



UNIVERSITY OF ALASKA

MUSEUM OF THE NORTH



FY10 ANNUAL REPORT 7.2009–6.2010



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 Diebel, Museum Director

Administration

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

Advancement & Marketing

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Archaeology

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

Communication

Kerynn Fisher, Manager

Earth Sciences

Patrick Druckenmiller, Curator*
Amanda Hanson, Curatorial Assistant

Education

Laura Conner, Director
Jennifer Arseneau,
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Peggy Hetman,
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Roger Topp, New Media Producer

Entomology

Derek Sikes, Curator*
Jozef Slowik, Curatorial Assistant

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

Ichthyology

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Mammalogy

Link Olson, Curator*
Brandy Jacobsen, Collection Manager
Dusty McDonald, Programmer

Operations

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Ornithology

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Jack Withrow, Collection Manager

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Ron Inouye

The Year in Numbers

Total attendance: 77,923

Number of free events: 7

Attendance at free events: 3,050

Accessions: 269

New specimens: 20,412

Outgoing loans: 134

Detail from *Fence n' Fold*, sculpture by retired UAMN exhibits coordinator Wanda Chin. Donated by Ron Inouye.

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

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Cover, top: Eric Sargis, Nick Kerhoulas, and Lucy Mullin scout for hoary marmots in the White Mountains (Link Olson).
Left: *Therorhodon glandulosum* (Glandular Rosebay) Seward Peninsula, AK (S. Ickert-Bond). Center: main staircase, Museum of the North (Patricia Fisher). Right: A shift of Youth Volunteers smile after spending time journaling (Christina Miller).



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The University of Alaska Fairbanks is accredited by the Northwest Commission on Colleges and Universities.

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From the Director



Dear Friends and Supporters,

I arrived in Fairbanks in September 2009, thrilled to start my new life as a museum director in a place I had only briefly visited for an interview. This was an improvement over my last big move from Florida to New Zealand, with only a phone interview and pictures of the country to guide me. Still, I had no idea

what 40-below temperatures would feel like, what extreme light swings and moose in the yard would look like, whether driving on ice would be something I could learn. The most frequent question asked of me since then has been: Why would you move from a beautiful country like New Zealand to Fairbanks? The answer is both simple and complex – the museum itself.

The University of Alaska Museum of the North sits within a vibrant and distinctive university community. Its mission is one of research, collecting and teaching. The museum shares its knowledge through outreach with local, national and international visitors. A stunning building houses the collections. I wanted the opportunity to guide the museum to becoming a true community anchor institution – a place that is critical to the quality of life. This vision is in strong alliance with the members of the American Association of Museums. UAMN's strength is that it is at the nexus of Arctic science, art and culture. We can use these connections to create new standards for all museums in the field of community engagement, such as creating programs that train the workforce of the future.

FY09 was a year of many joint partnerships and research projects. Diverse field work research focused on historic cabin sites, Alaska arctic dinosaurs, a newly-erupted volcanic island, the Alaska Range, the Kobuk River, Norway and the Philippines. Partnerships with museums included the Simon Paneak Memorial Museum at Anaktuvuk Pass, Fountainhead Antique Auto Museum in Fairbanks, the Yale Peabody Museum, the Field Museum in Chicago, the Royal Tyrrell Museum of Paleontology, and the University of Oslo Natural History Museum. Additional working partners included agencies like the

Bureau of Land Management, the Gates of the Arctic National Park, US Fish and Wildlife Service, Alaska Department of Fish & Game, Kanuti and Selawik National Wildlife Refuges, the Morris Thompson Cultural and Visitor Center, Duke University, UC Berkeley, Harvard University and the New York Botanical Garden. These projects collectively trained many students in fieldwork skills and techniques, resulted in significant collections of specimens (e.g. a small rare ichthyosaur and a wolfish), documented plant and animal distributions in the Arctic, and strengthened networks with many Alaska communities.

During this year, the museum also received a significant acquisition in the Vogel Collection from the National Gallery as part of its 50/50 project (50 works for 50 states). Our education team reached over 3000 Fairbanks-area students and organized a variety of family-focused special events. The exhibitions team designed four special exhibits that focused on Alaska artists, new works and acquisitions, climate change and images from the Alaska Satellite Facility, as well as several outdoor exhibits with the UAF facilities and new gallery installations. After 30 years of service to the museum, exhibit designer Wanda Chin retired in October. She received many honors recognizing her work at the museum, including the 2009 Western Museums Association Director's Chair Award and the 2009 Governor's Awards for Arts and Humanities in the category of arts advocacy.

Our visitor services team continues to get high marks from our guests for innovations like offering a single movie pass and more daily viewings. FY09 was a true economic challenge, in part because of a significant downturn in the economy and its effect on the tourism market, donations, and state and federal funding. Even with our diverse revenue stream, the museum certainly felt the pinch. We have re-grouped, re-focused and re-tooled at many levels, emerging as a lean but highly talented team. With the support of the university, community and state, we look forward to thriving despite this adversity.

Carol E. Diebel

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Public Programs



Exhibits

During FY10, the museum designed and presented four special exhibits:

Ascension: Exploring the Art of Denali — Denali National Park has long been a natural source of inspiration for artists and scientists. This exhibit displayed diverse stylistic art forms from thirteen of the Park's artists-in-residence, along with additional works from the museum's collections. The subject matter was the park's natural history and its complex ecosystems. Artists represented included Jon Van Zyle, Kesler Woodward, Rochelle Dowdy, Ree Nancarrow and others. The exhibit was developed with Guest Curator Annie Duffy from Alaska Geographic and the staff at Denali National Park.

A Gathering of Gifts: Relationships That Build Our Collections — New additions showcased the diverse relationships that help expand the museum's research collections. Featured were the donors, the partnerships and the fieldwork that helped the museum acquire an Asian elephant, a passenger pigeon, artifacts from one of Alaska's oldest archaeological sites, new works by contemporary Alaskan artists and other unique specimens. The exhibit highlighted how philanthropy and the museum's national and international reputation support growth in the cultural and scientific collections.

Then and Now: The Changing Arctic Landscape — Our planet is warming, and the proof is in the Arctic. Glaciers are shrinking, permafrost is thawing and shrubs are advancing into the tundra. The exhibit *Then & Now* (inspired by the UA Press book *The Changing Arctic Landscape*) dramatically illustrated the changing planet by pairing old and new photos of the same landscapes, showing how the arctic has changed over the past century. Personal narratives from pioneering Arctic researchers and Alaska Natives complemented the photos to help visitors understand the impact of climate change on the Arctic and what these changes mean for the world in which we live. Developed with guest curators Ken Tape and Mareca Guthrie, the museum will circulate the exhibit to several Alaska sites. The Burke Museum of Natural History and Culture will then circulate the exhibit in the Lower 48.

Alaska from Air and Space — Alaska is shaped by dynamic forces: earthquakes, volcanoes, seasonal freeze, glacial rebound, erosion, and wildfires. Some evidence can be seen from the ground. Even more can be seen from above. Airborne cameras and satellite

sensors provide new perspective. A selection of images, chosen for their physical beauty or importance, were exhibited. The Alaska Satellite Facility (ASF) of the Geophysical Institute at the University of Alaska Fairbanks provided the images. ASF downlinks satellite data using two large antennas. In addition, ASF maintains a vast archive ranging from historical photographs from the 1800s to satellite imagery just hours old. This data allows researchers to better understand Earth's processes within the context of a changing environment.

The museum also worked with UAF Facilities Services to landscape a site for several outside exhibits, including dredge buckets and fossilized tree trunk sections. Staff installed components from the special exhibit *Hunting & Trapping in Alaska's Interior: Our Stories, Our Lives* in the Gallery of Alaska, along with an exhibit of archaeological specimens, including obsidian points and scrapers from the Nogahabara site. The staff also managed the installation of the museum's ice sculpture by a team of carvers from China. After 30 years of service to the museum, exhibit coordinator Wanda Chin retired in October, 2009.

Education & Outreach

The museum planned a variety of special events, including two Open Houses, where more than a thousand visitors got a chance to see some of the research and collections displayed by our curators. The museum also organized a Fun Fest on the lawn and a Family Science Day featuring the planetarium. Summer demonstrations showed off the artistic side of Alaska with fiber artist Karen Franzen, water colorist Nikke Kinne and oil painter Karen Austen. Dog musher Julie Estey talked about the art of dogs, while Athabascan beadworkers Denise Hardesty and Kathleen Meckel demonstrated their skills at the museum's Military Appreciation Day.

The museum's education department also organized a series of lectures and demonstrations about the smallest animals (curator Derek Sikes' talk about dragonflies) and the largest predators

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OPPOSITE, TOP *Then and Now: The Changing Arctic Landscape*. OPPOSITE Visitors make crafts at the museum's Family Science Day event. ABOVE Youth Volunteers with YV coach/SCA intern Christina Miller (front row, left). RIGHT Karen Austen demonstrates oil painting. FAR RIGHT Objects from the Ethnology and History Collection displayed in the exhibit *Ascension: Exploring the Art of Denali*.





Research & Collections



Archaeology

The archaeology staff led by Acting Curator Jeff Rasic formed several partnerships with community and agencies as well as completing field research at sites across the state. Two new members joined the staff, Scott Shirar as a research archaeologist and Chris Houlette as an archaeology technician. Jeff Rasic and Jim Whitney assisted with development of the Interior Archaeology Exhibit, in the Gallery of Alaska.

The Snare Creek Historical Archaeology project in the Yukon Charley Rivers National Preserve brought students and researchers together to excavate at a historic cabin site on Snare Creek. The site was occupied in the 1940s by three Han Athabascan families working for the Coal Creek gold mining dredge. Six high school students joined the excavation as part of the UAF Summer Research Academy. This was the first of two seasons for this multi-year joint project with the National Park Service, the Bureau of Land Management and the museum.

Staff also assisted with archaeological inventories in the Black River drainage area and in the Nulato Hills in cooperation with the Bureau of Land Management. Another project on the Kobuk River joined museum staff with archaeologists from Gates of the Arctic National Park to relocate and assess known sites, as well as survey and record new sites. Members of the archaeology department conducted assessments of sites located around Karupa Lake in Gates of the Arctic National Park, as well as the Cape Krusenstern National Monument north of the Arctic Circle. Staff also participated in excavations of historic mining sites on the Middle Fork of the Koyukuk and at Spinach Creek Farm in the Goldstream Valley.

Other projects include a National Park Foundation Impact grant-funded assessment of the feasibility of detecting submerged cultural resources in high latitude lakes of the Brooks Range and the Alaska Obsidian Database Project documenting the trace element geochemistry of prehistoric obsidian sources for the purpose of matching artifacts to their sources and reconstructing ancient travel routes.

Earth Sciences

Curator Pat Druckenmiller and his staff pursued several research projects, including a museum-led field trip to the Colville River in August of 2009 to conduct reconnaissance for evidence of North

Slope dinosaurs and support research into the Alaskan arctic dinosaur collection.

The Earth Sciences department also worked with the Royal Tyrrell Museum of Paleontology on Alberta marine reptiles, led fieldwork in the Talkeenta Mountains to collect invertebrate, vertebrate and plant fossils from the Jurassic Era, and collaborated with the University of Oslo Natural History Museum on Jurassic marine reptiles from the arctic archipelago of Svalbard, Norway for the fourth consecutive year. The department also collaborated with the US Fish and Wildlife Service and the Bureau of Land Management on several grant-funded rehabilitation and documentation projects. Kevin May is an integral member of research we do in the Earth Science Department; he participated in the North Slope, Talkeetna Mountains, and Alaska Peninsula dinosaur projects. Significant acquisitions included a new marine reptile skeleton from the Tongass National Forest, a small, rare ichthyosaur (*Toretocnemus*), new dinosaur tracks from the Prince Creek Formation on the Colville River, the relocation and documentation of the oldest dinosaur fossils (tracks) found in Alaska, and advancements in the databasing of the museum's collection online through Arctos. Druckenmiller was the co-convenor of an international symposium on marine reptiles at the annual Society of Vertebrate Paleontology Meeting in Bristol, UK in September 2009.

The department also took part in the Osher Life Long Learning "Mesozoic Alaska" mini-course, assisted in developing online materials for the US Army CRREL permafrost tunnel website near Fox relating to its Ice Age fossils, participated as the featured scientist in both History Channel and NGS documentaries, and gave presentations to the local Rotary Clubs and schools, such as Pearl Creek Elementary School.

Entomology

In July and August, Curator Derek Sikes made two expeditions to the Aleutians. The first was a general inventory of arthropods from various islands. He was joined by three Canadian entomologists, Henri Goulet, Anais Renaud, and Caroline Boudreaux, to establish collaborations which will benefit both our institutions. The second trip was a return to Kasatochi one year after the eruption. The team expected there to be no surviving arthropods and were surprised to find at least 17 species (only a few of which seemed to be breeding). Research on this volcano has led to considerable press coverage, including an international radio interview for the PRI / BBC production, 'The World'.

OPPOSITE, TOP "The Shaman Dances" by Richard Olanna. Purchased with funds made possible by the Rasmuson Foundation.

OPPOSITE Earth Sciences Curator Patrick Druckenmiller (facing camera) and Bjorn Lund with a nearly complete skeleton of an ichthyosaur (marine reptile) in the Norwegian archipelago of Svalbard. **RIGHT** NPS historian Chris Allan (in red hat) conducts an oral history interview with Isaac Juneby, who lived in this Snare Creek cabin as a child, as Alaska Summer Research Academy students excavate. **FAR RIGHT** Entomology Curator Derek Sikes looks for insects on post-eruption Kasatochi volcano.



Left: Chris Houlette. Right: Neel Rozell

The field season of 2010 was the department's busiest yet. To remedy a time conflict, graduate student Joey Slowik was sent on trips in place of the curator. The season began in May with a week of management and collecting in the field sites that MS student Jill Stockbridge had established on Prince of Wales for the Alaska Department of Fish & Game funded Tongass National Forest project using beetles and spiders as an indicator taxa to understand the influences of different timber thinning practices on the biota. In late June, Derek left for a float plane collecting trip in Kanuti and Selawik National Wildlife Refuges using funds from USFWS for the third annual Dragonfly Day event. That trip terminated in Kotzebue – Derek's first visit there, allowing him to briefly experience some coastal arctic communities. He left Kotzebue and flew straight to Juneau for a BioBlitz event (24 hours of rapid collecting / public interaction) funded by ADF&G.

Two MS students, Brandi Fleshman and Joey Slowik, continued their thesis research during FY10. Brandi is updating the checklist of spiders of Alaska, and Joey is using genetic methods to better understand the species relationships in a complex of wolf spiders. Lab technicians Cassidy Scholar, Sarah Huguet, Casey Bickford also joined the staff.

Ethnology & History

The staff continued collaborations with the Morris Thompson Cultural and Visitors Center, with the five-year-loan of 26 Athabascan artifacts on exhibit in the Elders Hall. This marked the culmination of several years of planning, which will continue as the museum rotates additional objects into the gallery space, to share our objects from Interior Alaska with a wider audience.

Collection Manager Angela Linn began work with the Simon Paneak Memorial Museum in Anaktuvuk Pass to help plan for and implement a facility expansion and renovation, which is resulting in new gallery space. The ethnology department will make a five-year loan of sixteen items, including one of the two original skin masks made in 1952. The department also granted a five-year-loan of the Bobby Sheldon car to the Fountainhead Antique Auto Museum in Fairbanks.

Angela began working to host the 2010 Annual Joint Meeting of Museums Alaska and the Alaska Historical Society [meetings were in Sept. 2010]. She also completed her two-year term as Secretary and was elected Vice-Chair of the Registrars Committee-Western Region and served as the co-chair of the local Fairbanks Host Committee

for the 2010 Annual Joint Meeting of Museums Alaska and the Alaska Historical Society. Linn, along with Director of Education Laura Conner and Senior Preparator Steve Bouta, participated on the Troth Yedha' Park Subcommittee.

Film Center

Film curator Leonard Kamerling continued his work on the Maasai Migrants Film Project, an international study of indigenous urban migration, in collaboration with the San Francisco State University Program in Visual Anthropology. He also joined the Tanzania Field School in Applied Visual Anthropology as the Co-Director. A retrospective of Kamerling's films was held at the International World Film Festival in Tartu, Estonia.

Several film productions saw progress during FY10, including "Strange and Sacred Noise," a live performance film of a work by Alaska composer John Luther Adams, "Changa Revisited, the Maasai Migrants Project," and "Fire, Snow, Stars: John Haines, Alaska Poet."

The film center also assisted with a video component for the "Then and Now" exhibit, restoring and translating rare, archival interviews with Inupiaq elders.

Fine Arts

A significant acquisition was realized with the Vogel Collection from the National Gallery of Art as part of their 50/50 project (50 works for 50 states). The collection was made famous by the PBS documentary about Herby and Dorothy Vogel who amassed an impressive body of art work on their salaries as a mailman and librarian.

Collection manager Mareca Guthrie worked with K-6 students teaching natural history drawing with specimens from the museum. She also co-curated the special exhibit "Then and Now." Several gifts to the collection were made, including a painting by George Albert Frost donated by Candy Waugaman, a sculpture by retiring staff member Wanda Chin donated by Ron Inouye, a portrait of Dr. Sutherland by John Wycliffe Forster donated by Donald Cross, works by Wynn Kramarsky, and 60 prints by Nancy Taylor Stonington donated by Grace Schaible.



ABOVE Fine Arts Collections Manager Mareca Guthrie inventories the painting collection. **RIGHT** PhD student Nick Kerhoulas searches for pikas above the snow in the White Mountains in spring 2010. **FAR RIGHT** John Smelter, Ethnology & History intern, installs his exhibit at the Rasmuson Library.



Herbarium

The Herbarium is collaborating in a national effort to database all lichen and bryophyte collections under the recent National Science Foundation program, Advancing Digitization of Biological Collections (ADBC). The staff is preparing a Thematic Collections Networks (TCN) proposal to be led by the University of Wisconsin, together with the Field Museum of Chicago, Duke University, the University of California Berkeley, Harvard University and the New York Botanical Garden. The proposal will include a subcontract to the UA Museum of the North Herbarium.

As part of the ALA Herbarium Imaging project, Curator Steffi Ickert-Bond partnered with one of NSF's TeraGrid's member super-computing centers, the Texas Advanced Computing Center (TACC), for the storage of digital herbarium images requiring more than eight terabytes of space. Currently, some 85,000 herbarium images have been imaged and many are associated with complete information in Arctos. Additional supplemental Research Experience for Undergraduate Student (REU) funds received in 2009 are supporting a student from UAF Department of Computer Science to develop an open-source optical character recognition (OCR) service using the Google Books application Tesseract. This service will extract text from large numbers of images of herbarium sheets, making the images discoverable on the Internet.

The herbarium staff worked with the US Fish & Wildlife Service in the Kodiak National Wildlife Refuge to comprise a total list of vascular plants and inventoried coastal sites in Prince William Sound for the Forest Service. Collection manager Jordan Metzgar received several fellowship and research awards, including a graduate student research award from the American Society of Plant Taxonomists.

Ichthyology

Members of the 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.



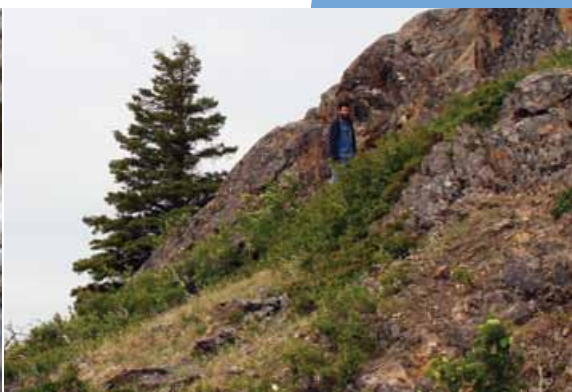
Curator Andres Lopez reports the first confirmed specimen of Northern wolffish from the Alaskan Arctic coast and an Atka mackerel that represents one of the most northern records for the species. The department also supports several research projects. Matthew Campbell, a Biology M.S. student, is studying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

Mammalogy

In July 2009 members of the mammalogy department took part in a collecting expedition to the Alaska Range with curators from the Yale Peabody Museum, the Field Museum in Chicago, and the Smithsonian Institution to document alpine mammal distributions. The staff also offered small mammal identification training to the National Park Service, presented a small mammal trapping workshop for UAF faculty members and students, and took part in the Creamer's Field Spring Migration Event in April 2010.

Ornithology

The department continued to have a high level of productivity this fiscal year. Kyle Campbell began his Master's program. Department personnel, including curator Kevin Winker, conducted five field efforts: two in Alaska (Kodiak and Attu Island), two in the Philippines, and one in Russia. Staff and students were involved with ten scientific presentations at five different meetings, including the American Ornithologists' Union meeting in Philadelphia, Pennsylvania. Fully 21 publications appeared with students or staff as authors, and the collection grew by 1,500 specimens. Thanks to the efforts of volunteers and the support of the Friends of Ornithology, much was accomplished.



ABOVE LEFT Ichthyology graduate student Matthew Campbell collects samples. ABOVE RIGHT Bunting specimens show diversification at high latitudes. FAR LEFT Parsley fern (*cryptogramma acrostichoides*) in Turnagain Arm. LEFT Field site along Turnagain Arm.

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Museum staff and students are indicated in bold.

Field Research Sites

Archaeology

ALASKA: Snare Creek, Yukon-Charley Rivers National Preserve; Acme Creek, Middle Fork Koyukuk River; Karupa Lake and Kobuk River, Gates of the Arctic National Park; Cape Krusenstern National Monument; Black River drainage, east-central Alaska; Nulato Hills, western Alaska.

Earth Science

NORWAY: Svalbard. **ALASKA:** Alaska Peninsula, near Chignik Bay; Talkeetna Mountains; Colville River.

Entomology

CANADA: Illecillewaet River, BC; Cracker Creek, YT. **ALASKA:** Adak;

Aiktak; Amatignak Island; Atigun Pass; Atka Island; Bettles; Chowiet Island; Delta Junction; Edgerton Hwy, Tolsina River; Fairbanks near Liwa Lake; Great Sitkin; Haines; Hoonah; Ivishak River; Juneau; Kanuti NWR; Kasatochi; Ketchikan; Klutina River; Kotzebue; Gulkana River; Norutak Lake; Salcha; Parks Hwy, E of Denali National Park entrance; Prince of Wales Island; Prince William Sound; Revillagigedo Island; Trims Creek; Rootok; Salcha River; Selawik National Wildlife Refuge; Sumez Island; Tangik Island; Thompson Pass; Tiekkel River; Tok Cut-off; Two Rivers; Wosnesenski. **COLORADO:** Adams County; Pikes

Peak; Idaho Springs, Clear Creek; Larimer County; Loveland Pass, Pass Lake; Miller Lake, Lyons; Mt. Evans; South Platte River; Summit County. **IDAHO:** Bear Lake; Snake River. **MONTANA:** Clark Canyon Res.; Kalispel, Somers Beach; Milltown, Clark Fork River. **UTAH:** Logan; Odgen.

Herbarium

ALASKA: Turnagain Arm; Kenai Peninsula; Valdez; Kodiak NWR; Prince William Sound.

Mammalogy

ALASKA: Tangle Lakes, Denali Hwy; Cordova; Sitka; White Mountains. **MONTANA, IDAHO, WASHINGTON.**

Staff Professional Service

Alaska Entomological Society
Alaska Historical Society
Alaska Quaternary Center
American Ornithologists' Union
American Society of Mammalogists
American Society of Plant Taxonomists
Arctic Institute of North America
Conservation of Arctic Flora and Fauna —Expert Group
Flora of North America
International Association for Obsidian Studies
Museums Alaska
Registrars Committee – Western Region
Western Museums Association

Education continued from p. 3

(George Durner on polar bears and sea ice). Other talks explored community archaeology on the Kuskokwim (Josh Reuther), as well as the facets of the museum's collections (ethnology collection manager Angela Linn) and looked at the partnership behind a specific exhibit (Annie Duffy, *Ascension*).

More than 3000 Fairbanks-area students explored the museum during the FY10 school year through both docent and teacher-led tours. Thanks to the museum's continued partnership with Flint Hills Resources, classes on docent-led tours received free admission. The museum also offered a Home School Day for the second year in a row. This event, with activities in the Education Center, docents in the galleries and a free showing of the museum-produced movie *Dynamic Aurora*, served almost 175 home-schooled children and their families.

The museum participated in the Interior Alaska District Science Fair in March 2010, handing out six awards including certificates and free museum passes. During the summer of 2009, more than 1000 youth volunteers spent time in the galleries, sharing hands-on objects. Of those, 13 Youth Volunteers participated in a program that offered training in career skills, museum science, art and culture, interpretation and more. They applied many of their new skills on the museum floor, interacting with gallery visitors.

UAF Courses

The museum's curators serve joint appointments as faculty members at the University of Alaska Fairbanks. During FY10, museum curators and staff taught the following courses:

- ART 262 – World Art History II
- ART 419 – Figure Drawing
- BIOL 195 – Introduction to Field Entomology
- BIOL 195 – Introduction to Alaska's flora
- BIOL 305 – Invertebrate Zoology
- BIOL 331 – Systematic Botany, taught at UAF, 4 credits
- BIO 497 – Individual Study: Development of an online key of Cyperaceae
- BIOL 644 – Advanced Topics in Evolution
- BIOL/CHEM/PHYS/GEOS F693
- EBOT 100 – Introduction to Ethnobotany, UAF/KUC campus, taught at Nash Harbor, Nunivak Island
- FISH/BIOL – 427 Ichthyology
- GEOS 106 – Life in the Age of Dinosaurs
- GEOS 482 – Geology Seminar
- GEOS 488 – Undergraduate Research

Visitor Services

The UA Museum of the North is a thriving attraction on the UAF campus. A dramatic visitation decrease of 15,000 people during this fiscal year corresponds to an overall decrease in Alaska tourism. Roughly 75% of our annual museum visitation occurs during the summer season (May – September). Alaska tourism during the summer of 2009 was the worst in recent history. Just prior to the season, the stock market reached its lowest level in decades. As the economy slowed, excess spending and travel decreased dramatically.

Overall visitation decreased by 16% in FY10, leaving us with a yearly total of 77,923 museum visitors. Of these visitors, 41,709 paid regular admissions to the museum; 24,645 arrived via summer tour companies and on education tours; and 11,569 did not pay any admission as university students, museum event goers, or with library passes.

The museum movies shown in our auditorium brought in \$73,779. Our movie lineup included *Winter, You Are Here*, and *Dynamic Aurora*. Sales at the museum store totaled \$667,263. This represents a 12% decrease from the previous fiscal year largely due to the decrease in visitors. We continue to buy the majority of our store merchandise directly from Alaskan artists so we can sell the highest quality Native art and jewelry, as well as educational toys and books for all ages.

The visitor services department is made up of three full time and 12-20 part time and temporary employees, depending on the season. During FY10, our total workforce was made up of 34 people.

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 FY10.

Gifts to Archaeology

Archaeology collection donors: Alyeska and Dan Odess

Gifts to Earth Sciences

Sam Egli Helicopter time
 Kenneth Sassen Moose antlers
 Joshua Curtis Mammoth skull material

Gifts to Entomology

Dominique Collet Insects from his private collection of Alaskan arthropods

UAF Summer Sessions
 field entomology students Specimens from around Fairbanks
 Susan A. Woods Voucher specimens of grasshoppers
 Marie Heidemann Pollinators from Juneau
 Brandi Fleshman Micaria, other spiders, and associated by-catch from dry pitfalls, sweeps, and hand collection as part of MS thesis work

Joey Slowik Arachnids from Prince of Wales Island
 Genevieve J. Henry Burlese samples of three sites
 Cathy Turner Cottony Cushion Scales (*Icerya purchasi*) from UAF Cooperative Extension

James Kruse Sawfly donation from J. Kruse USDA FHP
 Izembek National Wildlife Refuge Miscellaneous arthropods
 Justin Runyon Dolichopodidae species missing from UAM collection

Matthew Bowser *Dinothenarus capitatus*, USFWS, Kenai NWR
 Ken Zogas Histerid, new state record, *Paromalus teres*
 Mark Schultz Histerid, new state record, *Paromalus mancus*; on permanent loan to UAF from USDA FHP, Juneau

Ellen Trainor Voucher specimens for UAF MS Thesis
 Deborah Rudis Nine *Bombus* from Juneau, USFWS
 Kenneth Stewart 19 vials with 17 species of adult Capniidae — vouchers for comparative id using the Stoneflies of Alaska monograph.

Derek Sikes Miscellaneous specimens collected in 2010 not associated with any project

John Hudson Odonata from 2009 field season
 Michael Rasy Spiders from UAA Cooperative Extension
 Jack Withrow Mourning Cloak butterfly
 David Klein Three *Carabus vietinghoffi* from Quartz Lake
 Pierre Lonewolf Vespid & desiccated spiders for ID from Kotzebue

Mark Schultz Crickets from Prince of Wales

Gifts to Ethnology & History

Annie Hooper Collection of 9 ethnological items obtained by her parents, Fred and Elizabeth Buechler, including 2 Anaktuvuk Pass masks, a pair of women's fancy mukluks and three sets of Eskimo yo-yos.

Ruth Storvick Ivory carving
 John and Janna Gentle 25 ethnological items from Siberia and Alaska, including an eider head vest from approximately 1914.

Christian Peters Two historic items, including a wrapper for the Golden Heart Fairbanks Baking Company.

Margaret Sheldon Schlein Collection of 23 objects used by Charles Sheldon, the "Father of Denali National Park."

Ginger Carroll Two Native American baskets.
 Eric Juday Two pieces of early 20th-century Athabaskan beadwork, collected by William Eugene "Jack" Jones.

Mabelle Jean Smith Collection of 83 ivory carvings and pieces of tourist art.

Aldona Jonaitis 43 items collected by former UAMN Director and exhibited in her office during her tenure.

Edward Pagliassotti A pair of Anaktuvuk Pass masks by Rhoda Ahgook.

Estate of Calvin J. Lensink Eighteen ethnological items collected across Alaska, including an otter fur parka and six masks from Nunivak Island.

Lynn Mayo Man's muskrat parka made by David Green Furriers.

Gifts to Fine Arts

Grace Schaible 60 prints by artist Nancy Taylor Stonington
 Candy Waugaman "Three Dog Teams" painting by George Albert Frost

Wynn Kramarsky 16 works on paper
 Ron Inouye "Fence n' Fold" sculpture by Wanda Chin
 Donald Cross Portrait of Dr. Sutherland by John Wycliffe Lowes Forster

National Gallery/
 Dorothy & Herbert Vogel 50 works from the Vogel Collection as part of their 50/50 project (50 works for 50 states) project.

Gifts to the Herbarium

Herbarium collection donors: Ed Berg; Betty Charnon, US Forest Service; Andrew Clark, Smithsonian; Mary Beth Cook, Wrangell St. Elias National Park; Cornell University Plant Pathology Herbarium; Reidar Elven, Oslo Herbarium; Chris Houlette, Gates of the Arctic National Park; Peter Ray and Mary Stensvold, US Forest Service; Dave Swanson, National Park Service; Ernst Vitek and Jeanette Whitton, University of British Columbia Herbarium; Michael Windham, Duke University Herbarium.

Gifts to Mammalogy

Mammal specimen donors: Alaska Department of Fish and Game (Lori Quakenbush, Gay Sheffield, Rich Brenner, Tom Seaton, Lorrie Rea, Karen Blejwas); Bill Lucey; National Marine Fisheries Service (Barbara Mahoney); Derek Sikes; Jonathan Fiely; United States Fish and Wildlife Service (Dave Roseneau, Steve Ebbert); Kris Larson; Pat Cotter; Kate Savage; Jack Withrow; Kathy Burek; Lesa Holleb; David Klein; Paulette Wille; North Slope Borough (Cyd Hanns); Ken Severin; Joey Slowik; Alaska Sea Life Center (Robert Walton); Karen Bollinger; Josh Peirce; Andy Baltensperger; Kyle Cambell.

Gifts to Ornithology

Heinrich Springer Bird specimens



FAR LEFT "The Word" by Ester artist Sandy Gillespie. Purchase made possible by generous support of the Rasmuson Foundation Art Acquisition Fund. **LEFT** "Double-Sided" by Ginger Placeres. Purchased with funds made possible by the Rasmuson Foundation. **RIGHT** Portrait of Dr. Sutherland, local doctor, painted by JWL Forster. Donated by Donald Cross.

Development & Membership

The museum receives less than 30% of its funding from the state, making support from members, donors and business partners critical to daily operations. The Fairbanks Daily News-Miner, Flint Hills Resources, Totem Ocean Trailer Express and Wells Fargo continued to serve as museum corporate partners in FY10. These partnerships support the museum's education programs, special exhibits, and outreach events like the annual open house and Family Fun Fest.

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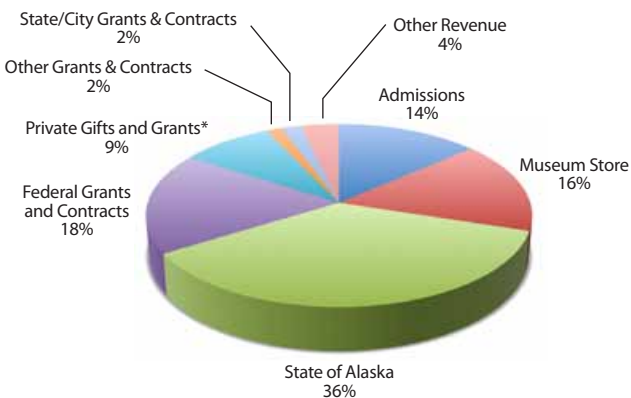
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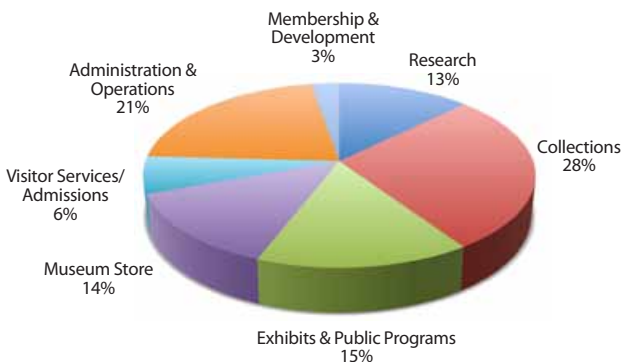
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 Ms. Susan L. Schneider
 Mr. and Mrs. William Steen
 Ms. Dorothy Stella
 Mr. Dennis J. Stephens and
 Ms. June Pinnell-Stephens
 Mr. and Mrs. Robert L. Sterns
 Gretchen and Glen Straatsma
 Ms. Cynthia A. Stragier
 Mr. Peter Stern
 Dr. Mark M. Stevenson
 Ms. Amythe K. Strobell
 Dr. Susan F. Sugai
 Ann W. Swift
 Mr. and Mrs. Keith M. Sworts
 Mr. and Mrs. James R. Taylor
 Dr. and Mrs. Robert W. Taylor
 Ron and Mary Kay Teel
 Valerie M. Therrien
 Mr. Curtis L. Thorgaard
 Mr. and Mrs. Mike D.
 Thurman
 Ms. Lisa J. Toland
 Ms. Theresa H. Tomczak
 Dr. Debra Triplehorn
 Mr. and Mrs. Leon D. Unruh
 Mrs. Margret E. Van Flein
 Mr. and Mrs. Terry A. Vance
 Dr. Renate A. Wackerbauer
 Mr. Jeffery D. Walters
 Ms. Marjorie L. Ward and
 Ms. Marlys E. Tedin
 Dr. Penelope H. Ward and
 Mr. Daniel L. Ward
 Mr. and Mrs. Walter L. Weese
 Mr. and Mrs. James C. Wherry
 Mr. Kenneth R. Whitten and
 Ms. Mary Ruth Zalar
 Susan M. Will
 Ms. Paulette M. Wille
 Mr. Frederick E. Winker
 Mr. John J. Withrow
 Mr. James R. Wolfe and
 Ms. Carol A. Hogins-Wolfe
 Mr. Kesler E. Woodward
 Mr. Ian D. Wright and
 Ms. Jennifer J. Reed
 Mr. David A. Yokel and
 Ms. Kathleen B. Taylor
 Yokel
 Mr. John C. Yun and
 Ms. SunDuk Yun
 Mr. and Mrs. Cortland R.
 Zachel
 Dr. Beth A. Zeiger
 Mr. and Mrs. Christopher E.
 Zimmerman
 Mr. and Ms. Steven T.
 Zimmerman

Financial Summary

INCOME		FY10
State of Alaska		\$1,484,541
Federal Grants and Contracts		733,446
Museum Store		667,263
Admissions		554,840
Private Gifts & Grants		361,063
Other Revenue		149,023
State/City Grants & Contracts		74,347
Other Grants & Contracts		65,674
Total income		\$4,090,197



EXPENSE		FY10
Collections		\$1,168,901
Administration & Operations		901,244
Exhibits & Public Programs		643,390
Museum Store		566,853
Research		532,414
Visitor Services/Admissions		268,317
Membership & Development		112,915
Total expenses		\$4,194,035



* 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 Arthropod Responses to Tongass Second-Growth Thinning (Sikes)	\$82,325.95
Systematics of Hoary Marmots (Olson)	\$48,039.00
Alaska Insect Pollinators: Occurrence Data for an Undersampled Northern Biota (Sikes)	\$16,664.50
Baseline Surveys of Arthropods in Alpine and Subalpine Habitats in SE Alaska (Sikes)	\$7,554.00

Bureau of Land Management

Paleontology Collections Management (Druckenmiller)	\$35,000.00
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Institute of Museum & Library Services

Providing Access to Images of Alaska's Botanical Heritage (Ickert-Bond)	\$96,705.00
Conservation of the Kolmakovsky Redoubt Collection at UAMN (Linn)	\$75,000.00

National Park Service

Chignik-Meshik Archaeological Survey-Understanding Prehistoric Migration and Trade in Southwest Alaska with Transported Volcanic Rocks (Shirar)	\$109,412.00
Kobuk Valley Sand Dunes: Archaeological and Ethnographic Overview (Shirar)	\$98,447.00
Native American Graves Protection and Repatriation Act Documentation Improvement (Whitney)	\$89,996.00
Vanished Villages: Archaeology of Late Prehistoric Lakeside Settlements (Shirar)	\$63,474.00
Backlog Cataloging of National Park Service Collections at the University of Alaska Museum (Rasic)	\$58,000.00
Archaeology & Museum Management Mentoring (Whitney)	\$37,470.00
CESU Unraveling Evolutionary Beringian Plants (Ickert-Bond)	\$27,350.00
Vascular & Non-Vascular Plant Specimen Identification, Curation & Technical Support for Vegetation Monitoring in the Southwest Alaska Network (Parker)	\$9,988.00
Herbarium Study of Plant Samples from the Arctic Network of National Parks (Ickert-Bond)	\$9,165.00

National Science Foundation

Paleoindian Adaptations in Eastern Beringia: Prelude or Postscript to the Early Settlement of the Americas (Rasic)	\$34,930.00
REU Collaborative Research: Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny (Lopez)	\$5,933.00
Collaborative Research: Gymnosperm (Ickert-Bond)	\$2,751.00

Rasmuson Foundation

Art Acquisition Initiative (Guthrie, Linn)	\$24,375
• Arctic Night Mask by Moses Wassilie	
• Owl Mask by Kathleen	
• Unknown 21st Century Family by Sheryl Maree Reily	
• White Hunting Hat by Mike Wassilie	
• Dark Hunting Hat by Mike Wassilie	
• Photographs by Barry McWayne	
• Watercolor by Vladimir Zhikhartsev	

UA Foundation

Re-Housing Original TAPS Collection (Whitney)	\$10,586.00
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USDA Forest Service

Hidden Falls Archaeological Collections (Whitney)	\$15,000.00
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US Fish & Wildlife Service

Rehabilitation of Paleo & Archaeological Collections (Druckenmiller/Rasic)	\$55,742.00
Documenting Alaska's Oldest Dinosaur Fossils; A Jurassic Track Site from the Alaska Peninsula (Druckenmiller)	\$26,000.00

* This list reflects new grants and contracts awarded during the FY10 fiscal year only. It does not include multi-year grants or contracts awarded in previous years.

"Wife's Bowl" by
Audrey Armstrong.
Purchased with
funds made possible
by the Rasmuson
Foundation.





Research Associates and Affiliates

Archaeology

Claire Alix
Julie Esdale
Erica Hill
Howard Smith

Earth Science

Roger Benson
Robert Blodgett
Caleb Brown
Greg Erickson
Sarah Fowell
Erin Maxwell
Paul McCarthy

Entomology

James Kruse
Ken Philip
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

Ichthyology

Catherine Mecklenburg
Nora Foster

Ornithology

Thomas Braile
Johannes Erritzoe
Daniel Gibson
Kevin McCracken
Rose A. Z. Meier
Matthew Miller
Christin Pruett
Heinrich Springer

Students

Archaeology

Fawn Carter
Roberta Eastwood
Aimee Ely
Conner Hite
Heather Paxson
Allie Peltó
Jessica Peterson

Earth Sciences

Hannah Foss
Hiro Mori
Kevin Stack
Jacob Van Veldhuizen

Entomology

Brandi Fleshman
Kelly May
Genevieve Miller

Joey Slowik
Jill Stockbrige

Ethnology

John Smelter

Fine Arts

John Smelter

Herbarium

Sinian Chen
Blake Eggemeyer
Monte Garrouette
Caité Green
Eric Haberin
Mark Henspeter
Zachary Meyers
Jordan Metzgar
Celia Miller
Samantha Wilson

Ichthyology

Matthew Campbell
Robert Marcotte
Joshua Ream

Mammalogy

Ryan Cooper
Kayla Freidrich
Kyndall Hildebrandt
Nick Kerhoulas
Hayley Lanier
Sumiyo Sekine
Shelby Surdyk

Ornithology

Jack Withrow
Kyle Campbell

Visitor Services Employees

Marcus Avugiak
Erica Blake
Savana Bradley
Regan Criswell
Melissa Dasher
Weston Davey
Lisa Diedrick
Lance Ellanna

Jed Ellis
Duncan Fraiser
Mari Freitag
Emily Hemenway
Nanae Ito
Jessica McBrien
Corbin Gieck
Anne Goering

Clarence Griffen
Heather Lampron
Lara Johnson
Kevin Legersmith
Ashley Paris
Kathleen Plant
Rumi Robinson
Kate Sanders

Morgan Simpson
Jake Sirevaag
Victoria Smith
Amy Snider
Sundance Visser
Laura Webster
Kristen Wertanen
Ming Zhu

Volunteers

Archaeology

Jacob Ellanna
Lori Hanson
Steve Lanford
Allison Ward

Earth Sciences

Brent Ellanna
Victoria Florey
Hannah Foss
Paul Jensen
Naomi Morris
Jacob Van Veldhuizen

Education

Anguyaluk (Jill) Anderson
Bill Barnes
Jessica Beecher
Maggie Billington
Angela Bingley
Bryan Birkholz
Danielle Bouton
John Boyle
Theresia Buchholz
DeLois Burggraf
Ed Callaghan
Pat Cariati
Anne Castle
Amy Chan
Karen Clautice
Ashton Compton
Leigh Anne Cox
Denaeuh Davis
Barbara Day

Jim Deininger
Mikey Dewey
Donna Dinsmore
Naaqtuug Dommek
Lorena Edenfield
Mary Gathoni Egger
Elizabeth Enlow
Tobin Farr
Charlie Fisher
Morgen Frazer
Regina Frazer
Laurel Gangloff
Maria Gavora
Barbara Gorman
Jack Grandfield
Kris Haight
Jess Hampey
Barbara Harmening
Tom Hewitt
Marcella Hill
Kris Howk
Murray Howk
Gretchen Hundertmark
Ron Inouye
DJ Jennings
Janet Johnson
Patricia Johnson
Logan Johnson
Harry Karmun
Alexis Keller
Albert Knapp
Meryem Kugzruk
Nikki Lawhead
Jim Maas

Kristin Mahlen
Feng Ma-hoy
Kelly May
Mia McClain
Brandon Meston
Christina Miller
Lee O'Hare
Veronica Padula
Christopher Papin
Marceline Post
Joyce Potter
Erika Rader
Moki Rigby-Ronningen
Alexandra Roberts
Flora Roddy
Stephanie Roundrup
Rochelle Schall
Adrienne Smyth
Sarah Swartz
Leslie Swenson
Aaron Topkok
Amy Topkok
Chris Topkok
Joe Topkok
Sean Topkok
Tumi Traustason
Vincent R. Varieur
Joyce Wallbaum
Avalon Wappett
Marci Ward
Kayla Willburn
Linda Witt

Ethnology

Camilla Kennedy

Entomology

Mary Wyatt
Krystal Osborne
Genevieve Henry
Steve Peek
Jackson Drew
Alexis Bystedt

Fine Arts

Nona Debenham
Summer Hahm
John Smelter
Miki Smelter
Jean Lester

Ichthyology

Rachel DeWilde

Mammalogy

Mahreina Ellanna
Magali Vincent

Ornithology

Luke DeCicco
Steven Heil
Michael Schwitters
David Sonneborn

Volunteer Hours

Archaeology: 314
Earth Sciences: 160+
Education: 3,431
Entomology: 124
Ethnology: 11
Fine Arts: 132
Ichthyology: 100
Mammalogy: 132
Ornithology: 2,626

ABOVE Canadian entomologists Caroline Boudreault, Anais Renaud, and Henri Goulet joined Entomology Curator Derek Sikes (in hat) aboard the USFWS vessel *Tiglax* to collect insects on various Aleutian islands in July 2009. **BELOW** Museum docents at Fall 2009 Training.



The University of Alaska Museum of the North's FY10 annual report is published with support from: