

## New IZ Chair Shares Vision



IZ Chair, Rafael Lemaitre.

The editor of *NoBones* asked me to write a piece explaining “my vision” of IZ. It is a good thing anyway to start a “From the Chair” column. However, as much as I tried to look ahead, things were blurry. Given the vagaries of budgets, etc. around here, visions are something left for the imagination. I decided to discuss this problem with “Hokie”, my 2.5 lbs Yorkie dog who sometimes has more

insight into human endeavors than humans themselves. I explained that the Museum atmosphere is dense with ocean science-related initiatives, including an historic fund raising effort that has already exceeded \$50 million (\$20 more million are needed). The Ocean Hall is well on its way. There are plans for an Ocean Web Portal, and a Center for Ocean Science. The hunt is on for a prominent scientist to be appointed to the Sant Chair position. There are also overall plans for an online *Encyclopedia of Life* that according to strategic plans “will include a wealth of biological information for each species.” In other words “Hokie,” I said, “we are at a crucial time in the Museum in regard to marine sciences, and since IZ is predominantly marine in scope, and the vast majority of life body plans are in the oceans, it seems there is a lot here for us to chew on. She stared at me intensely, and rotating her head a bit seemed to ask me a question. She was right: all I can do now is ask questions. Here are a few. Your answers might shape that vision, “our vision.”

\* How will the Ocean Science Initiatives, and the appointment of a Sant Chair shape the future directions of marine science, the research of the staff, and the quality of care for the 35 million specimens in the IZ collections? Will this Chair be an invertebrate or vertebrate zoologist? a paleontologist? and evo/devoist? a theoretician? a scientist-administrator-fund-raiser? And how will the role and vision of this Chair mesh with those of IZ?

\* Will recruitment of new IZ scientists occur in the near future to assure continuity, and restructure the current demographics?

\* IZ deals with over 30 phyla (~40 are known), both marine and freshwater, yet we have scientists who work on only eight of these (or at least portions of eight). Should we diversify and expand research coverage and specialties, or hire based on the strength of our resources and

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## NEWSLETTER NO BONES

is published quarterly by the  
Department of Invertebrate Zoology  
National Museum of Natural History  
Smithsonian Institution

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## TRAVEL &amp; PRESENTATIONS

*IZ Scientists Contribute to Conferences*

Rafael Lemaitre and Chris Tudge served as co-organizers of the *Biology of the Anomura II Symposium* held July 18–19 at the International Crustacean Conference (ICC6) in Glasgow, Scotland. This was a follow-up to the symposium they organized at ICC5 in Melbourne, Australia in 2001.

Chris chaired the *Systematics and Phylogeny* session of the conference on the 18th and gave the keynote address for the session on the following day: *Taking a closer look: current and future directions in anomuran morphology and reproduction*.



Chris Tudge. Photo by ICC6 organizers.

Rafael chaired the *Morphology, Reproduction and Development* session on the 19th as well as providing the keynote address at the first session: *The state of anomuran systematics, questions and issues*.

Rafael and Chris each gave an oral presentation. In addition, they presented three posters jointly prepared with colleagues.

Martha Nizinski presented a paper on habitat specific associations between galatheid crabs and deep-sea corals off the southeastern coast of the United States).

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*Please submit news or articles via email or disk by the 15th of the month prior to publication.*

*Publication in this newsletter does not constitute publication in a taxonomic or any other scientific context.*

## COVER STORY CONTINUED

collections? Will the future IZ scientific staff be predominantly molecular, morphological, morphological/molecular, or theoretical? Will we move more into environmental conservation?

\* Museum web plans are far reaching and broad. As far as the invertebrates, will we have the technical support, and enough in-house expertise to cover the phyla to be included therein? Will we be able to expand our database to include all that we really have in the IZ collections and make this a more meaningful accomplishment?

\* Will the current level of budget and collection management staff suffice to take care of the myriad and increasingly complex albeit basic responsibilities as well as mandated tasks?

\* How will the move to MSC of wet collections and Collection Management staff—in effect splitting IZ right down the middle—effect how we operate?

\* The NMNH bar-coding wagon is underway thanks to our Museum Director's efforts to secure base funds for collection care. But how can IZ

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**Notes from the editor:** Thank you to those who responded with suggestions for improving the newsletter. DEADLINE FOR NEXT EDITION IS DECEMBER 15.

## RESEARCH

*New Post-Doc Chris Mah**Dave Pawson*

IZ is delighted to welcome Dave Pawson's new postdoc, Chris Mah, who was formerly at the University of Illinois, Department of Geology. Chris is working on a phylogenetic analysis of the Asteroidea using morphological, fossil, and molecular data. The Asteroidea includes familiar starfish, such as *Asterias*, *Pisaster*, etc. some of the more heavily studied species familiar to many experimental biologists. Chris will be with us through August 8, 2006. Information about his recent work can be found at the following websites: field work

<http://www.geology.uiuc.edu/~fossils/Chris%20pages/Hawaii.html>



*Chris on board RV Pisces V off Kona Hawaii. Photo courtesy of Craig Young.*

new species described: [http://www.las.uiuc.edu/news/2005spring/05april\\_starfish.html](http://www.las.uiuc.edu/news/2005spring/05april_starfish.html) and [http://www.calacademy.org/science\\_now/new\\_species/](http://www.calacademy.org/science_now/new_species/)

## APPRECIATION

*Thank you, Jonathan!*

It's good-bye spiders, hello hermit crabs, as Jonathan Codrington steps down from the position of IZ chair, which he graciously accepted on a short-term basis when the Department of Zoology (DZ) was reorganized in January of 2005.

During his tenure Jonathan re-evaluated the viability of the DZ concept and strengthened the collections/research connection. He "Excel-d" in organizing information gathered for many initiatives related to collections management, the new marine hall, and the eventual move of many IZ collections to the soon-to-be-constructed POD-5 at MSC.

We wish him well as he returns to his research on "the other invertebrates."

## VISITORS

**Tour by distinguished visitors focuses on USNM Antarctic collection**

On September 2, IZ hosted a presentation on the Ocean Science Initiative and a behind-the-scenes tour of our Antarctic collections for a group of 22 scientists, educators and marine policy experts. The group included 7 delegates to CCAMLR (Convention on the Conservation of Antarctic Marine Living Resources) attending a workshop on Antarctic conservation sponsored by NSF and co-hosted by NOAA. The CCAMLR delegates included representatives from the US, Belgium, Sweden, the UK, New Zealand, Russia and Australia. Joining the CCAMLR delegates were the Deputy Director of the Oceans & Environment Section of the US State Department accompanied by 5 of his staff members, and 9 staff members from NSF, including representatives from the Office of Polar Programs, BIO, and Ocean Education.

After a brief reception in the Schmitt Room, **Hans Sues** presented an overview of the new Oceans Hall and the Museum's Ocean Science Initiative. This was followed by a tour of IZ's Antarctic collections. **Steve Cairns**, **Dave Pawson**, **Chris Mah**, **Jerry Harasewych** and **Cindy Ahearn** talked about their research activities and **Bill Moser**, **Karen Reed**, **Chad Walter** and **Cheryl Bright** talked about IZ's collection management services to the international polar research community, and demonstrated EMu and IZ's ARC-GIS capabilities.

*See list of visitors on page 10*

## TRAVEL CONTINUED

**Duane Hope** attended the Society of Nematologists (SON) annual meeting in Fort Lauderdale, Florida from July 9–13. He organized and conducted a half-day workshop on marine nematodes at the invitation of the Society. The workshop involved a lecture on marine nematode ecology by a colleague, Dr. Eyualem Abebe, followed by a lecture by Duane on nematode morphology. The last half of the workshop was a practical in which the 25 participants were given an opportunity to identify marine nematodes using a new key that Duane had created previously for a book chapter now in press.

After the SON meeting, from July 14–15, Duane attended a meeting of NemaTol, the NSF funded Tree of Life project for nematology. During this meeting participants discussed the classification of marine nematodes and identified taxa whose phylogeny was most poorly known and would be priority targets for molecular analysis.

**Klaus Ruetzler, Mike Carpenter, and Molly Ryan** attended the 40th European Marine Biology Symposium (EMBS) at the Biocenter, University of Vienna, from August 21–27. Professor Jörg Ott, a marine biologist with a long-standing association with NMNH's Caribbean Coral Reef Ecosystems Program (CCRE) hosted the event and invited the CCRE group to present different aspects of the program. The principal symposium themes were *Remote and inaccessible marine habitats*; and *Advances in underwater observation and experimentation*. The event was dedicated to the 80th birthday of Rupert Riedl, an eminent marine scientist who started studying sea caves more than 50 years ago and pioneered direct underwater scientific observation and experimentation (and was Ruetzler's dissertation advisor).

Ruetzler chaired one session, *From scuba to remote observation*, which he opened with an illustrated tribute to Rupert Riedl with whom he had explored Mediterranean marine caves during the early 1960s. Toward the end of the symposium, Ruetzler contributed a paper on *Impact of environmental stress on reef and mangrove sponges*, which will be published in the Proceedings (coauthored by Sandra Duran and **Carla Piantoni**).

**Martha Nizinski** participated as a collaborating scientist on a USGS-sponsored multidisciplinary cruise in the Gulf of Mexico to examine deep-water coral reefs from September 15–21. The group sailed on the RV *Seward Johnson* out of Harbor Branch and used the submersible *Johnson Sea Link* to collect data and specimens.

On September 20 **Allen Collins** presented a paper on Systematics as a hypothesis-based science and its fundamental role in understanding oceans at the 2005 Marine Technology Society and Institute of Electrical

## PUBLICATIONS

Ardila, N. E., **K. Fauchald** and P. Lattig. 2005. *Eunice colombia* (Eunicidae: Polychaeta), a new species from the southern Caribbean. *Proceedings of the Biological Society of Washington*, 118(2):259–263.

**Cairns, S. D.** and **F. M. Bayer**. 2005. A review of the genus *Primnoa* (Octocorallia: Gorgonacea: Primnoidae), with the description of two new species. *Bulletin of Marine Science*, 77(2):225–256, 11 pls.

**Cairns, S. D.**, V. Haussermann and G. Forsterra. 2005. A review of the Scleractinia (Cnidaria: Anthozoa) of Chile, with the description of two new species. *Zootaxa*, 1018:15–46.

**Collins A. G.**, P. Cartwright, C. S. McFadden, and B. Schierwater. 2005. Phylogenetic context and basal metazoan model systems. *Integrative and Comparative Biology*, 45:585–594.

DeBose, J. L. and **M. Vecchione**. 2005. First documentation of the Roper inshore squid, *Loligo roperi* (Cohen 1976), in the Gulf of Mexico. *Gulf of Mexico Science*, 23(1):132–135.

Diaz, M.C., R.W. van Soest, **K. Rützler**, and H. M. Guzman. 2005. *Aplysina chiriquiensis*, a new pedunculate sponge from the Gulf of Chiriquí, Panamá, Eastern Pacific (Aplysinidae, Verongida). *Zootaxa*, 1012: 1–12, 3 figs.

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## COLLECTIONS

*Scanning on a grand scale**Linda Ward*

If you've been by the IZ imaging lab during the last few weeks you have probably noticed the very large, piece of equipment and wondered what it was. It is a Zeutschel OS 10000 TT large format color bookscanner that was purchased with MSC and 'Move Prep' funds from Liz Dietrich. The primary purpose of the scanner is to allow us to scan all of our catalog ledgers before the move to POD-5. Since part of the staff will remain downtown while others will be relocated to MSC it's important to be able to refer to the information in the ledgers from either location. Also, as it has recently been demonstrated in Louisiana and Mississippi it's important to have back-ups of critical documents stored in multiple locations. The scanner will be used to scan ledgers from all of the departments at Natural History, as well as for other rare, or fragile, books and documents. These types of books and documents can not be safely scanned, or may not fit, on a stan-



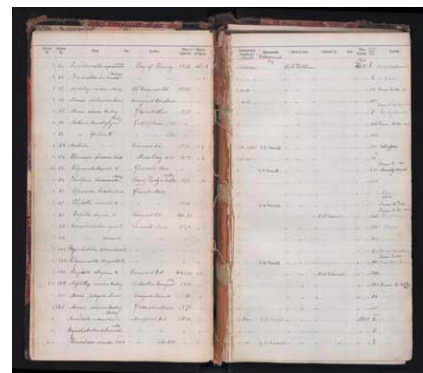
*Katie Ahlfeld scanning a ledger page. (Photo by Linda Ward)*

dard flatbed scanner. As you can see in the photo, scanning is done from above, allowing one to support the spine of the book and giving easy access to flip pages for the next scan. Since it is a large format scanner we are also able to scan both the left and right pages simultaneously, which is critical for the ledgers.

In a recent test it took less than 90 minutes to scan one entire 194 page volume and create the PDF file from the resulting tif files. The PDF file of the complete volume just fits

on one CD and has the advantage that we can recreate the entire volume in one file. When viewing the images you can zoom in to enlarge the writing, making it easier to read. An example of the PDF from one of the ledger pages is attached.

The Collections Services Staff as well as other staff members will begin scanning the ledgers very shortly. The CSS staff will have priority on the machine but if you



*Worm ledger used in scanning text. (Photo by Linda Ward)*

have a book, illustration, document or map you want to scan see Linda Ward or Karen Reed for training and scheduling.

## COVER STORY CONTINUED

best benefit from this, and how will specimens be chosen for bar-coding (types? general collections?). What will it all mean scientifically?

\* EMu is here to stay, but will it stand the test of time?

\* Plans to raise funds for marine expeditions are gathering steam. Will we be successful on a grand scale? Will we have the necessary staff to make this a reality and clearly stand again at the forefront of explorations and discovery of new invertebrate forms, so critical for evolutionary studies of deep-sea life?

If you have any clear answers, please come and talk to me in the recently renovated and retooled IZ Chair's office (W-102).

## P U B L I C A T I O N S    C O N T I N U E D

Etnoyer, P. J., **S. D. Cairns**, and 14 more authors. 2005. *Deep-Sea Coral Collection Protocols*. NOAA Technical Memorandum NMFS-OPR-28: iv + 46 pp., 25 figs.

**Ferrari, F. D.** and V. N. Ivanenko. 2005. Copepodid stages of *Euryte longicauda* (Cyclopoida, Cyclopidae, Euryteinae) from the White Sea associated with the bryozoan *Flustra foliacea*. *Journal of Crustacean Biology*, 25:53–374.

Jereb, P., **C.F.E. Roper**, and **M. Vecchione**. 2005. Introduction. In *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 1. Chambered nautilus and sepioids (Nautilidae, Sepiidae, Sepiolidae, Sepiadariidae, Idiosepiidae and Spirulidae)*, pp. 1–19. FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 1. FAO, Rome.

Kitahara, M. V. and **S. D. Cairns**. 2005. *Monohedotrochus capitoli*, a new genus and species of solitary azooxanthellate coral (Scleractinia, Caryophyllidae) from southern Brazil. *Zoologische Mededelingen*, 79(3):117–123.

**Lemaitre, R.** 2005. Remarks on the life and works of Fenner A. Chace, Jr. (1908-2004), with a list of his taxa and complete bibliography. *Crustaceana*, 78(5):621–639.

**Lemaitre, R.**, and N. Cruz Castaño. 2005. A new species of *Pagurus* Fabricius, 1775 from the Pacific coast of Colombia, with a checklist of the eastern Pacific species of the genus. *Nauplius*, 12(2):71-82.

**Lemaitre, R.**, and H. Watabe. 2005. *Pagurus ikedai* (Crustacea: Anomura: Paguridae), a new hermit crab species of the *bernhardus* group of *Pagurus* Fabricius, 1758 from Japanese waters. *Zootaxa*, 819:1-12.

McLaughlin, P. et al. 2005. *Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Crustaceans*. American Fisheries Society Special Publication 31, xiii and 545 pages. (Several sections by Crustacea staff, **Brian Kensley** (deceased), **Rafael Lemaitre**, **Elizabeth Nelson**, and **Marilyn Schotte**)

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## T R A V E L    C O N T I N U E D

and Electronics Engineers Meeting. The paper was written by J. A. and A. C. Collins. The meeting was held from September 18–23 in Washington, D.C.

**Jon Norenburg** participated in the Marine Barcoding Workshop hosted by STRI at the Bocas del Toro facility September 25–30. The event was convened by Nancy Knowlton and Biff Bermingham. Also in attendance were Valerie Paul, of the Smithsonian Marine Station at Fort Pierce, and Lee Weigt, of the NMNH molecular laboratory. A wide variety of non-SI researchers participated. The focus of the workshop was the prospect of inventorying the biota of one or more coral reefs and cataloging it with genetic “barcode” data. This would be a very large undertaking for the relatively well-known biota for which there is substantial taxonomic expertise in the world.

A major emerging issue was what to do about the almost unknown diversity of the less charismatic and largely unstudied groups of plants and animals (never mind microbes), most of which also are relatively cryptic in habitat. For instance, a small bucket of coarse sediment may include several hundred species representing 10-15 phyla of animals, for most of which there is little to no taxonomic expertise available. Assessing diversity among other organisms faces similar challenges. The workshop served to identify the major challenges, which individuals or groups will now explore further. Participants expect to generate a proposal for an inventory and barcoding initiative.

## VISITORS CONTINUED

*Summer Visitors Bring New Perspectives*

(Left to right): Steve Cairns and Jorge Cortes, visiting Fulbright Scholar. Photo by Tim Coffey

Staff had the opportunity to enjoy several interesting seminars focusing on marine research given by visiting scientists this summer:

**Vreni Häussermann** and **Günter Försterra**, Huinay Scientific Field Station: *Biodiversity of the Chilean Fjords*, July 19.

**Jorje Cortès**, Universidad de Costa Rica, San Jose: *A history of marine research in Costa Rica*, July 20.

**Cindy Van Dover**, College of William and Mary, *The Blake Ridge chemosynthetic seep system: From geophysics to ecology*, August 22.

Dr. **Jorge Cortés** visited NMNH from May 2 to July 30, 2005. Jorge is a researcher at the Marine Science and Limnology Research Center and professor at the School of Biology, both at the University of Costa Rica in San José. He is on sabbatical and received a Fulbright Scholar Fellowship for this visit. Jorge is working on the shallow water azooxanthellae corals of the Caribbean and Pacific coasts of Costa Rica with **Stephen Cairns**. He is also doing research for several publications and used the Natural History Library. This work included an annotated bibliography of publications on marine invertebrate biodiversity of Costa Rica as well as research done on marine environments of Costa Rica, mainly coral reefs.

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## LIBRARY

## NEW TITLES:

## INVERTEBRATE LIBRARIES

July 1–August 31, 2005

Bryan, Jonathan R. **Larger Foraminifera: Common Taxa: Late Middle Eocene to Oligocene**. Florida Fossil Invertebrates Part 7. Gainesville: Florida Paleontological Society, 2005.

**Catalogues of the Collections in the Showa Memorial Institute, National Science Museum, Tokyo, No. 1: Type Specimens Described in Publications from the Biological Laboratory, Imperial Household, Tokyo, Japan**. Tokyo: National Science Institute, 2002.

**Catalogues of the Collections in the Showa Memorial Institute, National Science Museum, Tokyo, No. 2: Specimens of Hydroid Species Described by the Showa Emperor Hirohito**. Tokyo: National Science Institute, 2004.

**Crustacea and Arthropod Relationships: Festschrift for Fredrick R. Schram**, Stefan Koenemann and Ronald A. Jenner, eds. *Crustacean Issues* 16. Boca Raton: CRC Press/Taylor and Francis, 2005.

Dissart, Bernard H. **Crustacés Copépodes des eaux Intérieures**. Faune de Madagascar 58. Paris: ORSTOM, 1982.

Hendrickx, Michel E. **Contributions to the Study of East Pacific Crustaceans, Vol. 3**. Mexico: Instituto de Ciencias del Mar y Limnología, 2004.

Höckelmann, Claudia **Flüchtige organische Verbindungen (VOC) benthischer Cyanobakterien als Attraktanzien und Repellenzien von Nematoden**. (Ph.D. – Universität Zürich). Zürich: Universität Zürich, 2003.

Melo, Gustavo Augusto Schmidt de. **Manual de Identificação dos Crustacea Decapoda de Água doce do**

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## P U B L I C A T I O N S

Markhaseva, E. L. and **F. D. Ferrari**. 2005. A new species of *Lucicutia* and taxonomic status of *L. grandis* (Copepoda, Calanoida, Lucicutiidae). *Journal of Natural History*, 39:1077–1100.

Maslakova, S. A., M. Thiel, N. Vàsquez, and **J. L. Norenburg**. 2005. The smile of *Amphiporus nelsoni* Sanchez, 1973 (Nemertea: Hoplonemertea: Monostilifera: Amphiporidae) leads to a redescription and a change in family. *Proceedings of the Biological Society of Washington*, 118(3):483–498, figures 1–8.

Stein, D. L., J. D. Felley, and **M. Vecchione**. 2005. ROV observations of benthic fishes in the Northwind and Canadian Basins, Arctic Ocean. *Polar Biology*, 28:232–237.

## V I S I T O R S    C O N T I N U E D

**Research Visitor Information:**

**Susan Adams**, USDA-USFS; studied crayfish from Mississippi (July 1, 2005). **Sponsor: Karen Reed.**

**Louise Allcock**, Marine Systems Research Group, School of Biology and Biochemistry, Queen's University, Belfast, Ireland; worked on deep-sea octopods (July 05–15, 2005). **Sponsor: Mike Vecchione.**

**Marcos Barbeitos**, State University of New York at Buffalo; studied and photographed scleractinian corals (July 20–August 20, 2005). **Sponsor: Steve Cairns**

**Rebecca Belcher**, Auburn University, Department of Biological Sciences; studied Antarctic brittle stars (June 13–July 15, 2005). **Sponsors: Dave Pawson/Cindy Ahearn**

**Milena Benavides**, University of Puerto Rico, Department of Marine Science, studied Caribbean echinoderms for doctoral program (July 20–August 20, 2005). **Sponsor: Dave Pawson**

**Kathleen Bennett**, Cooper Graphics; *Pinna* fiber research (September 19, 2005). **Sponsor: Ellen Strong**

**Jaret Bilewitch**, Natural History Museum, Bermuda Aquarium and Zoo; learned how to identify octocorals from Bermuda (July 5–9, 2005). **Sponsor: Steve Cairns**

**Raymond W. Bouchard**, Patrick Center for Environmental Research, The Academy of Natural Sciences, Philadelphia, accompanied by **Judith Bouchard**; studied crayfish of Pennsylvania to update a checklist. (August 1–3, 2005). **Sponsors: Cheryl Bright/Karen Reed**

**James Boutillier**, Pacific Biological Station, Nanaimo, British Columbia, Canada; conferred with Drs. Cairns and Opresko on deep-water benthic cnidarian identification (July 5–8, 2005). **Sponsor: Steve Cairns**

**James Carlton**, Williams College, Mystic Seaport, Connecticut; Examined Cerithidae, Bataralidae and oyster collection specimens (July 28, 2005). **Sponsors: Jerry Harasewych/Yolanda Villacampa.**

**Edith Chave**, NOAA; consulted with Steve Cairns to identify photographs of deep-sea corals from Hawaii (September 20–23, 2005). **Sponsor: Steve Cairns**

**Stephanie Clark**, University of Alabama; Studied Physidae (August 5–19, 2005). **Sponsor: Ellen Strong**

**Brad Deline**, University of Cincinnati, Department of Geology, Ohio; examined USNM holdings of *Democrinus* and *Hyocrinus* (September 15, 2005). **Sponsor: Dave Pawson**

**David Drennen**, collector; Viewed Mollusk dry collections (Cypaeidae, Conidae); interested in donating Panamic seashells—Pacific coast of western hemisphere (July 6, 2005). **Sponsor: Yolanda Villacampa**

**William Fenzan**, an independent researcher from Norfolk, Virginia; Photographed American Cone types (August 22–24, 2005 and September 2, 2005). **Sponsor: Jerry Harasewych**

**Günter Försterra**, Huinay Scientific Field Station, Chile; worked on anemone (Anthozoa, *Actiniaria*) systematics. (July 11–21, 2005) **Sponsor: Allen Collins.**

**Dr. Victor Gallardo** Vice Chair, International Scientific Steering Committee, Census of Marine Life, COPAS; Universidad de Concepción, Chile, accompanied by **Ariel Gallardo**; IZ research (March 24–September 10, 2005). **Sponsor: Kristian Fauchald.**

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## VISITORS CONTINUED

- Vreni Häussermann**, Huinay Scientific Field Station, Chile; worked on anemone (Anthozoa, Actiniaria) systematics. (July 11–21, 2005)  
**Sponsor: Allen Collins**
- Elaina Jorgensen**, NOAA/NMFS Alaska Fisheries Science Center, studied cephalopod collections (September 12–16, 2005). **Sponsor: Mike Vecchione**
- Hartman Joseph**, University of North Dakota; Photographed freshwater clams (August 11–16, 2005). **Sponsor: Bob Hershler.**
- Eric Lazo-Wasem**, Peabody Museum of Natural History, Yale University; Returned several outstanding loans, deposited a paratype lot of Porifera, and brought specimens of Hexactinellida (Porifera) from New England sea mounts for Dr. Allen Collins (NOAA) and *Ozobranchus* sp. (Hirudinea) from the Turtle Epibont Project for Bill Moser to identify. Bill also gave him a tour of the MSC facility. (September 21, 2005).  
**Sponsor: Bill Moser**
- Alberto Lindner**, Duke University; stylasterid research; consulted with Steve Cairns; photographed types of Dana corals (August 17–31, 2005).  
**Sponsor: Steve Cairns**
- Patricia Lindner**, Duke University; photographed Dana coral types (August 17–20, 2005). **Sponsor: Steve Cairns**
- Mario Londoño-Mesa**, ECOSUR, Chetumal, Mexico; Studied types and other specimens of terebellid polychaetes (August 30–September 9, 2005).  
**Sponsor: Kristian Fauchald.**
- Charles Lydeard**, (Rotator at NSF), University of Alabama, Department of Biological Sciences; Studied decapod crustaceans of the family Chirostylidae (galatheid anomurans (squat lobsters)). (one day/week visits, August 25, 2005–August 25, 2006). **Sponsor: Rafael Lemaitre**
- Chuck Messing**, Nova Southeastern University, Oceanographic Center, Dania, Florida; researched echinoderms from the Straits of Florida as well as other invertebrates (August 1–6, 2005). **Sponsor: Dave Pawson**
- Edisa Nascimento**, Instituto de Biociencias, Universidade de Sao Paulo; worked with Duane Hope to identify marine nematodes from coastal Brazil. (August 8–19, 2005). **Sponsor: Duane Hope**
- Dennis Opresko**, research associate, Oak Ridge National Laboratory, Tennessee; studied antipatharian collection (July 5–12, 2005).  
**Sponsor: Steve Cairns**
- Janet Reid**, Virginia Museum of Natural History; ongoing copepod research using reprints from Wilson Copepod Library. (July 2–November 2, 2005). **Sponsor: Rafael Lemaitre**
- Anja Schultze**, Smithsonian Marine Station, Ft. Pierce, Florida; Post-Doc (July 2–November 2, 2005). **Sponsor: Kristian Fauchald.**
- Jyotsna Sharma**, University of Texas, San Antonio; worked with Duane Hope to identify marine nematodes from the Gulf of Mexico. (August 8–13, 2005). **Sponsor: Duane Hope.**
- Artem Sinev**, Department of Invertebrate Zoology, Biological Faculty, Moscow State University; Studied cladocerans from the collection at MSC and

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## LIBRARY CONT.

**Brasil.** São Paulo: Museu de Zoologia Universidade de São Paulo, 2003.

Neubert, Eike and Gosteli, Margret  
**Molluscan species described by Robert James Shuttleworth, 2: Polyplacophora, Gastropoda (Caenogastropoda), Bivalvia.** Contributions to Natural History: Scientific Papers from the Natural History Museum Bern No. 5. Bern: Naturhistorisches Museum der Bergergemeinde, Bern, 2005.

**Premier Séminaire International sur la Grande Nacre de Méditerranée: *Pinna nobilis*, 10-12 octobre 2002, Île des Embiez, Var, France.** Mémoires de l'Institut océanographique Paul Ricard. Marseille: Institut océanographique Paul Ricard, 2003.

Rennie, John V. L. **Lamelibrânquios e Gastrópodos Cretácico Superior de Angola.** Memórias Série Geológica I. Lisboa: Imrensa Nacional de Lisboa, 1945.

Vernon, J. E. N. and Safford-Smith, Mary. **The Zooxanthellate Scleractinian Corals of the World.** **Townsville:** Australian Institute of Marine Science and CRR Qld Pty Ltd, 2002.



*Coenobita clypeatus* (Herbst), a hermit crab figured in Chace and Hobbs, 1969.

## VISITORS CONTINUED

- used the literature in the Frey Cladoceran Library (June 16–July 15, 2005). **Sponsor: Frank Ferrari.**
- Igor Smirnov**, Russian Academy of Sciences, Zoological Institute; conducted systematics project on polar ophiuroid collections, especially USAP material, resulting in Echinoderms collection improvement (July 8–August 8, 2005). **Sponsor: Dave Pawson.**
- John Starmer**, University of Florida, Florida Museum of Natural History, Malacology and Invertebrate Zoology Division; examined USNM holdings of the sea cucumber families Stichopodidae and Synallactidae (September 20–23, 2005). **Sponsor: Dave Pawson.**
- Ted Suman**, Research Associate in Entomology; Examined literature and specimens of terrestrial isopods (May 26, 2005). **Sponsor: Marilyn Schotte**
- Wesley Thorsson**, Hawaiian Malacological Society (editor of Internet Shell News); Photographed type specimens of Columbelloidea (September 12–19, 2005). **Sponsor: Jerry Harasewych**
- Istvan Urcuyo**, Gettysburg College, Department of Biology (with two students); identified crustacean and mollusk specimens collected in Costa Rica. (August 1–3, 2005). **Sponsor: Cheryl Bright**
- Cindy Van Dover**, College of William and Mary; made a comparative examination of specimens in alcohol collection (August 22–23, 2005). **Sponsor: Cheryl Bright.**
- John Wilk**, Field Museum of Natural History, Chicago; Studied marine bivalves, examined types and general collection, revised Isognomonidae (July 20–22, 2005). **Sponsors: Jerry Harasewych/Ellen Strong.**
- Joana Zanol**, George Washington University; Ph.D. student working on eunicid polychaetes (August 5, 2002–August 5, 2007). **Sponsor: Kristian Fauchald.**

*NSF-CCAMLR workshop participants on September 2:*

- Ray Arnaudo**, Deputy Director, U.S. Department of State–Oceans and Environment; Head of U. S. delegation to the Antarctic Treaty and CCAMLR
- U. S Department of State–Oceans and Environment Section: **John Field, Ann Gordon, Nancy Jameson, Mike Powers, and Meredith Westington**
- NSF Participants:** Office of Polar Programs: **Renee Crain** (Arctic Section); **David Friscic, Polly Penhale, and Pamela Toschik; Valentine Kass**, Education Directorate; **Charles Lydeard**, Biological Sciences; **Gisele Muller-Parker**, Associate Program Director, Ocean Education, Ocean Sciences; **May Dylan Sullivan**, Truman Fellow in Ocean Education, Ocean Sciences Division

- International Contingent:** **Alexandre de Lichtervelde**, Federal Public Service, Public Health, Food Chain Security and Environment International Affairs, Belgium; **Bo Fernholm**, Swedish Museum of Natural History, Sweden; **Susie Grant**, Scott Polar Research Institute, University of Cambridge, United Kingdom; **Janine McCabe**, Ministry of Foreign Affairs and Trade, New Zealand; **Ewan McIvor**, Australian Antarctic Division; **Ben Sharp**, New Zealand Fisheries; **Konstantin Shust**, Federal Research Institute of Fishery and Oceanography (VNIRO), Russia

*Crustaceans in the Press*

The *Times OnLine* (Scotland) reported the following on July 17, 2005: As you read this, nearly 500 passionate crustacean-lovers are putting out feelers in Glasgow at the Sixth International Crustacean Congress, earnestly discussing an invasion of American crayfish, the secret of high-quality supermarket scampi and even details of a prehistoric shrimp found in a pond in Dumfries.