCracken, K. G.**, C. P. Barger, and M. D. Sorenson. 2010. Phylogenetic and structural analysis of the HbA (alpha-A/beta-A) and HbD (alpha-D/beta-A) hemoglobin genes in two high-altitude waterfowl from the Himalayas and the Andes: Bar-headed Goose (*Anser indicus*) and Andean Goose (*Chloephaga melanoptera*). *Molecular Phylogenetics and Evolution* 56:649-658.
- Mousseau, T.*, **D. S. Sikes**. 2011. Almost but not quite a subspecies: A case of genetic but not morphological diagnosability in *Nicrophorus* (Coleoptera: Silphidae). *The Biological Journal of the Linnean Society* 102: 311-333.
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- Rasic, J. T.** 2011. Functional Variability in the Late Pleistocene Archaeological Record of Eastern Beringia. *Explaining Lithic Assemblage Variability Across Beringia*, eds. T. Goebel and I. Buvit. Texas A & M University Press, College Station.
- Reuther, J. D., N. Slobodina, **J.T. Rasic**, J.P. Cook, and R.J. Speakman. 2011. Gaining momentum: the status of obsidian source studies in Alaska and their importance for developing a better understanding of the regional prehistory. *Explaining Lithic Assemblage Variability Across Beringia*, eds. T. Goebel and I. Buvit. Texas A & M University Press, College Station.
- Roberts, T. E., H. C. Lanier, E. J. Sargis, and L. E. Olson**. 2011. Molecular phylogeny of treeshrews (Mammalia: Scandentia) and the timescale of diversification in Southeast Asia. *Molecular Phylogenetics and Evolution* 60: 358-372.
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- Slowik, J.***, **D. S. Sikes**. 2011. Spiders (Arachnida: Araneae) of Saba Island, Lesser Antilles: Unusually high species richness indicates the Caribbean Biodiversity Hotspot is woefully undersampled. *Insecta Mundi* 0177: 1-9.
- Wilson, R. E., M. Eaton, T. H. Valqui, and **K. G. McCracken**. 2010. Ecogeographic variation in Cinnamon Teal (*Anas cyanoptera*) along elevational and latitudinal gradients. *Ornithological Monographs* 67:141-161.
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- Winker, K., J. M. Reed, P. Escalante, R. A. Askins, C. Cicero, G. E. Hough, and J. Bates.** 2010. The importance, effects, and ethics of bird collecting. *Auk* 127:690-695.
- Withrow, J. J.** and Sonneborn, D. W. 2011. Important recent bird records from Attu Island, Alaska. *Western Birds* 42:115-119.
- Museum staff and students are indicated in bold.*

OPPOSITE, FROM TOP Bioblitz 2010 attendees, Juneau, including UAMN Curator of Entomology Derek Sikes (orange jacket). | UAMN Earth Sciences field crew in August 2010 outside the "dinosaur tunnel" (blue tarp) along the Colville River, North Slope, Alaska.

Field Research Sites

Archaeology

Aniakchak National Monument and Preserve
Alaska Peninsula National Wildlife Refuge
Kobuk Valley National Park
Koyukuk National Wildlife Refuge
Noatak National Preserve
Akutan Island (Aleutians)
Snare Creek, Yukon-Charley Rivers National Preserve
Uhler Creek, Fortymile River
Raven Bluff Site, NW AK

Earth Science

Colville River/NPR-A
Southeast Alaska, Tongass National Forest
Svalbard, Norway

Entomology

Agattu
Attu
Bettles
Chowiet Island
Delta Junction
Fairbanks
Galena
Gareloi
Haines
Flower Mountain
Horner Hot Springs, Juneau
Heintzleman Ridge
Kasatochi
Kiska
Nogabahara Dunes, Koyukuk NWR
Prince of Wales Island
South Chilkat Peninsula
Sterling
Suemez Island, Port Refugio

Thompson Pass,
Two Rivers
Valdez
Wosnesenski

Film

Anaktuvuk Pass, Alaska
Tanzania, various Maasai settlements

Fishes & Marine Invertebrates

Denali National Park
Fairbanks
Selawik
Shugnak
Wrangell

Herbarium

Adak Island
Bison Gulch
Buldir Island
Curry Ridge
Donnelly Dome
Eagle Summit
Gareloi Island
Murphy Dome
Old Harbor, Kodiak Archipelago
Sitkalidak Island, Kodiak Archipelago
Standard Creek
Twelvemile Summit
Chegitun River, Lavrentiya, Novoe Chaplino, and Provideniya, Chukotka, Russia

Ornithology

Kodiak, Alaska
Belize
Philippines



Staff Professional Service

Alaska Bird Observatory – Scientific Advisory Council
Alaska Checklist Committee
Alaska Entomological Society
American Ornithologists' Union
Alaska Quaternary Center
American Society of Ichthyologists and Herpetologists
American Society of Plant Taxonomists
Athabaskan Living Cultural Treasures
CINE National Film Festival
Conservation of Arctic Flora and Fauna – Expert Group
Fairbanks Jewish Film Festival
Flora of North America
Journal of Fish Biology – Peer Review

Museums Alaska/Alaska Historical Society 2011 Joint Meeting Host Committee
National Science Foundation – Panel Review
Registrars Committee – Western Region
Society for the Advancement of Chicanos and Native Americans in Science
Society for American Archaeology
Committee on Museums, Collections, and Curation
Society for Visual Anthropology



Gifts to the Collections

The museum's collections have grown through decades of fieldwork and research, careful cultivation, and the generosity of people whose passion for science, culture, and education leads them to support the museum's mission. We are grateful to our donors for their contributions during FY11.

Gifts to Earth Sciences

BLM. logistical and air support
 US Forest Service logistical and air support
 Gary Tainter

Gifts to Education

Leigh Anne Cox Muskox pelt, two beaver pelts, two marten pelts, one wolverine pelt, and a part of a caribou pelt

Gifts to Entomology

Total 22,256 specimens or lots donated from people or agencies, not including UAMN Insect Collection staff or students.

W. Scott Armbruster Pollinators from Armbruster research / voucher collection

Robert Armstrong Aquatic beetle from R. Armstrong's backyard in Juneau for ID

Matthew Bowser, USFWS Two sawflies and one carabid collected by D. Collet for KNWR; and spiders

Mike Brown, USFS Lethocerus sp. belostomatid from Ketchikan, new record for Alaska

Roger Burnside AK, DNR Scolytine specimens for imaging

Tina Buxbaum MS thesis voucher specimens; pollination of *Vaccinium uliginosum*

Andrew Cline Nitidulidae species previously lacking in UAMN collection

Dominique Collet Misc. Hemiptera and Coleoptera

Tim Craig, USFWS Kanuti NWR terrestrial arthropods

Rod Crawford Misc. insects from Juneau ice fields, collembola from 60 mi S of Barrow, and collembola from Lituya Bay; and vials of misc. AK hexapods

Chris Denker *Semioscopis inornata* Walsingham det. Ferris, from Haines; Chris indicated large numbers were emerging from overwintering sites and was worried it might be invasive

Brandi Fleishman, USDA ARS Spider specimens from USDA ARS trapping efforts on CRP lands, interior Alaska

Jennifer Frone large (~4cm legspan) male spider for ID

Robert Gerlach large (1cm) lice from a bald eagle, *Laemobothrion vulturis*, new record for Alaska

Glenn Hollowell, ADFG Possible bedbug for ID

John Hudson, USFWS Kanuti NWR Odonata collected in Kanuti and misc. AK sites; and elmids from Prince of Wales Island, AK

Curtis Knight, ADA Agyrtid specimen, broken, in alcohol, new species for UAMN

Stephen O. Macdonald Misc. inverts from pitfalls run in SE AK, incl. islands around Prince of Wales

Mogens Nielsen Voucher specimen ants from Nielsen, M. G. 1987. The ant fauna (Hymenoptera: Formicidae) in northern and interior Alaska: a survey along the trans-Alaskan pipeline and a few highways. *Entomological News* 98 (2): 74-88

Alberto Pantoja, USDA ARS *Bombus* specimens from Rehanon Pampell's MS thesis work (grad 2011) at UAF, Department of Natural Resources; and misc. by catch from USDA ARS sampling

Klaus Renner AK carabids

Kurt Welsler Potential hobo spider (not a hobo, is *Callobius* sp.) for ID

Gifts to Ethnology & History

Margaret Blackman Two Anaktuvuk Pass masks

John R. Bockstoce Eight pieces of Inupiaq and Inuit clothing

Zorro Bradley Estate
 (Pat Colbourne) Soapstone Dish

Wanda Chin and Terry Dickey Collection of 39 historic items

Bonnie Dinkel Two items made by Lydia Fohn-Hansen

Estate of Blanche Dodds Kovarik /
 UA Foundation Six ivory carvings

Mary Taylor Collection of 27 ethnological items

Stephen Thomas Collection of 61 objects obtained by Rev. W. A. Thomas in Point Hope, ca. 1914-1926

George and Sandy Wagner Two historic Joe Vogler signs

Candace Waugaman Nine historic gold rush era board games and six historic artifacts, including a chair used by President Harding in 1923

Gifts to Fish & Marine Invertebrates

Point Stephens Research Specimens collected and examined by Catherine Mecklenburg and colleagues for syntheses of Alaskan and Arctic fish diversity

Gifts to Herbarium

Ron Abbott 60 vascular plants from Colorado

Olga Afonina,
 Komarov Botanical Institute (LE) 110 bryophytes

Chiska Derr Collection,
 U. S. Forest Service 1433 lichens from Southcentral Alaska

Lynn Gillespie,
 Canadian Museum of Nature 261 Canadian vascular plants

Gough Collection 927 lichens from Colorado, Alaska, and Antarctica

Kenai National Wildlife Refuge
 Natural History Museum,
 Copenhagen 50 Greenland lichens

Dennis Waters 1 lichen (new state record)

Gifts to Mammalogy

Specimens from these groups and individuals: Alaska Department of Fish and Game (Lori Quakenbush, Anna Bryan, Tom Seaton, Thomas McDonough, Stephen Lewis, Kimberlee Beckmen); Alaska SeaLife Center (Anne Hoover-Miller, Robert Walton); Alaska Salmon Board (Bill Lucey); National Marine Fisheries Service (Barbara Mahoney); US Fish and Wildlife Service (Dave Roseneau, Steve Ebbert, Kristin Worman, Elizabeth Jozwiak, Susan Savage); Andy Baltensperger, Casey Bickford, Peggy Birkenbuel, Kent Bovee, Kathy Burek, Kyle Campbell, Brad Griffith, George Happ, Cody Johnson, Alan Jones, Will Newberry, Kate Savage, Ken Severin, Gay Sheffield, Derek Sikes, Kristin Simac, Dave Sonneborn, Mark Weisenbeck, Jack Whitman, and Jack Withrow.

Gifts to Ornithology

Christian Dau
 Heinrich Springer



LEFT Watercolors by Jeffries Wyman from 1951 were donated by Anne Wyman and Jeffries Wyman Jr., including "Elijah Kakinya using his spotting glass to look for caribou" and a portrait of Elijah Kakinya.

OPPOSITE, FROM TOP Christopher Quist (far left) of Diving Duck Coffee offered a coffee roasting demonstration for museum members at a March 2011 event catered by Julia's Solstice Cafe. | "Unknown 21st Century Family" by Sheryl Maree Reily.

Development & Membership



Seventy percent of the museum's budget comes from sources other than the state. That makes support from business partners, donors, and members critical to our mission. The Fairbanks Daily News-Miner, Flint Hills Resources, Totem Ocean Trailer

Express, and Wells Fargo continued to serve as museum partners in FY11, along with more than 650 members who enjoyed free admission to the museum and a discount at the Museum Store, along with other benefits.

Several of our fundraising efforts revolved around our exhibit, *Coffee: The World in Your Cup*. The museum's annual spring fundraiser, the Chocolate Bash featured *Chocolate, Coffee, Cordials & Formals*. The April event raised over \$16,000 for the museum's endowment fund. The North Pole Coffee Roasting Company was a major sponsor by providing a free cup of coffee with each

admission. In addition, the staff planned a special member event that featured a coffee roasting demonstration by Diving Duck Coffee, catered by Julia's Solstice Cafe.

The *Power Play* exhibit was another example of local sponsors pulling together to create a unique experience. Golden Valley Electric Association and the UAF Cooperative Extension Service joined the Alaska Center for Energy and Power as major sponsors. This homegrown exhibit united the talents and resources of local businesses, university research centers, and the Alaska energy community.

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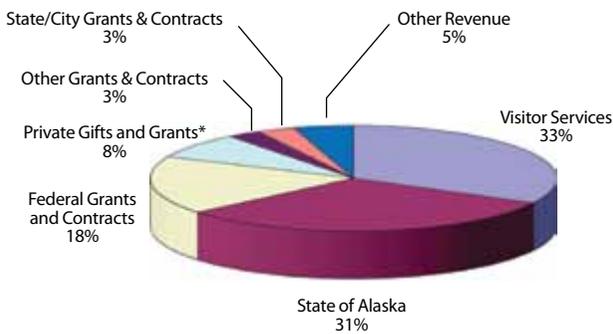
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A. Sudha Naidu
Roland Nail
David and Carolyn
Nethken
David Newman and
Uma Bhatt
Chi K. Nguyen

Christopher Nye and
Anna Plager
Kate Ripley and
Brian O'Donoghue
Lee and Russell O'Hare
Gareth O'Neil
Ruth E. O'Rourke
Daniel and Rita Osborne
Danielle and Paul Page
Philip P. Patterson
Anthony and Shalome
Perkins
Patricia and Robert
Perkins
John Perreault and
Genevieve Johnson
Perreault
Thomas Phillips and
Karen Christiansen
Barry Whitehill and
Patricia Picha
Jim and Jan Plaquet
Robert and Marjorie
Poggas
Andree and Denis Porchet
Wynola J. Possenti
Charles V. Pratt
Steven and Alice Rast
Martha K. Raynolds
Sheryl Reily and
Geoffrey Orth
Jack and Edith Reisland
Bill Rimer and Susan Hills
John and Ann Ringstad
Larry and Cathy Roberts
John M. Roberts
James Rogan and
Molly Leahy
Richard and Debra Rogers
Tonya and Jonathan Rose
Barbara G. Rudio
Kenneth Russell and
Laurel Devaney
David Sala and
Janet Thompson
Jon and Mari Sallstrom
Kenneth Sassen
Steve and Stacey Schaffer
Ann-Lillian Schell
Thomas Tauber and
Grace Schuler
Josephine and Richard
Scott
Dolores J. Sczudlo
David and Georjean
Seeliger
Patricia and Stanley
Senner
Keith and Barbara Severin
Fred and Anna Marie
Shulski
June Siegrist
Derek and Melissa Sikes
Steven Singleton and
Natalie Shimonek
Montie and Lynn Slusher
Wallace Smith and
Patricia Dyer-Smith
Edward and Kelley Smith

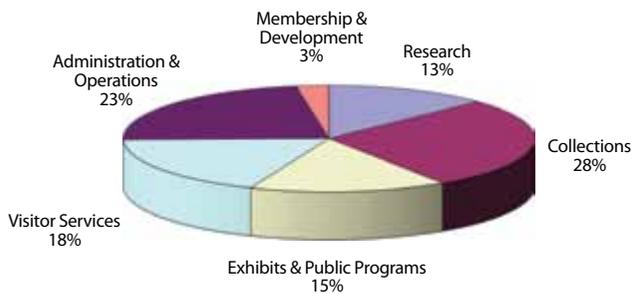
Walter and Babette
Sonneborn
Vikas and Sushma
Sonwalkar
Theresa Y. Soutiere
Robert and Susan Spahn
Dorothy Stella
Robert and Judith Sterns
Mark M. Stevenson
Gretchen and Glen
Straatsma
Ryan and Jamie Straatsma
Cynthia A. Stragier
Susan F. Sugai
Susan K. Swenson
Daniel and Ann Swift
Carl Tape and
Elisabeth Nadin
Robert and Ingrid Taylor
JB Taylor-Furman
Tedin/Ward Building
Account
Rebecca and Richard
Theakston
Valerie M. Therrien
Suzanne S. Thielke
Mary E. Thorne
Mike and Patricia
Thurman
Debra Triplehorn
Eric Troyer and
Corrine Leistikow
Robert L. Usibelli
Gus B. van Vliet
Renate A. Wackerbauer
Daniel and Penelope
Ward
Marjorie Ward and
Marlys Tedin
Norman and Shelly
Warden
Denise and Mark Wartes
Mary Lou and
Walter Weese
Ione and Christopher
White
Gayann White
Kenneth Whitten and
Mary Ruth Zalar
Susan M. Will
Paulette M. Wille
Thomas Zimmer and
Susan Willsrud
Kevin Winker and
Rose Meier
Frederick E. Winker
Nadine E. Winters
James Wolfe and
Carol Hogins-Wolfe
Marguerite Cook
Zabriskie
Judy and Howard Zach
Steven and Helena
Zimmerman
Christopher and D. Jane
Zimmerman
Rebecca and Jeff Zuhlke

Financial Summary

INCOME	FY11
Visitor Services	\$1,389,469
State of Alaska	\$1,319,746
Federal Grants and Contracts	\$756,360
Private Gifts & Grants	\$337,154
Other Revenue	\$201,629
State/City Grants & Contracts	\$126,801
Other Grants & Contracts	\$113,022
Total income	\$4,244,181



EXPENSE	FY11
Collections	\$1,184,402
Administration & Operations	\$967,370
Visitor Services	\$782,473
Exhibits & Public Programs	\$655,826
Research	\$544,538
Membership & Development	\$109,572
Total expenses	\$4,244,182



* Note: Revenue from museum memberships, bequests and other private donations are held and managed by the University of Alaska Foundation and only appear in the museum's financial summary as those funds are transferred to the museum's spending accounts. For a detailed listing of the museum's private support, please refer to the Donors of Record listing on page 9.

Grants & Contracts*

Alaska Department of Fish & Game	
Terrestrial Arthropods Responses (Derek Sikes)	\$82,325.95
Systematics of Hoary Marmots (Link Olson)	\$48,039.00
AK Insect Pollinators: Occurrence (Derek Sikes)	\$16,664.50
Arthropods in Alpine-Subalpine (Derek Sikes)	\$7,554.00

Institute of Museum and Library Services	
Providing Access to Images of Alaska's Botanical Heritage (Stefanie Ickert-Bond)	\$96,705.00

National Park Service	
Chignik-Meshik Archaeological Survey (Scott Shirar)	\$109,412.00
Kobuk Valley Sand Dunes: Arch/Ethno (Scott Shirar)	\$98,447.00
Vanished Villages: Late Prehistoric (Scott Shirar)	\$63,474.00
Backlog Cataloging-NPS Collections (Jeffrey Rasic)	\$58,000.00
Archaeology & Museum Management (James Whitney)	\$37,470.00

National Science Foundation	
Critical Upgrades to UA Museum Earth Science (Patrick Druckenmiller)	\$309,197.00
RCN: AIM-UP! Advancing Integration of Museums into Undergraduate Education (Stefanie Ickert-Bond)	\$34,979.00
Paleoindian Adaptations in Eastern Beringia (Jeffrey Rasic)	\$34,930.00
REU Euteleost Tree of Life - Travel (Andres Lopez)	\$5,933.00

Rasmuson Foundation	
• "Arctic Night Mask" by Moses Wassilie (Angela Linn)	\$5,800.00
• Owl Mask by Kathleen Carlo (Mareca Guthrie)	\$5,600.00
• "Unknown 21st Century Family" by Sheryl Maree Reily (Mareca Guthrie)	\$5,500.00
• White Hunting Hat by Mike Wassilie (Angela Linn)	\$3,000.00
• Dark Hunting Hat by Mike Wassilie (Angela Linn)	\$2,300.00
• Photographs by Barry McWayne (Mareca Guthrie)	\$1,215.00
• Zhikhartsev watercolor (Mareca Guthrie)	\$960.00

USDA Forest Service	
Hidden Falls Archaeological Collections (James Whitney)	\$15,000.00

This list reflects new grants and contracts awarded during the FY11 fiscal year only. It does not include multi-year grants or contracts awarded in previous years.



Nome residents explore the iGlobe, a portable device that displays high definition, moving images of the earth onto a spherical screen.



Students

Archaeology

Shelby Anderson
Fawn Carter
Sam Coffman
Roberta Eastwood
Aimee Ely
Sarah Ficarota
Stephan Heidenriech
Conner Hite
Allie Pelto
Jessica Petersen
Devon Reid
Norbert Wasilik

Earth Sciences

Hiro Mori
Kevin Stack

Education

Amy Rath
Timothy Sharp

Entomology

Casey Bickford
Carolene Coon

Sarah Huguet
Whitney Junker
Kelly May
Sarah Meierotto
Sayde Ridling
Cassidy Scholar
Joey Slowik

Ethnology

Briana Brenner
Leah Bright
Emily Chagluak
Charles Hilton
Exhibition & Design
Eric Henderson
Yasunari Izaki

Film

Adrina Knutson

Fishes & Marine Invertebrates

Thaddaeus Buser
Matthew Campbell
Rachel DeWilde
Emily Lescak

Robert Marcotte
Courtney Nichols
Veronica Padula
Joshua Ream

Herbarium

Marina Anderson
Taylor Beard
Kathleen Chan
Britney Casperson
Robert Doering
Monte Garroutte
Stephany Jeffers
Courtney-Jay Knowles
Jordan Metzgar
Zachary Meyers
Celia Miller
Andrea Zupanc

Mammalogy

Kyndall Hildebrandt

Ornithology

Kyle Campbell

ABOVE All-star team of entomologists in front of Skilak lake on the Kenai National Wildlife Refuge June 29, 2011. (from left Dr. Dave Wartinbee and assistant, Dr. Derek Sikes, Dr. Dan Bogan and assistant, and Matt Bowser)

BELOW Docents during fall training for school field trip program. Back row from left: Jim Deininger, Leslie Swenson, Joyce Potter, Marcella Hill, Jack Grandfield, Kathleen Brennan, Al Knapp. Front row from left: Maria Gavora, Maggie Billington, Chrystal Abair, Eugenia Palma.



Research Associates and Affiliates

Archaeology

Claire Alix
Julie Esdale
Erica Hill
Howard Smith

Ethnology

Ann Fienup-Riordan
Hiroko Ikuta
Steve Jacobson
Lawrence Kaplan
Michael Krauss
Patricia Partnow
Katrin Simon

Glen Simpson
Candy Waugaman

Entomology

James Kruse
Steve Peek
Ken Philip

Film

Peter Biella
Takashi Sakurai

Fine Arts

Glen Simpson
Kes Woodward

Fishes & Marine Invertebrates

Nora Foster
Herbarium
W. Scott Armbruster
Al Batten
Bruce Bennett
Richard Bond
Reidar Elven
Sarah Fowell
Gary Laursen
Robert Lipkin
Cynthia R. Meyers

Barbara Murray
Carl Roland
Mary Stensvold
Stacy Studebaker
Donald A. Walker
Ornithology
Johannes Erritzoe
Daniel D. Gibson
Kevin McCracken
Rose A. Z. Meier
Matthew Miller
Christin Pruett
Heinrich Springer

Visitor Services Employees

Claire Ashmead
Marcus Avugiak
Brenae Baker
Timothy Bouta
Codi Burk
Regan Criswell
Chelsey Curry
Lance Ellanna

Jed Ellis
Nicholas Evans
Duncan Fraiser
Mari Freitag
Ashley Fried
Corbin Gieck
Anne Goering
Brittany Jackson

Lara Johnson
Jeremy Larson
Kevin Legerismith
Nona Letuligasena
Jessica McBrien
Holly Machida
Ashley Paris
Rumi Robinson

Belinda Romero
Kate Sanders
Tanya Shostsik
Morgan Simpson
Jake Sirevaag
Laura Webster
Kristen Wertanen
Ming Zhu

Volunteers

Archaeology

Lori Hansen
Steve Lanford
Allison Ward

Earth Science

Will Hutto
Nicole Klein
Kelly May
Naomi Morris
Kevin Stack

Education

Jessica Beecher
Missy Corrigan
Elizabeth Cruikshank
Livia Cruikshank
Lorena Edenfield
Marina Ellana

Cliver Erickson
Kelly Gitter
Cody Hampey
Emily Hampey
Jess Hampey
Molly Hautman
Krystal Hawkes
Lisa Hay
Keiko Herrick
Ken Phillips
Caitlyn Pickett-Bowell

Laura Ray
Ellie Richter
Mariah Rose
Theresa Rose
Zach Rose
Elizabeth Anne Smith

Lisa Smith
Katlian Stark
Tumi Traustason
Entomology
Alexis Bystedt
Steve Peek
Ken Philip
Catherine Schroeder
Mary Wyatt

Ethnology

Camilla Kennedy

Exhibition & Design

Steve Martz

Film

Ira Hardy
Takashi Sakurai
Kathy Turco

Herbarium

Al Batten

Mammalogy

Jedediah Ellis
Takae Nakajima
Magali Vincent

Ornithology

Emery Bovard
Luke DeCicco
Steve Heint
Sarah Howenstein
Brittany McCraw
Joe Morris
Takae Nakajima
Margaret Oliver
Michael Schwitters
David Sonneborn

Docents

Chrystal Abair
Bill Barnes
Maggie Billington
Kathleen Brennan

Ed Callaghan
Pat Cariati
Leigh Anne Cox
Jim Deininger

Maria Gavora
Barbara Gorman
Jack Grandfield
Marcella Hill

Janet Johnson
Albert Knapp
Eugenia Palma
Leslie Swenson

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