From the Chair:

Captain Nema retires

After 41 years of exemplary service to the Department, William Duane Hope, our curator of nematodes, decided to hang up his gloves and officially retire on April 30 of this year. On May 17, IZ had a special, surprise gathering to show our appreciation to Duane, and wish him well in this new era of his life. The Hope family was present en masse, some of whom traveled across the country, and Duane was genuinely touched. In attendance was Hans Sues, NMNH’s Associate Director for Research & Collections, and he gave a wonderful speech. As usual, the IZ staff did a great job in organizing this event, and I wish to record it here in *No Bones* for posterity.

Retirement is a personal decision in our system. If you have the good fortune to enjoy reasonably good health and a lucid mind, you retire to do other things, be with your family, or like Duane, continue to work on your research, only this time uninterrupted by various activities and committee work that increasingly eat up our time. We are all delighted that Duane will continue to work here as an Emeritus. We surely can use a nematode expert, as well as the wise independent counsel of an Emeritus!

Duane has had a very successful career. The names Hope, IZ, and nematodes, are virtually synonymous in scientific circles around the world. His expertise and papers, penchant to be a great host and trainer, and zeal to gather information and literature about nematodes, have brought us not only a great reputation but also made us the “nematode taxonomic capital of the world.” Duane is responsible for introducing modern standards to anatomical studies of the systematics of nematodes. Most workers before he came along illustrated outlines of nematodes with little attention to internal anatomy—he changed all this with his applications of SEM and TEM technology.

Consider when Duane was hired in 1964, the USNM marine nematode collection consisted of 27 cotype specimens of a single species!! Thanks almost exclusively to Duane, today we have over 1,500 primary and secondary types, and 30% of the world Nemata species are now represented, a truly remarkable accomplishment. His impact on students has been superb.

Duane served as Chair of IZ from 1976–1980, and also served admirably (and without protest!) in countless Museum committees. As one former chairman said of him: “Any [committee] assignments he takes on are done with the same attention to detail and precision he has shown in his [scientific] work”. I would be remiss in not mentioning Abbie Yorkoff, Duane’s long-time research assistant. She is in no

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small measure responsible for all the good that has happened over the years with IZ nematodes, and the extraordinary library that she and Duane have built. And last, but certainly not least, Duane’s two wonderful volunteers, **Eunice Pancoast** and **Rosanne Johnson**, need to be prominently acknowledged as they have been instrumental in helping him and Abbie to improve the collection, library, and other IZ resources.

**William Duane Hope**  
BS, Colorado State Univ 1957  
MS, Colorado State Univ 1960  
PhD, Univ California Davis 1965  
NMNH, Assoc Curator 1964-1973  
Curator 1973- April 2006  
Chair IZ 1976-1980  
Emeritus 2006-

**Eunice Pancoast** will have completed 21 years as a volunteer at NMNH this October. Her many skills include cataloging and database management (specifically *Procite* for bibliography). Eunice has assisted in the IZ libraries, and in sorting nematodes and working with slides and the wet collection (curation). She has a BS in Zoology form George Washington University and a Library Science degree from the University of Legon in Accra, Ghana. She also completed additional library course-work at the University of Maryland. She has always been interested in museums and first came to the Smithsonian in response to a notice in the newspaper mentioning the need for volunteers. She enjoys the people, perusing the scientific literature, and making slides. Eunice feels she has learned a lot while working at the Museum, and appreciates the intellectual stimulation.

**Rosanne Johnson** has volunteered periodically for 17 years at NMNH. Since 2001 she has been at the Museum twice a week. Her specialty is translations from Russian into English, and has translated numerous articles and books in a number of fields. She first came to the Museum through SI’s volunteer program in 1989. Rosanne has a BA in Russian and a MLS in Library Science from the University of Maryland. She had previously worked at the University of Maryland Library. Rosanne enjoys the challenge of translating, working in *Procite*, and the people she meets at the Museum.
Klaus Ruetzler attended the 7th International Sponge Symposium held in Buziões, Brazil, 7-13 May. Klaus collaborated with his postdoctoral associate Cristina Diaz, taxonomist and conference convener Eduardo Hajdu (Federal University of Rio de Janeiro), and molecular biologist Robert Thacker (University of Alabama) to make five presentations, one of them invited (Diaz & Ruetzler). [See publications section for listing of abstracts.]

Allen Collins was invited to attend the Coordinating Workshop for DNA Barcoding for CoML (Census of Marine Life). The event was held at the Royal Netherland Academy of Arts and Sciences in Amsterdam, 15-17 May. Allen’s role was to represent the perspective of Tree of Life projects dealing with marine organisms and how they can best fit into barcoding efforts associated with CoML projects. Additional information on the workshop can be found at: http://www.barcodingmarinelife.org/

While visiting the Smithsonian Marine Station at Fort Pierce, Florida, Cynthia Santos and Jon Norenburg discovered a new species of Carcinonemertes infesting the commercial stone crab. Carcinonemertid nemerteans are worms that live as ectosymbionts on decapod crustaceans (primarily crabs) and eat the developing eggs and embryos carried by the female host. Later, working with Florida Fish and Wildlife Commission in the Florida Keys, Cynthia and Jon added the Florida spiny lobster, Panulirus argus, as a host for Carcinonemertes. Most likely this is a new species of worm as well. The researchers are on a two-month quest to further document the diversity of these nemerteans.

According to Jon all commercially fished North American crustaceans (except shrimp, crayfish and New England rock crabs) are known to host these egg predators. Although the California spiny lobster is a known host, these worms are not known from western Atlantic spiny lobsters. These are the next study targets as Jon and Cynthia continue their fieldwork in Venezuela and the Gulf of Mexico.

Chris Mah recently returned from six weeks on an Antarctic cruise aboard the R/V Laurence M. Gould. During the trip he identified asteroids for a project exploring gene flow/evolution of Antarctic-Magellanic invertebrates. He collected many taxa including asteroids, ophiuroids, echinoids, gorgonians, stylasterines, sponges, and bryozoans for the NMNH. For details of the cruise (and many beautiful photos), the online journal for the research is at: www.auburn.edu/antarctica.

Dave Pawson and Chris Mah taught a three-day workshop (1-3 April) on Echinoderms for visiting researchers Owen Anderson (sea urchins), Nikki Davey (sea cucumbers), and Kate Neill (sea stars), three staff members from New Zealand’s National Institute of Water and Atmospheric Research.

Allen Collins was quoted in ABC NEWS on-line in the article "Scientists Discover 8 New Species" by Aron Heller (June 2, 2006). Commenting on the discovery of an ancient ecosystem in a lake inside a cave near the city of Ramle in central Israel, Collins said the find “underscores how little we know about life on our planet and how important it is to keep looking.”

For additional information see: http://abcnews.go.com/Technology/wireStory?id=2029210

Chris Mah aboard R/V Laurence M. Gould
Photo: Ellen Bailey, Woods Hole Oceanographic Institute
Owen Anderson, National Institute of Water and Atmospheric Research, New Zealand; to participate in echinoderm workshop (3/31–4/15/2006). **Sponsor: Dave Pawson**


Marcela Bolanos, University of New Hampshire; to study polyclad collection (4/10–4/14/2006). **Sponsor: Jon Norenburg**

Kathrin Bolstad, Earth & Oceanic Sciences Research Institute, Auckland University of Technology, New Zealand; to examine cephalopods and work with IZ cephalopod specialists (6/15–6/30/2006). **Sponsor: Clyde Roper**

James Carlton, The Maritime Studies Program of Williams College-Mystic Seaport, Mystic, Connecticut; to conduct work on a shell epibiota project examining and photographing a wide range of taxa (5/30–6/2/2006). **Sponsors: Steve Cairns, Linda Cole, Jerry Harasewych, Rafael Lemaitre**

Luis Carrera-Parra, ECOSUR, Chetumal, Mexico; to study eunicean polychaetes and eunicid types (3/27–4/10/2006). **Sponsor: Kristian Fauchald**

Edith Chave, NOAA, Honolulu; to consult with Steve Cairns to identify photographs of deep-sea corals from Hawaii (5/23–6/26/2006). **Sponsor: Steve Cairns.**

Monica Chin-Perez, Smithsonian Institution, Hirshhorn Museum; to view the giant squid (5/22/2006). **Sponsor: Linda Cole**

Atilano Contreras-Ramos, Centro de Investigaciones Biologicas, UAEH, Mexico; to study and photograph marine, freshwater and terrestrial mollusks (5/30–6/2/2006). **Sponsor: Bob Hershler**

Maria Coppolino, American Museum of Natural History, Division of Malacology, New York; to tour mollusks collection in IZ (5/22/2006). **Sponsor: Ellen Strong**

Nicola Davey, National Institute of Water and Atmospheric Research, New Zealand; to participate in echinoderm workshop (3/31–4/15/2006). **Sponsor: Dave Pawson**

Alice Doolittle, Western Pennsylvania Conservancy; to study Pennsylvania freshwater mollusks (6/23/2006). **Sponsor: Bob Hershler**

Troy Fadiga, University of Iowa; to examine Recent and Fossil coral collections in the families Meandrinidae and Oculinidae, and to consult with Steve Cairns (5/24–5/26/2006). **Sponsor: Steve Cairns**


Estella Hernandez, Marine Biodiversity Processing Center, Natural History Museum of Los Angeles County, California; to learn about collection management policies (5/2–5/4/2006). **Sponsor: Karen Reed**

Simon Hills, AWC, Massey University, New Zealand; to consult on Antarctic project (6/20/2006). **Sponsor: Jerry Harasewych**

John Holsinger, Old Dominion University, Virginia; to deposit specimens (cave amphipods) in crustacea collection (5/16/2006). **Sponsor: Elizabeth Nelson**

Tom Hopkins, The University of Alabama, Alabama Museum of Natural History; to continue studies on Luidia and Henricia (Asteroida) holdings in the USNM collection (5/15–5/18/2006). **Sponsor: Cindy Ahearn**

John W. Huntley, Virginia Polytechnic Institute and State University; to sample Lampsilis (Unionid) valves (4/13/2006). **Sponsor: Cindy Ahearn**


Kathleen Jamison, George Mason University, Virginia; to discuss GIS needs related to Albatross geo-referencing project (5/4/2006). **Sponsor: Cheryl Bright**

Alfredo LaGuarda-Figueras, Instituto de Ciencias del Mar y Limnologia, UNAM, Mexico; to study the taxonomy and ecology of echinoderms from Mexican waters: Gulf of Mexico, Caribbean and Pacific (5/7–5/13/2006). **Sponsor: Cindy Ahearn**

Celio Magalhaes, Instituto Nacional de Pesquisas da Amazonia, Brazil; to study freshwater crabs in USNM collections (5/8–5/10/2006). **Sponsor: Rafael Lemaitre**

Alejandra Martinez-Melo, Instituto de Ciencias del Mar y Limnologia, UNAM, Mexico; to study the taxonomy and ecology of echinoderms from Mexican waters: Gulf of Mexico, Caribbean and Pacific (5/7–5/13/2006). **Sponsor: Cindy Ahearn**


Kornicker, L.S. 2006 Authorship and publication date of the Palaeozoic genera Cypridinella, Cypridellina, Sulcina, Rhombina, and Offia (Ostracoda: Myodocopina). Zootaxa 1125: 39–43.


Nancy McCartney, University of Arkansas; to discuss collections management and research (4/20/2006). Sponsor: Jerry Harasewych

Ron Mollick, Christopher Newport University, Virginia (4/15/2006); behind-the-scenes tour of the USNM Invertebrate Zoology collections. Sponsor: Cindy Ahearn


Kathy Omura, Marine Biodiversity Processing Center, Natural History Museum of Los Angeles County, California; to gather information about moving collections and collections (5/4/2006). Sponsor: Karen Reed


Kathy Omura, Marine Biodiversity Processing Center, Natural History Museum of Los Angeles County, California; to gather information about moving collections and collections (5/4/2006). Sponsor: Karen Reed

Gordon Paterson, Department of Zoology, The Natural History Museum, United Kingdom; to study deepwater polychaetes from the Pacific Ocean (3/27–4/7/2006). Sponsor: Kristian Fauchald


John Pearse, Center for Ocean Health, University of California; to consult with Allen Collins and view the USNM echinoderm collection (5/10–5/12/2006). Sponsor: Allen Collins


Sigmer Quiroga, University of New Hampshire; to study polyclad collection (4/10–4/14/2006). Sponsor: Jon Norenburg

Martha Reguero, Laboratorio de Malacología, Instituto de Ciencias del Mar y Limnología, UNAM, Mexico; to confirm identifications of marine, land and freshwater gastropods, and to photograph specimens (5/30–6/2/2006). Sponsor: Bob Hershler

Janet Reid, Virginia Museum of Natural History; to conduct copepod research, and to use the Wilson Copepod Library (6/19–6/23/2006). Sponsor: Rafael Lemaitre

Juan Sanchez, University of the Andes, Colombia; to examine Paragorgia collection (Octocorallia) (6/23–6/29/2006). Sponsor: Steve Cairns

Geoff Sanders, National Park Service, Center for Urban Ecology; to discuss National Park Service GIS needs related to Potomac Basin GIS project (6/4/2006). Sponsor: Cheryl Bright

Timothy Schwartz, Oneness Family School, Maryland; (4/10/2006) and The Brookfield School, Virginia (4/12/2006); elementary school group-tours of IZ collections. Sponsor: Kathryn Ahlfeld


Chung Ja Sim, Hannam University, South Korea; to study sponges in the USNM collection, in particular worldwide specimens of the genera Halichondria and Ircinia (6/6–6/30/2006). Sponsor: Klaus Ruetzler

Francisco Solis-Marin, Instituto de Ciencias del Mar y Limnología, UNAM, Mexico; to study the taxonomy and ecology of echinoderms from Mexican waters: Gulf of Mexico, Caribbean and Pacific (5/7–5/13/2006). Sponsor: Cindy Ahearn

John Starmer, University of Florida, Florida Museum of Natural History; to examine USNM holdings of echinoderms (5/18/2006). Sponsor: Cindy Ahearn

Darolyn Striley, Marine Biodiversity Processing Center, Natural History Museum of Los Angeles County, California; to gather information about moving collections and curation (5/4/2006). Sponsor: Karen Reed

Ted Suman, Research Associate in Entomology; to examine literature and specimens of terrestrial isopods (5/26/2006). Sponsor: Marilyn Schotte

Lorena Umana, Bell Multicultural High School, D.C.; to assist with Cerion land snail website project (4/6–5/26/2006). Sponsor: Yolanda Villacampa, Jerry Harasewych


Amanda Windsor, The University of Louisiana at Lafayette; to identify and process a collection of Caribbean Colombian decapods, and to consult with Lemaitre (5/31–7/7/2006). Sponsor: Rafael Lemaitre

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Lorena Umana assists with the Cerion land snail website that is being developed. Photo: Y. Villacampa.
Japan’s 124th emperor, whose reign lasted longer than any other. In 1926 he took the official name of Showa, translated as “Enlightened Peace.” As a biologist, he collected many marine specimens mainly from Sagami Bay. He intensively studied the systematics of hydrozoans and published eight papers and monographs through the Biological Laboratory, Imperial Household (BLIH). His extensive collections (other than hydroids) were also studied by specialists resulting in 13 published monographs. These included “The Crabs of Sagami Bay, collected by His Majesty, the Emperor of Japan” by Tune Sakai (1965), and “The Crustacean Anomura of Sagami Bay” by Sadayoshi Miyake (1978). Sakai reported 340 species of crabs from Sagami Bay. \(Sakai\)\textit{imperialis} (Sakai) was named in honor of the Emperor Hirohito. Miyake reported 118 species of anomurans. Emperor Hirohito’s crustacean collection is currently deposited in the Showa Memorial Museum, Tsukuba.
Visitors Continued

A Flood of Crab Identifications
Rose Gulledge

Rafael Lemaitre hosted a Ph.D. student, Amanda Windsor, from The University of Louisiana at Lafayette, 27 May to 7 July. Amanda completed a project identifying crustaceans (mainly decapods) from the Caribbean coast of Colombia. Consulting with Rafael and using taxonomic references, she was able to identify over 700 specimen lots to family, genus and/or species.

Amanda joined the lab of Dr. Darryl Felder in November 2005. Her dissertation topic is Molecular phylogenetics of problematic crabs within the superfamily Majoidae with an emphasis on the families Mithracidae and Inachidae. She received her BS in Marine Science and Biology from Coastal Carolina University in Conway, SC. While there, she completed an independent project on thermoregulatory behavior in the fiddler crab *Uca pugilator*.

Amanda’s stay at the museum was made all the more interesting by the “great flood of 2006” which proved to be only a minor setback to the completion of the project. She looks forward to returning to the museum next summer.

Former Intern Returns as Visiting Scientist
Marilyn Schotte

In 1997, Kathrin (Kat) Bolstad was a 17-year-old student at Thomas Jefferson High School in Fairfax County, Virginia. She came to the Museum via the NMNH’s Research Training Program (RTP). She applied and was accepted as an intern, and worked for a semester with the late Dr. Brian Kensley. Through her internship Kat learned the basics of isopod taxonomy and became first author on a paper describing two new species of isopods from Papua New Guinea: “Bolstad, K. and B. Kensley. 1999. Two new species of Hansenium (Crustacea: Isopoda: Asellota) from Madang, Papua New Guinea. Proceedings of the Biological Society of Washington 112(1): 164-174”. As far as anyone knew, she was then off to Wellesley College to study the history of architecture.

Then in April 2003, Kat appeared in a newspaper photo with Dr. Steve O’Shea from Auckland, New Zealand, as a co-worker on a newly discovered colossal squid caught live by fishermen in the Ross Sea off Antarctica. So what happened between 1997 and 2003? During that time Kat discovered that her real interest was in environmental science, which she double-majored in with German. The rest is history.

As a college student she worked with the New England Aquarium in Boston. Then in Auckland, New Zealand, she assisted with research on lobsters, dolphins and sharks. Since July 2004 she has been an aquarist at Kelly Tarlton’s Underwater World and Antarctic Encounter in Auckland. Her interests and experiences led her to pursue a Ph.D. with Dr. O’Shea at the Auckland University of Technology where she is working on the systematics of the squid family Onychoteuthidae. So her recent return to NMNH as a visiting scientist was to examine squid specimens for her dissertation, which she hopes to complete by the end of 2007. After that she hopes to do a post-doc in Europe (somewhere) and is considering becoming a citizen of New Zealand. Kat says that her experience at NMNH got her interested in taxonomy … it was just the beginning.

Kat Bolstad revisits the NMNH, where her interest in taxonomy began.

Photo: Y. Villacampa