

SPNHC NEWSLETTER

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SPNHC

ADVANCING COLLECTIONS CARE

**Society for the Preservation
of Natural History Collections**

March 2009
Volume 23, Number 1

Scientific Collections: Mission-Critical Infrastructure for Federal Service Agencies

Executive Summary from the report of the
Interagency Working Group on Scientific Collections (IWGSC)

Beginning in 2005, the White House Office of Science and Technology Policy (OSTP) and Office of Management and Budget (OMB) called on Federal agencies to focus attention on integrated support and planning for their care and use of Federally held scientific collections. Based in part on these recommendations, an Interagency Working Group on Scientific Collections (IWGSC) was created, co-chaired by representatives of the Smithsonian Institution (SI) and the U.S. Department of Agriculture (USDA) to examine the current state of Federal scientific collections and to make recommendations for their management and use. This report is a first step in ensuring that this vital research infrastructure is preserved and strengthened for the benefit of both our country and the global scientific research enterprise. This report describes the nature and state of these collections and the issues they face as part of the nation's research infrastructure. It also makes recommendations about improving the care and management of these assets.

Object-based scientific collections (hereafter referred to as "scientific collections") are valuable components of the Federal government's and the Nation's research infrastructure, alongside buildings, scientific instruments,

and human resources. Scientific collections, as discussed in this report, consist of physical objects that are preserved, cataloged, and managed by Federal agencies and other organizations for research and other purposes. Scientific collections do not include art or historical objects, collectibles, or the books and documents that are stored in libraries and archives. The specimens in scientific collections were acquired as objects for scientific study, not for their aesthetic or market value as collectibles. In general, the contents of these scientific collections are documented and publicized with the goal of making the specimens available to other members of the research community for study.

Scientific collections are preserved because they document the results of research, and allow earlier findings to be confirmed and extended. Scientific collections are often re-analyzed using new instruments and techniques, providing new data and insights from old specimens. Collections provide irreplaceable evidence of long-term historical trends, allowing researchers to make predictions into the future. Scientific specimens can also have unanticipated relevance to research being con-

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ducted in fields other than the one for which they were collected.

Permanent scientific collections serve a number of general functions:

1. As “vouchers” from earlier observations or findings. A voucher specimen is one on which critical analyses and observations have been performed, and it is likely that future researchers will want to either repeat these analyses to corroborate published findings or to apply new analytical techniques.
2. As standards. Some specimens become permanent references that must be retained for future comparison. For example, the National Institute of Standards and Technology (NIST) of the Department of Commerce retains the standard reference specimens for weights and measures. USDA, SI, the National Institutes of Health (NIH), and other agencies retain biological scientific collections that serve as reference standards for identifying species that are critical to protecting
3. America’s food sources. As one example, NIH supports laboratories that preserve microorganisms for study from standard “type cultures” and with known genetic signatures. “Type specimens” of a species of plant, animal, microbe, mineral or rock type are the reference examples of the species that are formally described and attached to its name.
4. As sources of specimens for biological research, conservation, and food security. Some Federal and Federally-supported scientific collections comprise living organisms. These scientific collections include type culture scientific collections, seed banks and plant germplasm repositories, genetic stock centers, zoos, captive breeding programs, and other biological resource centers.
5. As repositories for rare objects. Federal scientific collections also include specimens that record unique events in history and/or unique opportunities to collect specimens. These specimens cannot be replaced and if they are not properly cared for important research opportunities will be lost forever. Such rare objects include such things as moonrocks and specimens of flora and fauna collected by the Lewis and Clark expedition.
6. Sources of ideas and study specimens for education and training. Scientific collections are routinely used by undergraduate and graduate students as research

material for theses and dissertations. In this way, Federal scientific collections are having an important impact on professional training of future researchers. Scientific collections have also inspired and informed educators in their development of curriculum and instructional materials for students at all levels. Museum exhibits draw on scientific collections for public education, and radio and television coverage of important research findings are frequently based on scientific collections.

7. Some agencies proactively collect samples for future analysis or experimental use in line with their missions. These are important for documenting diversity and variability in nature. Such samples are also critical resources for epidemiology and research in clinical medicine.

Scientific collections provide an excellent return on the taxpayers’ investments. Federal agencies consider the following in making decisions about the numbers and sizes of the collections they maintain:

- Immediate access to collections: Urgent problems can call for immediate access to scientific data. Maintaining scientific collections can provide users with immediate access to critical specimens.
- Replacement costs: The passage of time, technical challenges, or prohibitive costs make it all but impossible to replace the contents of a collection when it is needed at a later date. Some locales may be physically inaccessible for a variety of reasons.
- Irreplaceable object: Many specimens collected decades ago can no longer be recollected because the locality has either disappeared or a species has gone extinct.
- Critical Redundancy: Research organizations keep collections in different places and maintain large collections of similar specimens for several reasons such as in the event of natural disaster.
- Research is a distributed enterprise: Federal research serves a wide range of constituencies and issues. To serve their mission efficiently, researchers and the collections they use need to be located in many different places.
- Variation in nature: Studying the variability within and among biological populations and geological specimens often reveals the processes that underlie their nature; this study of variation is a basic component of the scientific method. Large sample sizes are often needed in order to make statistically significant interpretations.
- Safety in numbers: Scientific collections of living specimens reduce the risk of catastrophic loss by guaranteeing that a pool of genetic variability is available to protect and ensure diversity, and to ensure the

This space could be yours.....

SPNHC Newsletter is looking for articles, news items, etc., for the next edition. Articles of 1000 words or less considered. Contact Andy Bentley (ABentley@ku.edu) for information. The deadline for submissions for the next issue is August 1, 2009.

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Presidential Report

Rich Rabeler

**Senior Collections Manager and
Assistant Research Scientist**
University of Michigan Herbarium,
3600 Varsity Drive, Ann Arbor, MI
48108-2228 USA



Richard K. Rabeler was born in Oneonta, New York. His interest in natural history collections began in 1971 at Hartwick College, where he designed an Independent Student Program in Botany and worked in the Hoysradt Herbarium for most of his undergraduate years. After he graduated from Hartwick, he entered graduate school at Michigan State University, where he completed his M.S. and Ph.D. degrees in plant systematics. Along the path to completing his Ph.D, he also taught biology at Lyman Briggs College (a residential college at MSU) and served briefly as Assistant Program Manager for the Systematic Biology Program at the National Science Foundation.

In 1987 Rabeler came to the University of Michigan, initially working at both the University Herbarium and Matthaei Botanical Gardens. He became a Collections Manager at the Herbarium, where he has been involved in collections care and facilities oversight for the past 20 years. He played key roles in both the compactor installation in 1995 and moving the collection to an off-campus facility in 2002.

Rabeler has been active in SPNHC since 1995 and is a member of six professional botanical societies. He is a specialist in the Caryophyllaceae (the Pink family), interested in North American floristics involving both native and introduced taxa. Another activity is his involvement in the Flora of North America project, where he is a member of the Board of Directors and is a lead editor for two forthcoming volumes. He is married to Karen E. Studer-Rabeler, Vice-President for Business Development, Coy Laboratory Products. They share their home in Grass Lake, Michigan, with two cats.

Besides the challenges of winter weather that many of us are facing, many of you undoubtedly are dealing with the challenges that the world financial climate has brought to our doorsteps. I hope that our membership (and our institutions) can weather this storm without major losses but, as we have seen during earlier financial squeezes, that is not always possible.

Plans are still proceeding for our 2009 meeting with several European associations on 6-11 July 2009 in Leiden, The Netherlands. Our hosts will be the National Natural History Museum Naturalis and the Leiden University Medical Centre (LUMC). The theme of the meeting is "Bridging Continents: New Initiatives and Perspectives in Natural History Collections." Watch the conference website (<http://www.spnhc2009.org/>) for deadlines and the latest information about what our hosts have planned! I hope that many of you will be able to join us for this meeting and interact with our European colleagues.

It is time for the annual election, this time for two Members-at-Large, and we are using an on-line system for the first time. Kelly Sendall, Election Chair, will be monitoring the system; success of the on-line election would allow the Society to save the effort and costs of mailing the paper ballots and election information for nearly all of our members. Be sure to participate – help make it a success and help guide the Society through your votes.

As many of you may have noted, the United States Interagency Working Group on Scientific Collections (IWGSC) recently released a report on the status of collec-

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The **Society for the Preservation of Natural History Collections** was formed in 1985 and is recognized as a non-profit organization [501(c)(3)] in the United States. SPNHC members receive *Collection Forum*, a biannual journal of reviewed technical information, and two issues of the *SPNHC Newsletter* each year. The Society for the Preservation of Natural History Collections (SPNHC) is a multidisciplinary organization composed of individuals who are interested in development and preservation of natural history collections. Natural history collections include specimens and supporting documentation, such as audio-visual materials, labels, library materials, field data, and similar archives. The Society actively encourages the participation of individuals involved with all aspects of natural history collections.

The **SPNHC Newsletter** (ISSN 1071-2887) is published twice a year, March and September, by the Society for the Preservation of Natural History Collections, c/o Division of Ichthyology, Natural History Museum & Biodiversity Research Center, University of Kansas, Dyche Hall, 1345 Jayhawk Boulevard, Lawrence, KS 66045-7561, USA.

Changes of address should be directed to SPNHC Treasurer, Planetarium Station, PO Box 526, New York, NY 10024-0526, USA.

Submissions are welcome. Please forward announcements, articles and notes to the Newsletter Editors by mail or email.

Deadline for the next Newsletter is August 1, 2009.

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.....Presidential Report*

tions held by Federal Agencies (see the feature article in this issue for an executive summary). The report elicited quite a bit of discussion among SPNHC Council and Chairs and, as a result, I am going to appoint a Federal Collections Sessional Committee to study the SPNHC response to the report. The charge for the Committee is found elsewhere in this issue.

COMMITTEE REPORTS

Conservation Committee

General Information

Conservation Advocates are individuals with particular expertise who are willing to give practical advice to colleagues when queried about preservation and conservation. If you have expertise in a particular area and are willing to have questions forwarded to you, please contact Victoria Book (vbook@ou.edu). You don't have to be a Conservator to be a Conservation Advocate.

Update your **Emergency Plan!** If you need guidance, would like to see some examples, or have a plan that may be helpful to other collections and institutions, please contact Victoria.

Subcommittee Reports

1. Resources Display Units Subcommittee: Co-Chairs: (US) Cindy Ramotnik ; (Canada) Kelly Sendall

General information on both the USA and Canadian Resources Display Units is available at <http://www.spnhc.org/resource/index.html>. A detailed list of the products on the Canadian Resources Display Unit is available at <http://www.spnhc.org/opencms/opencms/spnhc/resource/linkedddocuments/CDNresources.htm>. If you are interested in finding out more about the Resources Display Units or to request a loan for collections-based meetings, conferences, and workshops, please contact Cindy or Kelly at the addresses above. Also, if you have a suggestion regarding content please let us know.

We are beginning to research feasibility of a European unit. Considerations will include a European location to house the unit, and someone who can easily keep up with products and availability in European countries. If you live in Europe and are would like to help, please contact Victoria Book.

2. Adhesives Historical Research Subcommittee: Chair: Jude Southward

The purpose of the adhesives sub-committee is to collect information about adhesives used historically in natural history museums. To further this activity, the Denver Museum of Nature & Science has begun to gather and inventory adhesives

used within its various collecting disciplines. An inventory form for broader use will be developed from this activity.

3. Fluids Historical Research Subcommittee: Chair: Andy Bentley

Discussions and progress on this with Barcoding of Life (who were spearheading this effort) appear to have stalled. Hopefully we can pick this up again in the near future.

Respectfully submitted,
Victoria Book, Chair

Documentation Committee

The Documentation Committee has changed leadership. Julie Droke has stepped down as co-chair and the committee would like to acknowledge her service and contributions to the committee. The committee would like to welcome Liz Leith as the new co-chair. She is the collection manager in the Department of Archaeology at the Sam Noble Oklahoma Museum of Natural History.

The Citations Subcommittee, formerly of the Conservation Committee, is now under the guidance of the Documentation Committee. The committee would like to welcome Terri Jordan as the new chair of this subcommittee. She replaces Liz Leith. She is the collection manager in the Department of Native American Languages at the Sam Noble Oklahoma Museum of Natural History. Please see below for her subcommittee report.

We are currently evaluating the committee's goals to determine what projects need to be addressed and how best to prioritize them. One topic of interest is using the SPNHC website as a portal for information, allowing members to have access to already existing resources covering museum documentation (policies, standards, procedures, missions, etc.). If you have specific suggestions of quality websites or documents available via the web, please contact any member of the committee so we can develop a more comprehensive listing.

Additionally, we are trying to post some guidelines and checklists pertaining to specimen acquisition, accessioning, transportation, and destructive sampling. These are based on current documents used by member institutions. The goal is to streamline this information so that members can utilize them as a starting point for their own institutional needs.

As the committee continues to develop its goals, we will be searching for members who can serve as liaisons between other organizations and the committee.

Anyone interested in joining the Documentation Committee or contributing ideas is invited to contact the co-chairs, Liz Leith (etereba@ou.edu) or Marcy Revelez (mrevelez@ou.edu).

Citations Subcommittee Report – Chair: Terri Jordan

The Citations Subcommittee of the SPNHC Documentation Committee has undergone some changes – namely, with Elizabeth Leith's acceptance of the Documentation Committee co-chair position, Terri Jordan was invited to take over the chairmanship of the Citations Subcommittee. Terri Jordan is the Collection Manager for Native American Languages at the Sam Noble Oklahoma Museum of Natural History, and is looking forward to working with the citations group. Projects currently being undertaken include work with the Citations database constructed by Elizabeth Leith and the development of a preliminary controlled vocabulary for natural history collections.

Respectfully submitted,
Marcia Revelez and Liz Leith, Co-chairs

Legislation and Regulations

Coming soon to the SPNHC website: the Legislation and Regulations Committee continues to work on getting the new PERMIT-L host site up and running. The new site is being set up by James Macklin and will be moderated by Sally Shelton. PERMIT-L is a forum for all issues related to scientific collecting permits and permitting, managed by and for the natural history collection community in universities, museums, and government agencies. James has been working on getting PERMIT-L online in the best and most useful format possible. We hope that this will be live by the time of the meeting.

Respectfully submitted,
Sally Shelton, Chair

Web Committee

Several initiatives are underway to improve the functionality of the site and present more content.

Highlights include, a membership database which has been incorporated into the website, and will allow members to manage their own data making the treasurer's job a little easier. Current members will receive information about how to log in and manage their personal data in the near future. We will also be setting up and evaluating a new communication tool called a forum to replace the Permit-L listserv. Look for an announcement on NHCOLL. We now have nearly complete archives of Collection Forum those will be available very soon, and all the Newsletters are scanned and available on the site.

The Committee is grateful to Ann Molineux for making great strides in reorganizing and updating content in several areas of the site. Please send worthy news items or job advertisements to Ann Molineux at annm@austin.utexas.edu.

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Membership

Membership applications for Individuals (US\$35), Student, certified (US\$20), Subscription or Library (US\$45), Corporate/Commercial (US\$300) or Institutional (US\$65) may be submitted to:

*SPNHC Treasurer
Planetarium Station
P.O. Box 526
New York, NY 10024-0526
USA*

Be sure to include the following information:

*Name, Discipline Specialty, Institution
Address (Street, City, State/Province, Country, Zip/
Postal Code)
Voice, Fax, E-mail address*

Payment may be made by cheque, money order, Visa or Mastercard.

Membership application/renewal form by portable document (Adobe Acrobat Reader required) and by Word file available at: <http://www.spnhc.org/files/renewal-2008.pdf>.

Life Membership

The SPNHC Life Membership is a special membership category for those interested in the long-term financial stability of our organization. Life membership monies are invested towards the future goals of the Society. SPNHC life memberships are available for US\$875. The fee is 25 times the Individual Membership rate, currently US\$35. Life Memberships may be paid in one of three ways:

- (1) one-time payment of US\$875;
- (2) two-year installments of US\$475/1st year and US\$400/2nd year;
- (3) three-year installments of US\$420/1st year, US\$280/2nd year and US\$175/3rd year.

Please contact the Treasurer should you require further information about life memberships.

Treasurer

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.....Committee Reports*

As always, if you are interested in helping to produce or identify content for the website we would love to hear from you.

Respectfully submitted,
James Macklin, Ann Molineux and the Web Committee

SESSIONAL COMMITTEE REPORTS

Federal collections

Following the release of the report on the status of collections held by agencies of the United States government, interest among the SPNHC Council and Chairs suggested that we should investigate how SPNHC can contribute.

President Rich Rabeler has appointed a Federal Collections Sessional Committee with the following charge:

Charge: Using the report on Collections held by Federal Agencies recently released by the US Interagency Working Group on Scientific Collections (IWGSC), this committee shall:

- Examine the report in depth and identify areas/issues raised by this report where SPNHC can contribute our expertise.

- Meet in Washington, DC, with the Interagency Working Group about the report, expertise that SPNHC can offer, and possibly including time with someone from the White House Office of Science and Technology Policy.

- Prepare a report, possibly jointly with NSCA, conveying the importance of investing funds to get our professional expertise engaged to fix the issues.

Watch future issues of this newsletter for information on the accomplishments of this group.

Scholarships and Grants

The Sessional Committee on Scholarships and Grants was established in 2008 to investigate funding possibilities for establishing a scholarship program aimed at either meeting attendance or mentorship for participants from developing countries. The Committee is chaired by Chris Norris (Yale University) and includes Andy Bentley (University of Kansas), Sue Butts (Yale University), and Lisa Palmer (NMNH). It is due to meet in April 2009 and to present its recommendations to Council at the Leiden meeting in July. Anyone wishing to submit comments or suggestions to the Committee is welcome to do so by emailing the chair at christopher.norris@yale.edu.

NEW DIRECTOR GENERAL OF ICOM

On 1 October 2008, Julien Anfruns took up his duties as Director General of the International Council of Museums (ICOM), the largest international organisation of museums in the world.

Four major missions: According to Alissandra Cummins, President of ICOM, "Julien Anfruns has the qualities and experience required to stimulate ICOM, to extend the impact of its network, and to unite our network of museum professionals all over the world. "

Along with his managerial and administrative duties at the International Council of Museums, Julien Anfruns will act as its operational and intellectual head through four fundamental missions:

- To act as the spokesperson of ICOM, and to promote the Organisation's position as a reference for members of the museum community.
- To strengthen the network of museum professionals with the aim of building up the reputation, scope and visibility of ICOM within the museum community.
- To seek financial support from private sponsors and public partners.
- To strengthen the efficiency of ICOM in order to consolidate and improve all services and programmes carried out by the Organisation.

Established in 1946, ICOM is at present the only entity of an international scale, composed of all museum professionals. With over 26,000 members from 151 countries, ICOM has become a world network of museum professionals representing all disciplines and specialisations. ICOM facilitates exchanges between professionals through the work of its committees which function at regional, national and international levels, and in this way contributes to the development of museums. The actions taken by ICOM, articulated in its Strategic Plan reflect the challenges and needs of the profession and focus on the following themes:

- Setting and disseminating professional and ethical standards.
- Fighting illicit traffic of cultural property by publishing awareness-raising tools.
- Building capacity among museum professionals (and local communities) in facing natural and man made disasters.
- Celebrating the International Museum Day every year on May 18th.

ICOM - International Council of Museums / Conseil international des musées Maison de l'UNESCO 1, rue Miollis 75732 Paris cedex 15 - France; Email: secretariat@icom.museum.

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reintroduction and replenishment of the genetic stock.

Findings of the IWGSC

The IWGSC reported the following findings based on the results of the survey of Federal scientific collections, its other activities, described above, and the extensive knowledge of collections possessed by the IWGSC members.

Federal agencies own and maintain diverse scientific collections. These scientific collections are essential to supporting agency missions and are thus vital to supporting the global research enterprise.

Most Federal scientific collections continue to grow at regular, predictable rates, but adequately trained support staff and funding resources are declining.

There is a lack of documentation of the contents and conditions of some Federally-owned scientific collections.

Scientific collections are generally accessible for scientific research or other uses, but collection databases are not widely developed and Web access to collection information is still in its infancy.

Agencies varied widely in the degree to which they have developed written policies concerning the management and use of Federal scientific collections.

Scientific collections have impacts in areas that were unrelated to their original purposes. These impacts can be difficult to foresee.

Meeting the financial and staffing needs of managing Federal scientific collections can require trade-offs among different competing agency responsibilities.

In response to competing priorities and limited resources, Federal agencies have developed a variety of strategies and business models for long-term management of scientific collections.

The legal status of and legislative authority behind some Federal scientific collections is not well understood by some agencies.

The curators of scientific collections are developing specimen databases that are increasingly integrated and interoperable.

Some but not all Federal scientific collections are developing their own specimen databases.

While some Federal agencies have been leaders in standardizing data, the degree to which Federal and non-Federal collection databases can communicate with one another is highly

variable.

Recommendations

1. *The IWGSC recommends that agencies with scientific collections work as necessary to support their missions to develop realistic cost projections for collection maintenance and operation, and work to incorporate the needed support as stable budget elements.*
2. *The IWGSC recommends that agencies improve both the documentation of the contents of their scientific collections and access to the documentation on the internet.*
3. *The IWGSC recommends that agencies exchange documents that describe their scientific collections policies, procedures, and best practices in order to minimize the effort needed for agencies to develop collection-specific policies and procedures.*
4. *The IWGSC recommends a review of the legal and legislative basis for the Federal role in scientific collections, thereby clarifying agency responsibilities.*
5. *The IWGSC recommends the creation of an online clearinghouse of information about Federal scientific collections.*
6. *The IWGSC recommends that a periodic report on the status and condition of the scientific collection infrastructure be prepared and submitted to the Committee on Science, OSTP, and OMB.*
7. *The IWGSC recommends that the NSTC Committee on Science continue the work of the IWGSC beyond its March 2009 expiration, to facilitate the implementation of these recommendations and explore options for a mechanism to provide the means to coordinate and improve Federal collections over the long-term.*

Next Steps

Scientific collections are by their nature backward-looking. They record our history and allow us to confirm past findings, but we create collections and maintain them as an investment that will benefit future generations. The recommendations in this report will put in place a system for monitoring and improving the condition of Federal scientific collections and will promote improvements in management, documentation and curation.

Providing the facilities, workforce, and curatorial support needed to adequately maintain Federal collections will probably require increased and focused investments by some agencies.

Nevertheless, the IWGSC is convinced that these additional investments will provide even greater returns by improving Federal research that serves the U.S. taxpayer and the global community.

For the full report go to: http://www.ostp.gov/galleries/NSTC%20Reports/Revision_1-22_09_CL.pdf



SPNHC

ADVANCING COLLECTIONS CARE

02 March 2009

Dear SPNHC Member

Let your vote be counted at the SPNHC AGM on Friday 10 July 2009, at 8:30 am at Naturalis in Leiden, The Netherlands.

You can't get to Leiden? No problem! Make your vote count by assigning your proxy to someone else.

First, you and your proxy must be voting members of SPNHC. We will check your status when you send in this form, so don't worry about the details. However, you **MUST** send the hand-signed form to us by either mail or fax before 1 July 2009 so your form can be presented at the AGM. If you miss this deadline, your proxy voter may present this form to the SPNHC Secretary **NO LATER** than noon on Thursday, 9 July 2009.

Simply fill out the form (see over) to make your vote count!

Thanks!

Mail the form:
Judith C. Price
Secretary, SPNHC
Canadian Museum of Nature
PO Box 3443, Station D
Ottawa, ON K1P 6P4
Canada

OR Fax the form:
(613) 364-4027

Announcement of Annual Business Meeting and Instrument of Proxy

NOTICE OF ANNUAL GENERAL BUSINESS MEETING

The 24th Annual Business Meeting of the Society for the Preservation of Natural History Collections will be held on Friday 10 July 2009, at 8:30 am at Naturalis in Leiden, The Netherlands.

Please visit: <http://www.spnhc2009.org/>

AGENDA

1. Call to Order
2. Minutes of the 2008 General Business Meeting
3. Report of the Treasurer
 - 3.1 Financial Report
 - 3.2 Appointment of Auditor
4. Report of Council meetings
5. Report of the President
6. Reports of the Standing Committees
7. Reports of the Sessional Committees
8. Unfinished Business
9. New Business
10. Recognition and Grants
11. Change of Office
12. Announcements
13. Adjournment

If you cannot attend the meeting, you may designate another member in good standing to act on your behalf. Please fill out the form of proxy below and give it to the person named or forward it by 1 July 2009 to:

Mail the form:
Judith C. Price
Secretary, SPNHC
Canadian Museum of Nature
PO Box 3443, Station D
Ottawa, ON K1P 6P4
Canada

OR Fax the form:
(613) 364-4027

INSTRUMENT OF PROXY

I, the undersigned member of the Society for the Preservation of Natural History Collections (SPNHC), hereby appoint _____ (please name a SPNHC member in good standing who can represent your views at the meeting) or, failing him/her, Judith Price, Secretary of the Society, to vote on my behalf at the Annual Business Meeting of the Society on Friday 10 July 2009, at 8:30 am at Naturalis in Leiden, The Netherlands.

Date _____ Signature _____

Name (please print) _____

US National Park Service Biological Collections Forum

In April 2008, the US National Park Service (NPS) held a Biological Collections Forum at which representatives of the NPS, five professional societies (including SPNHC), and several major natural history collections met to discuss the importance of collections made on NPS lands and ways to improve the cooperation between NPS personnel, scientists, and collections personnel.

We are pleased to announce that the minutes of the meeting are now available on the SPNHC website (<http://www.spnhc.org>). If you look toward the bottom of the "Latest News" box, you will find a link that will open a PDF. We have added (and had Ann Molineaux activate) an outline using the Adobe "bookmarks" feature which will allow you to see the major sections/topics and presentations.

AAM Opens a Portal to the Future

The American Association of Museum's new Center for the Future of Museums challenges museums to envision a better future for society and help make it a reality. The CFM report "Museums & Society 2034: Trends and Potential Futures", examines factors that will profoundly affect our world in the next twenty-five years, and how museums may respond. It depicts a future in which the dramatically older, multi-ethnic demographic of American society challenges museums to embrace universal design and become more relevant to "minority" populations. Rising energy prices may force museums to prioritize sustainable design and practice, while a prolonged recession and continued stratification of wealth compel them to explore new financial models. The plummeting cost of digitization creates an explosion of virtual culture, confronting museums with choices regarding what to curate and preserve, both physically and digitally. As the ubiquity of interactive gaming and web 2.0 social networking fosters a new generation's expectation that they build their own narrative experience, museum audiences question the old paradigm of curatorial authority. To document a wide variety of opinions on these and other topics, CFM's Voices of the Future project encourages interesting people from various fields to videotape and share their thoughts on the future of museums and society. (Chris Norris, Senior Collections Manager of Vertebrate Paleontology, has contributed one of the first video interviews.) To read more about these and other initiatives, download and comment on the trends paper, and view the Voices of the Future videos visit www.futureofmuseums.org.

USGS Arid Lands Field Station Herpetology Data

We are pleased to announce that the collection of amphibians and reptiles curated by the U.S. Geological Survey (USGS) Arid Lands Field Station in Albuquerque has been integrated into the Herpetology Division at the University of New Mexico's Museum of Southwestern Biology (MSB). Specimen data have been merged and the combined database of 86,602 records is now available online through several portals, including HerpNet <www.herpNet.org>.

With more than 12,300 fluid-preserved specimens and 200 skeletons, the USGS collection contains large holdings from Colorado (40%), Nevada (32%), and Nebraska, Arizona, Utah, and California (18% combined). The collection includes early (1920-1940s) reference specimens for studies of food habits (skeletons) collected by Charles C. Sperry, as well as the Colorado State University herpetological teaching collection, with specimens collected by Dave Pettus, A.W. Spencer, D.D. Post, and T.P. Maslin. A large series (3,500) of reptiles collected from the Nevada Test Site in the 1960s was catalogued in 2008 and includes many side-blotched lizards (*Uta stansburiana*) and Western whiptails (*Aspidoscelis tigris*), as well as other lizards and snakes. These specimens were donated by USGS scientist Phil Medica. Drs. Bruce Bury and Steve Corn of USGS have provided vital support to the collection in many ways during their studies in the western United States. Voucher specimens from surveys of national parks on the Colorado Plateau are the most recent acquisitions and were collected in support of the National Park Service Inventory and Monitoring Program.

The USGS collection was relocated from Fort Collins, Colorado, to Albuquerque, New Mexico, in 2000 when MSB collections moved to a renovated facility. Specimens previously cited in the published literature with the acronym BS/FC (Biological Surveys Collection/Fort Collins) have been assigned MSB catalog numbers and are cross-referenced with the original BS/FC catalog number. While the specimens are property of the U.S. Department of the Interior, and primary responsibility for their care and management will rest with USGS, integration of the specimens and their associated data with MSB facilitates their use by the greater scientific community.

Information and loan requests can be directed to collection managers Tom Giermakowski (MSB) at tomas@unm.edu; (505) 277-5130, and Cindy Ramotnik (USGS) at ramotnik@usgs.gov; (505) 277-5369.



SPNHC

ADVANCING COLLECTIONS CARE

SPNHC Membership Profile

We are continuing with our new series: Membership Profiles. Our members play many different roles from collection management and conservation to databasing and informatics to research and education. Most of our members come from a traditional research background while many new members are coming into the field from the museum studies field. Our hope is to introduce our membership to a variety of individuals who are playing very dynamic roles in their museum's activities. We are casting our net broadly and selecting individuals from institutions of all sizes and backgrounds.

SPNHC MEMBERSHIP PROFILE

SNAPSHOT

What is your name? Martyn Linnie.

What is your position? Chief Technical Officer (Dept of Zoology) and Curator (Zoological Museum).

Where do you work? University of Dublin, Trinity College.

How many years have you been working in this capacity? Approximately 20 years.

When did you join SPNHC? Can't remember, a long time ago (maybe 15 years).

IN-DEPTH

What drew you to the natural history field? I have always been fascinated with animals. Working in a Zoology Department and particularly my role as Curator of the museum is pretty much a labour of love.

Describe the nature of the collections you work with. It is entirely zoological based, approx 25K specimens. Much of the collection dates back over two hundred years and contains fine examples of extinct and endangered species including a well documented specimen of the Great Auk (extinct 1844).

What are your responsibilities for them? It is very much a one man operation; most of my routine is based around managing the resources of the Zoology Department. In my 'spare' time I have complete responsibility for the care and development of the museum. It is an active teaching museum and provides an invaluable resource for our undergraduate students.

Describe some of your activities. Recently the focus has been on the complete refurbishment of the museum. We raised around 30K Euro through our friends and alumni, had to replace all the cases and prepare completely new exhibits, based around all the animal groups from insects to elephants!

What do you find most interesting about your work? Working with a collection of such historic significance and the satisfaction of contributing to its long term security and integrity.

What accomplishments are you most proud of? The final product! A really attractive, small, but important museum. Also, the completion of a report on its status and history: a long process of five years research. Hopefully, it will raise awareness and provide a platform for its long term development. I was also delighted to complete my doctorate in 2000 on biodeterioration in museum collections with particular emphasis on integrated pest management.

What do you find most fulfilling about your work? Working on a collection that was clearly in freefall and need of a major overhaul. We are not completely there yet, but like many of its contemporaries, it could have gone either way.

What have you learned from SPNHC to be particularly helpful? How has SPNHC helped you? Articles on conservation and routine care of collections, the sharing of knowledge and a type of kinship that arises from interested groups with similar problems and issues.



The Great Auk, *Alca impennis*, extinct 1844, Zoological Museum, Trinity College Dublin; from left to right: Dr. Martyn Linnie, Curator; Sir David Attenborough; and the British Ambassador to Ireland, Mr. David Reddaway.

New Website for Paleontological Collections Management

Now available on-line at <http://collections.paleo.amnh.org/>, the Paleontology Portal Collections Management module is a central resource on collection management for anyone who has an interest in fossil collections, from museum and lab professionals, to amateur collectors, to school and university students. Here you'll find information on how to help make sure that your fossils are obtained legally; how to ensure that they are properly stored and documented; and how to make them accessible to people who want to use them for study, education, or exhibit. The site is arranged in four major sections (acquiring, storing, tracking, and sharing) with a glossary and extensive links to other on-line resources. If you are responsible for a fossil collection in an institution, have a private collection, are thinking about a career in paleontology, or just are interested in what museums do with all those fossils, *this site is for you.*

The Paleontology Portal Collection Management Module was developed by Rachael Perkins Arenstein and Chris Norris and supported by the National Science Foundation through a grant to John Flynn and Chris Norris (NSF EAR-552256). It forms part of the Paleontology Portal Project (<http://www.paleoportal.org>). A second module, dealing with fossil preparation, is currently under development for launch in 2010.

COLLECTION FORUM

Manuscripts Needed!!

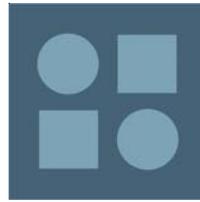
Have you invented a new way of doing something in your collections? Documented something like a collections move or disaster recovery? Share your expertise and your experiences with your fellow SPNHC members by writing it down and submitting it to [Collection Forum](#), the ideal venue for publishing on natural history and collections topics. Papers can be of any length.

Instructions to authors are available on the SPNHC web site. If you would like to discuss your ideas for possible papers, or if you have one ready to submit, contact the managing editor Jean DeMouthe at (415) 379-5258 or jdemouthe@calacademy.org.

Reviewers Wanted!!

[Collection Forum](#) needs reviewers! Are you willing to read and comment on papers submitted for the SPNHC journal, [Collection Forum](#)? It is an interesting task that will allow you to use your vast knowledge of natural history and collections care for a very worthwhile cause.

If you are interested, please contact Collection Forum managing editor Jean DeMouthe at (415) 379-5258 or jdemouthe@calacademy.org.



SPNHC Newsletter Advertising

Why Advertise in the SPNHC Newsletter?

Members of SPNHC are the people who use your products and services. They are often the decision makers about products and procedures that will be used in their institutions. These people want to know about products and services that will help them do their jobs more effectively. They are interested in the latest techniques and materials available, as well as educational and travel opportunities, new publications, and events and programs related to natural history and collections.

All advertisements should be submitted as .tif or .pdf files, formatted for a PC. Ads can be placed in one sixth, quarter, half or full page. It is recommended that image resolution be 300 dpi. Electronic files may be e-mailed or sent on a disk to the newsletter editor, at abentley@ku.edu. Any necessary printers charges will be billed to the advertiser. Payment must accompany the insertion order and tear sheets will be sent after publication.

There is limited space in each Newsletter (maximum two full pages of advertising total), and space will be allotted on a first-come, first-served basis. Ad placement is at the discretion of the editor. So, do not delay, and post your ad today! More information can be found on the SPNHC website - www.spnhc.org.

DON'T FORGET TO VOTE BEFORE APRIL 3!

The 2009 election is almost over. If you have not voted yet there is still time. If the email address you submitted with your membership application to the Treasurer is correct, you should have received an email from Elections Online as a prompt to vote online. If you did not get the email then you should contact our Treasurer, Barb Brown at bbrown@amnh.org to correct it. Then all will be good for next year. Included in the email was a link to their site and your username and password (generated by Elections Online for this one purpose). Once on their website you can see and read the candidates CVs. You don't have to vote after logging on the first time. You can go back to the site as often as you like to see the candidate CVs. Your logon rights disappear only after you submit the electronic ballot. Once you submit your ballot a confirmation email is sent to let you know all went well. The process is extremely simple. As the election progresses I can log on to see how many members have voted and for who. But the actual ballots remain confidential. With one month to go before elections close, 37.5% of members have voted!!

As in past years a paper ballot is still acceptable, if you prefer, but hurry because time is running short. And don't forget to include your name and return address on the envelope to Margaret or Kieran.

Kelly Sendall, Chair, Election Committee



. naturalis



LEIDS UNIVERSITAIR MEDISCH CENTRUM

24th annual meeting of SPNHC

Bridging Continents

New Initiatives and Perspectives in Natural History Collections

6 - 11 July 2009, Leiden, The Netherlands

Important news and dates to remember

- Film director Peter Greenaway giving keynote performance on 8 July
- Early bird registration before 5 May
- Abstract submission deadline extended to 5 April
- Online vendor registration now open (look at our sponsor offers)

Introduction

The National Museum of Natural History Naturalis and the Leiden University Medical Center LUMC are very pleased to organize the 24th annual meeting of SPNHC. Our aim is to bring together curators and managers from natural history collections on all continents.

Bridging Continents presents new, large-scaled infrastructure projects in natural history collections, the state-of-art in collection care and best practice and the latest on digitization of collections and much more.

Broad international interest

Various international societies and project groups have shown interest to participate in SPNHC 2009, such as the European Distributed Institute of Taxonomy (EDIT), the International Council of Museums – Committee for Conservation (ICOM-CC), and the Natural Sciences Collections Association (NatSCA).

After three months, visitors and online registration statistics of the conference website reflect a worldwide interest in the conference covering almost all continents.

Your local hosts

Naturalis is the National Museum of Natural History of the Netherlands. The collection of over 13 million zoological, paleontological and geological objects dates back to the 18th century and ranges from specimens collected during the voyages of Captain Cook in the South Pacific and Von Siebold and Bürger in Japan, to marine and terrestrial collections from expeditions to South-East Asia as recent as 2008. Presently, about 60 scientists and curatorial staff are actively involved in studying and preserving the valuable collections. An equal number of staff is involved in modern exhibitions and education (www.naturalis.nl).

The Leiden University Medical Center (LUMC) is a modern knowledge center. The more than 7000 staff members of the LUMC are passionate about improving patient care through scientific research. The LUMC offers courses of instruction and continuing education to train medical doctors for this purpose. With patient care and research labs under one roof, patients, doctors and researchers collaborate to develop new treatment methods. The LUMC also houses the Anatomical Museum covering 400 years of research and education in human anatomy, embryology, teratology, pathology, parasitology and physical anthropology.

Naturalis and LUMC offer small and large conference rooms equipped with the latest AV technology.

Conference venue

Leiden's atmosphere is largely determined by the first university in Holland (1575), which has developed into a world-famous center of science, while its many students contribute to the lively and convivial atmosphere in the city. When walking through Leiden its rich history still seems very much alive. This is where Rembrandt was born and developed his painting skills and where Clusius brought the first Dutch tulips into flower. And here too, the Pilgrim Fathers settled before finally heading for America. 2009 commemorates the 400th anniversary of trade between the Dutch and the Japanese. For the city of Leiden, with several museums housing large Japanese collections, this is an important event to which attention will be paid in exhibits in these museums.

Leiden has a large number of shops, cozy cafes and stylish restaurants in the historic city center. Also, every Wednesday and Saturday a large general market is held along the banks of the Rhine, a market that has existed for over 900 years!

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.....SPNHC 2009...*

It is only three minute's walk to the congress venue from Leiden Central Station, which has a direct 15 minute train connection to Schiphol Airport in Amsterdam. Most of the selected hotels are within walking distance of both the conference venue and the historic city center.

Program

Paper and poster presentations are scheduled on the 8th and 9th of July. Bridging Continents will focus on large-scaled infrastructure projects in natural history collections. A general session on Wednesday 8 July will therefore be dedicated to projects such as the European Distributed Institute of Taxonomy (EDIT). EDIT links 28 European natural history collections and taxonomic institutions by joint research projects, the development of common tools and agreed collections management policies and procedures. We welcome contributions of other network and infrastructure projects in natural history collections to exchange experiences and to investigate opportunities for cooperation.

Bridging Continents will of course also cover the whole spectrum of standards and best practices in collection management and care and will try to link collection managers from all over the world. Papers and posters about these important subjects are very welcome for presentation.

Keynote speakers

With two quite different keynotes, Bridging Continents promises to be an interesting and compelling meeting. The internationally renowned film director Peter Greenaway (www.petergreenaway.info) will give a keynote performance at the official opening of the conference. A representative of the Dutch government is invited to give a keynote speech about the Netherlands Center of Biodiversity, an ambitious project bringing together the five major natural history collections of the Netherlands under one roof in Leiden.

Special interest groups and workshops

On Friday 10 July, attendees can join one of the following discussion groups:

- Collections Ownership, Legal Issues and Access
- Building Bridges of Learning and Experience
- Software Toolkit Demonstration Session
- Digital Photography
- International Regulations and Loan Policy
- DNA-Barcoding and Destructive Sampling
- Cultures of Collecting, the Undervalued Cultural and Historical Significance of Biology Collections
- New Developments in Fluid Preservation

On Saturday 11 July, four workshops are scheduled about developing standards and best practices in fluid collections, labels, digitization and digital measuring.

Conference dinner

The conference dinner will take place in the Leiden Arsenaal on Thursday 9 July and *nomen est omen*: As Bridging Continents is the main subject of this conference, come and taste the various flavors of traditional cooking from different continents at the conference banquet! Party to the music from Down-under to Up-town beats - the ideal ambiance to tighten your business relationships and bump into new friends.

Pre-conference field trips

The local conference committee is pleased to offer you a top pick in Dutch cultural and natural highlights.

Neeltje Jans and Kinderdijk

More than half of the Netherlands lies below sea level. The Delta Works were built to keep everyone safe and to prevent a recurrence of the 1953 flood disaster. You can relive history at Deltapark Neeltje Jans: from the flood disaster to the construction of the Delta Works. Exhibitions, films and a visit to the storm surge barrier itself will give you an impression of the stupendous power of water.

The Netherlands is famous for its windmills. Today there are still more than 1000 mills. Nowhere in the world will you find as many windmills together as near the Dutch village of Kinderdijk. Around 1740 no less than 19 sturdy mills were built here. They have been well preserved to the present day. In 1997 the mills of Kinderdijk were put on the World Heritage List of UNESCO.

Train and museum boat trip to Amsterdam

You will travel by train for 30 minutes from Leiden to Amsterdam. In Amsterdam you will go by boat through the canals. You will visit the Anne Frank House, Van Gogh Museum, the Rijksmuseum and the Netherlands Institute for Cultural Heritage (ICN) in the new Atelier Building.

Meijndel and Panorama Mesdag

The Meijndel Dunes are among the most important coastal areas of the Netherlands, with a primarily open dune landscape with brushwood. The larger dune valleys also support woodlands, e.g. the valleys of Meijndel, Bierlap and Kijfhoek. Vincent van Gogh lived here between 1882 and 1883. The most important functions of the area are: nature protection, collection of drinking water, coastal defence and recreation.

Panorama Mesdag is a cylindrical painting, more than 14 meters high and 120 meters in circumference. The vista of the sea, the dunes and Scheveningen village was painted by one of the most famous painters of the Hague School, Hendrik Willem Mesdag. It is the oldest 19th century panorama in the world in its original site, and a unique cultural heritage item.

Teylers museum Haarlem and bicycle tour

The Teyler Museum, located in Haarlem, is the oldest museum in the Netherlands. The museum is in the former home of Pieter Teyler van der Hulst (1702–1778).

Haarlem is famous for its many *hofjes*: almshouses built around courtyards. By bicycle you will discover the city of Haarlem.

SPNHC 2009, don't miss it!

Join us to make Bridging Continents the largest event in Europe dedicated to natural history collection preservation, management, and strategies. You will meet old friends and new colleagues from natural history museums all over world. Share your ideas and experiences with them.

We welcome you to the charming city of Leiden, university town since 1575, birthplace of Rembrandt and hometown of the Dutch Constitution. Discover a world of canals and bridges, of tradition and innovation, of making things possible.

Register now: www.spnhc2009.org

Putting University Collections to Work in Research and Teaching: UMAC's 9th International Conference 10-13 September 2009, Berkeley, California

University Museums and Collections (UMAC) occupy a critical nexus within the university, serving as they do all of the university's primary missions of research, teaching and public service, which correspond roughly to the user groups of students, faculty and non-academics. Having devoted the 8th International UMAC conference to the public face of university collections, we turn this year to consider their relationships to and roles in research and teaching.

According to the 1952 *Polski Słownik Archiwalny* - the Polish Archival Dictionary - the archive is:

"... an institution called upon to guard, collect, sort, preserve, keep and render accessible documents, which, although they are no longer useful on a daily basis as before, nonetheless merit being preserved."

It is worth considering the relevance of this definition to the status of university museums and collections. The archival role of public museums, their responsibilities to preserve the material heritage they contain, seems clear enough. In the case of university museums and collections, however, the description of being "no longer useful on a daily basis as before" is seldom accurate. Very frequently, the objects held in academic collections are still quite actively used in research and in the classroom. The dividing lines among the accumula-

tion of objects in individual faculty laboratories, departmental teaching collections and fully-fledged university museums are blurry. Indeed, university museums are full of objects, specimens and artifacts that entered the university in the course of faculty research and teaching activities. In justifying the relevance (and in some cases even the continued existence) of university collections, their ongoing utility in relation to the teaching and research missions can be paramount.

We particularly welcome presentations from the full range of university collections: universities are very different from public museums in containing research materials that may be lodged in formal museums, departments, and individual faculty labs and offices, and that span the full disciplinary range of the university. This multiplicity of collections, and the slip-page among them, has created challenges and opportunities that may be analyzed and even celebrated as part of the unique culture and history of university museums. How do collections respond to changes in their user communities, to conflicting demands by different user groups, or to changing research technologies? Collections of historical scientific instruments are good examples of artifacts that have shifted from being research tools (in the sciences) to objects of research themselves (in the humanities). How might these sorts of transformations be encouraged? What are some examples of renewed scholarly or scientific activity that have resulted from either new museum initiatives? How can preservation as a primary mission be balanced with active research and providing classroom access? We encourage papers that give an historical perspective to these questions, papers that address instances of current programs, difficulties and successes, and papers that suggest new models for developing the research and teaching potential of museum collections for diverse user communities.

- Where are university collections and museums placed within the administrative structure of the university? Are they allied to one particular department or discipline, or are they free-standing in their research affiliations? How has administrative placement affected research uses, demands by different user groups, and other functions of the museum? How can collections make themselves more visible to new scholars and students so that they can maximize their research potential?

- All disciplines change over time, asking new questions, employing new methods and exploring new objects. Inevitably this means that the relationships of material collections to their disciplines also shift. How have these changes affected the research potential of collections? One dramatic instance in recent decades has been the emergence of increasingly sophisticated forms of DNA analysis, which have changed not only the nature of cladistics but also transformed the relevance and viability of natural history collections.

- Interdisciplinary and multi-disciplinary collaborations are now at the forefront of most research, even in the humanities. How

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University Collections Conference

have such collaborative research programs affected the use of collections?

- How are collections used for teaching? Are there accessibility issues that must be solved? In particular, how are they made available to undergraduates for research as well as teaching or display purposes? Are there instances where public or community groups become involved in the teaching or research functions of the museum? How can university museums and collections best convey the findings of current research to students and the general public? Can and should the research mission of a museum be integrated into its public mission?

Further information will be provided on UMAC's website: <http://publicus.culture.hu-berlin.de/umac/2009/>.

Call for Papers

UMAC is currently inviting submissions for oral and poster papers focusing on the Conference's theme Putting University Collections to Work in Research and Teaching. Papers may be presented in three forms:

- a) 15 minute formal talks
- b) 10 minute informal 'experiences'
- c) posters

Authors of papers will be asked to participate in a discussion session following the presentation. The language of the conference will be English.

If you would like to offer a paper, please send an abstract (in English) to: Mark Meadow, Chair of the 2009 Review Committee, meadow@arthistory.ucsb.edu, or Cornelia Weber, UMAC Chair, chair@umac.icom.museum. Abstracts will be accepted electronically until March 31, 2009. If you wish to present a paper please supply us with the following information:

- Title of submitted paper
- Type of paper: 15 minutes, 10 minutes or poster
- Name(s) of Author(s)
- Affiliation(s) & full address(es)
- Email, phone & fax of corresponding author
- Abstract in English (not to exceed 300 words)
- Support equipment required

All submissions will be considered by the Review Committee who will assess each abstract for relevance to the theme and clarity of ideas and expression.

Authors of papers accepted will be asked to give UMAC the right to publish the paper on UMAC's website and in the conference proceedings *University Museums and Collections 3/2010* (see: <http://edoc.hu-berlin.de/umacj/>). All presenters must supply a digital copy of their paper on arrival in Berkeley and before their paper is presented.

Public Regional Workshop on Conservation of Insect Collections For Museums and Owners of Private Collections

Sponsored by Fairbanks Museum and Planetarium, St. Johnsbury, VT - May 29, 2009

This half-day workshop in the Northeast Kingdom of Vermont, conducted by conservator Catharine Hawks, will focus on issues related to the preservation of entomology collections. The workshop is designed to increase conservation awareness and to promote practical preservation procedures for all types of entomology collections. Teaching methods will include lectures with PowerPoint presentations, handouts, examination of collections, and examination of sample materials for storage and display. Topics to be addressed include:

- Brief review of the stability of materials that comprise specimens, specimen containers, supports, and labels;
- Mechanisms by which agents of deterioration act on entomology specimens, supports (e.g., pins, envelopes) and labels, and mechanisms to avoid, block, and mitigate these agents;
- Guidelines for selecting appropriate storage containers, supports, labeling materials, and other materials for entomology collections;
- Uncomplicated tests for use in assessing materials to be used with these collections (handouts);
- Emergency salvage for entomology collections damaged by natural or man-made disasters (handouts);
- Question and answer period.

For questions regarding workshop, please call Mary B. Prondzinski, Director of Collections: (802) 748-2372 x110

This workshop is made possible by a grant from the U.S. Institute of Museum and Library Services.

Robert Waller

Robert Waller retired from his position as Chief, Conservation at the Canadian Museum of Nature though he remains an Associate of the museum. To avoid boredom in retirement Rob got married in Cuba at Christmas, started the company Protect Heritage Corp. which provides teaching and consulting in collection risk assessment and management and took on a Sessional Adjunct Professor position at Queen's University Art Conservation Program to replace Alison Murray while she is on sabbatical. Rob can be reached at: Protect Heritage Corp., 622 Simoneau Way, Ottawa, ON K4A 1P4, Canada; email: rw@protectheritage.com.

IATA Excepted Quantity Regulations in 50th Edition

Andy Bentley

University of Kansas Biodiversity Institute, Dyche Hall, 1345 Jayhawk Blvd, Lawrence, KS 66045; abentley@ku.edu

IATA regulations for Excepted Quantities have been revised in the new edition of the IATA regulations (50th Edition). Here I outline the changes and how they affect the shipment of natural history specimens.

NB: Remember, you need to be trained and certified in dangerous goods handling, packing and shipping in order to use these regulations to ship dangerous goods in excepted quantities internationally or domestically. Institutions also need to be registered with FedEx, UPS or DHL in order for them to handle such packages.

The Section of the regulations dealing with Excepted Quantities is still 2.7. Thank you to Brendan Sullivan at IATA for providing additional information regarding specific UN numbers. Brendan (who attended our SPNHC 2008 meeting round table on dangerous goods) together with Dave Brennan has been a great help in our endeavors to sort out issues regarding the international shipping of fluid preserved natural history specimens. The wording of a large proportion of the regulations has changed and is now less vebose and easier to understand.

There are three sections that have changed significantly that have potential or immediate implications for us:

1. Section 2.7.2.2 Dangerous Goods Permitted in Excepted Quantities - Specific UN numbers have been added to some of the sections. None of our standard substances are listed here but please check to ensure that any of the UN numbers listed in Class 3 (UN 1204 – nitroglycerine in alcohol, UN 2059 - nitrocellulose solution and UN 3473 - fuel cell cartridges) do not apply to you before shipping. Not likely, but still worth a mention!!
2. Table 2.7.A - This table in the old version of the regulations was a generic table by Class/Division and Packing Group and outlined allowable quantities of inner and outer packages:

**TABLE 2.7.A
Excepted Quantity (Limits) Inner and Outer Packaging (2.7.5)**

PACKING GROUP OF THE SUBSTANCE CLASS or DIVISION of PRIMARY or SUBSIDIARY RISK*	PACKING GROUP I		PACKING GROUP II		PACKING GROUP III	
	Inner	Outer	Inner	Outer	Inner	Outer
1: Explosives	Forbidden					
2.1: Flammable gas	Forbidden					
2.2: Non-Flammable, non-toxic gas	See Note ^b					
2.3: Toxic gas	Forbidden ^c					
3: Flammable liquid	30 mL	300 mL	30 mL	500 mL	30 mL	1 L
4.1: Self reactive substances	Forbidden					
4.1: Other flammable solids	Forbidden		30 g	500 g	30 g	1 kg
4.2: Pyrophoric substances	Forbidden		Not Applicable		Not Applicable	
4.2: Spontaneously combustible substances	Not Applicable		30 g	500 g	30 g	1 kg
4.3: Water reactive substances	Forbidden		30 g or 30 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L
5.1: Oxidisers	Forbidden		30 g or 30 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L
5.2: Organic peroxides ^d	Not Applicable		30 g or 30 mL	500 g or 250 mL	Not Applicable	
6.1: Toxic substances — inhalation	Forbidden		1 g or 1 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L
6.1: Toxic substances — oral	1 g or 1 mL	300 g or 300 mL	1 g or 1 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L
6.1: Toxic substances — dermal	1 g or 1 mL	300 g or 300 mL	1 g or 1 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L
6.2: Infectious substances	Forbidden					
7: Radioactive material ^e	Forbidden					
8: Corrosive materials ^f	Forbidden		30 g or 30 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L
9: Magnetized materials	Forbidden					
9: Other miscellaneous materials ^g	Not Applicable		30 g or 30 mL	500 g or 500 mL	30 g or 30 mL	1 kg or 1 L

This has now been changed to the following in the new version and is based entirely on the specific UN numbers involved:

Excepted Quantity Codes (IATA Manual Table 2.7A)

Code	Maximum Quantity (inner package)	Maximum Quantity per outer package
E0	Not permitted	Not permitted
E1	30g / 30ml	1Kg / 1L
E2	30g / 30ml	500g / 500ml
E3	30g / 30ml	300g / 300ml
E4	1g / 1ml	500g / 500ml
E5	1g / 1ml	300g / 300ml

You are now required to look up the UN number of the particular substance you are shipping in the dangerous goods table and find the “E” code for the relevant packing group of that substance. The substance may only be shipped if an “E” number appears in the relevant column in the dangerous goods table. As supplied by Brendan, here are the entries for ethanol, isopropanol, denatured alcohol and formaldehyde (in concentrations greater than 25%) – the most common substances we ship using this method.

- Ethanol - Class 3, Packing group II (concentration of 90% and above) is code E2 which according to Table 2.7.A allows 30ml inner/500ml outer package.
- Ethanol - Class 3, Packing group III (concentration less than 90%) is code E1 which according to Table 2.7.A allows 30ml inner/1000ml outer package.

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.....IATA regulation changes

- Isopropanol - Class 3, Packing Group II (concentrations higher than 40%) is code E2 which according to Table 2.7.A allows 30ml inner/500ml outer package.
- Denatured alcohol - Class 3, Packing Group II is Code E2 as above.

Formaldehyde (at concentrations greater than 25%) - Class 8, Packing Group III is Code E1 which according to Table 2.7.A allows 30ml inner/1000ml outer package.

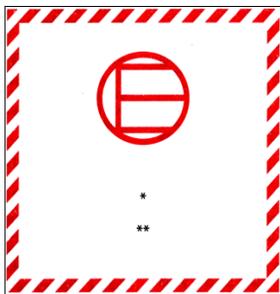
According to the dangerous goods table, formaldehyde at concentrations less than 25% but greater than 10% is considered Aviation Regulated Liquid (UN 3334) while concentrations less than 10% are not regulated. However, Brendan did mention that this may still fall into the classification of UN 3334 due to the following catch phrase in the wording of this regulation:

“Any material, which has narcotic, noxious, irritating or other properties such that, in the event of spillage or leakage on an aircraft, could cause extreme annoyance or discomfort to crew members so as to prevent the correct performance of assigned duties. The materials included under this proper shipping name must not meet any of the definitions for Classes 1 through 8.”

So, in general nothing has changed for the substances in question but, for all other substances, the new method would need to be used in order to check quantity requirements.

This is an improved system as it relies on the flammability risk of the substance in question rather than a generic formula across the board.

3. Labeling - the label for package marking has changed to the following with immediate effect (no grace period – packages sent out with the old label run the risk of being rejected):



This is actually simpler than the old version in that the only information that needs to be supplied is:

- * - The Class of substance – which in our case would be Class 3 for all liquids – just place a 3 in this position.
- ** - The name of the shipper or consignee **if not shown elsewhere on the package. If you are sending**

by courier the sender's name is on the courier label and so can be omitted here.

They have also added the provision whereby the label can be red **or black** on white or contrasting background. This presumably allows for photocopied versions to be used which will save on cost. These labels cost approximately \$40 for a roll of 500 (which, as far as I could tell, is the minimum order available over the web).

Packing and package testing requirements have not changed.

Publications of Interest

This section is from the Citations Sub-committee of the Conservation Committee and is chaired by Terri M. Jordan. Citations were submitted by Victoria Book (VB), Larissa Busch (LB), Diana Dicus (DD), Terri Jordan (TJ), Elizabeth Leith (EL), Barbara Moore (BM), Ann Pinzi (AP), Marcia Revelez (MR), John Simmons (JS), and Janet Waddington (JW). Contributions, suggestions, and comments may be submitted to Terri M. Jordan, Sam Noble Oklahoma Museum of Natural History, 2401 Chautauqua, Norman, OK 73072; (405) 325-3332 (voice); (405) 325-7699 (fax); tmjordan@ou.edu.

- Akram, N. 2008. Aren't birds brilliant—in Glasgow. *NatSCA News* number 15: 21-22. (JS)
— Report on a two-year long project to bring about greater public awareness of birds.
- Alberti, S.J.M.M. 2008. Constructing nature behind glass. *Museum & Society* 6(2): 73-97. (TJ)
- Alvarez, W. 2008. *T. rex and the crater of doom*. Princeton University Press. 216 pp. (LB)
- Andrew, K. 2008. Developing a collections centre in partnership with a specialist supplier. *NatSCA News* 15: 18-19. (AP, JS)
- Appelbaum, B. 2007. *Conservation treatment methodology*. Butterworth-Heinemann. 464 pp. (VB)
- Asser, E.N., B. Reissland, B.J.W. Grob and E. Goetz. 2008. Lost fingers, scurfy skin and corroding veins – conservation of anatomical papier-mâché models by Dr. Auzoux. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 285-292. (AP)
- Badman, D.A. and L. Hartman. 2008. Developing current awareness services: Virtual reading rooms and online routing. *College & Research Libraries News* 69(1): 670-672. (TJ)
- Beltran, V., J. Druzik and S. Maekawa. 2008. An extended investigation of the influence of oxygen on color fading. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 820. (AP)
- Bloomfield, T. 2008. Pupura te mahara – preserving the memory: working with Ma-ori communities on preservation projects in Aotearoa, New Zealand. *Preprints of the 15th Triennial Meeting of the*

- ICOM Committee for Conservation, New Delhi. New Delhi: Allied Publishers Pvt Ltd Vol I: 144-149. (AP)
- Caneva, G., M.P. Nugari, and O. Salvadori. 2009. *Plant biology for cultural heritage. Biodeterioration and conservation*. Getty Conservation Institute, 400 pages. (JS)
— The relationship of plant biology to biodeterioration and conservation of art, architecture, and archaeological sites (mechanisms of biodeterioration; correlation between biodeterioration and environment; and destructive organisms) and problems posed by different materials, environmental conditions, and geographic settings. Available from <http://www.getty.edu/bookstore>.
- Carey, J.L. 2008. Understanding bit depth. *Conserve O Gram* 22/1. (VB)
— This is the first “gram” in a newly created category “Creation, Care, and Storage of Digital Materials.”
- Carey, J.L. 2008. Understanding digital image formats. *Conserve O Gram* 22/2. (VB)
- Carey, J.L. 2008. Understanding PPI (Pixels Per Inch), DFI (Dots Per Inch), and digital display. *Conserve O Gram* 22/3. (VB)
- Carey, J.L. 2008. Understanding histograms for digital photography. *Conserve O Gram* 22/4. (VB)
- Carretti, E., L. Dei, R.G. Weiss, and P. Baglioni. 2008. A new class of gels for the conservation of painted surfaces. *Journal of Cultural Heritage* 9(4): 386-393. (EL)
- Cattaneo, B., D. Chelazzi, R. Giorgi, T. Serena, C. Merlo, and P. Baglioni. 2008. Physico-chemical Characterization and Conservation Issues of Photographs Dated Between 1890 and 1910. *Journal of Cultural Heritage* 9(3): 277-284. (EL)
- CCI. 2008. *Preserving Aboriginal heritage: Technical and traditional approaches. Proceedings of Symposium 2007*. Canadian Conservation Institute. 406 pp. (VB)
- Chester, S. 2008. *A wildlife guide to Chile: Continental Chile, Chilean Antarctica, Easter Island, Juan Fernández Archipelago*. Princeton University Press. 400pp. (LB)
- Cheung, A. W-F. Lai, and A. Tsang. 2008. Study of natural history specimens using X-ray fluorescence spectrometry. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 568. (AP)
- Child, R. and D. Pinniger. 2008. Using anoxia to kill insect pests: methodologies and methods. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 563-567. (AP)
- Coles, A. 2008. Renaissance for sciences in the North East? Regional hubs and the rise of the Great North Museum. *NatSCA News* 15: 12-14. (AP, JS)
- Correia, J. and F. Matero. 2008. Calcium tartrate tetrahydrate preconsolidation of salt-contaminated limestone at Mission San Jose Y San Miguel De Aguayo. *Journal of the American Institute for Conservation* 47(2): 81-95. (VB)
- Criswell, J., M. Gleeson, T. Rofkar and S. Springer. 2008. Beyond cultural sensitivity and toward cultural centeredness: insights into the preservation of Alaskan spruce root basketry. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 159-164. (AP)
- Crowley, A. and D.F. Laefer. 2008. Understanding microcrystalline waxes for the seismic protection of art objects. *Journal of the American Institute for Conservation* 47(2): 119-138. (VB, BM)
- Cuno, J. 2008. *Who Owns Antiquity? Museums and the Battle over Our Ancient Heritage*. Princeton Press. 272 pp. (EL)
- Cuno, J. (ed.). 2009. *Whose culture? The promise of museums and the debate over antiquities*. Princeton University Press, 232 pp. (MR)
- Daniel, V., E. Waterman, P. Monaghan and L. Christidis. 2008. Australian Museum-Pacific Island museums and communities: a partnership approach. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 165-170. (AP)
- Davies, C. 2008. Paradise at Kendal Museum. *NatSCA News* 15: 55-56. (AP, JS)
— Report on an exhibit of Victorian era taxidermy specimens of birds of paradise.
- Dhawan, S., N. Nigam and M.V. Nair. 2008. Preventing the deterioration by aeroflora of objects at the Lucknow State Museum. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 820. (AP)
- Doran, A. 2008. The horticultural herbarium, more than just a garden collection. *The Jepson Globe* 19(2): 1 + 6-8. (AP)
— Value of horticultural herbarium specimens; UC/JEPS horticultural holdings and their sources.
- Doyle, K. 2008. PRISM Fund supports conservation and purchase of natural history collections. *NatSCA News* 15: 42. (AP, JS)
- Ellis, R. 2008. Rethinking the value of biological specimens: laboratories, museums and the Barcoding of Life initiative. *Museum & Society* 6(2): 172-191. (TJ)
- Erkens, R.H.J. and P. Baas. 2008. Utrecht: rise and fall of a great herbarium. *Taxon* 57(3): 1024-1026. (AP)
- Ertel, D. 2008. Fundamentals of health and safety: a new approach. *AIC News* 33(5): 1, 8. (BM)
- Fernández-Jalvo, Y. and M.D. Marín Monfort. 2008. Experimental taphonomy in museums: Preparation protocols for skeletons and fossil vertebrates under the scanning electron microscopy. *Geobios*, 41: 157-181. (JW)
- Fishman-Armstrong, S.E. and D.R. Van Horn. 2008. Considerations for implementing a bar code system in a museum. *Collections* 4(4): 333-348. (AP)
- Fortey, R. 2008. *Dry Storeroom No. 1. The secret life of the Natural History Museum*. Alfred A. Knopf, New York, 335 pp. (MR, JS)
— Trilobite expert Fortey takes the reader on an amusing and provocative tour of the inner workings of The Natural History Museum, explaining in the process how science works, the relevance of systematics, the marvels of living organisms, and how very cool it is to work in a museum.
- Garfinkel, S.L. 2008. Wikipedia and the meaning of truth. *Technology Review* 111 (6): 84-86. (TJ)
- Griesser, M., E. Gregor and M. Kurzel-Runtscheiner. 2008. Development and in-depth testing of standard packing solutions for collections and museums. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 743-50. (AP)

Continued from page 19:

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- Hardy, L.M. (ed.) 2008. *Freeman and Custis Red River Expedition of 1806: Two hundred years later*. Bulletin of the Museum of Life Sciences, Louisiana State University in Shreveport, Number 14, 368 pp. (JS)
- Harmon, J. 1993. *Integrated pest management in museum, library and archival facilities*. Los Angeles: Harmon Preservation Pest Management. (DD)
— An older book. Continues to provide easily accessible practical information.
- Harter, M., R. Killius, G. Garrett and L. Baco. 2008. Utsavam – music from India at the Horniman Museum: Fieldwork and conservation. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 206. (AP)
- Hastings, R. 2008. Collaborating across time zones. *Computers In Libraries* 28 (10): 16-19. (TJ)
- Hodgkins, R., R. Garrell and D.A. Scott. 2008. Determination of acetic and formic acid concentrations in model systems and identification of efflorescence on calcareous specimens. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 885. (AP)
- Hoey, E. 2008. Taxidermy in museums...is it dead? *NatSCA News* 15: 34-35. (JS)
- IWGSC. 2008. *Scientific collections: Mission-critical infrastructure for federal science agencies*. A report of the Interagency Working Group on Scientific Collections (IWGSC). Available at http://www.ostp.gov/cs/nstc/documents_reports (31 January 2009). (TJ)
- Jiachang, C., C. Donglang, Z. Jingen, H. Xia, and C. Shenglong. 2009. Shape recovery of collapsed archaeological wood ware with active alkali-urea treatment. *Journal of Archaeological Science* 36(2): 434-440. (EL)
- Klein, D. 2008. Identifying museum insect pest damage. *Conserve O Gram* 3/11. (VB)
— Focuses on the damage caused by 10 common museum pests demonstrated by color photographs of the damage caused to objects and specimens by insect pests, rather than insect identification.
- Kotler, N.G., P. Kotler, and W.I. Kotler. 2008. *Museum marketing and strategy: designing missions, building audiences generating revenue and resources*. 2nd ed. Jossey-Bass, 544 pp. (MR)
- Kubiatowicz, R. 2008. Danger! One prick can cause death; the results of chemical testing for pharmacological activity in ethnobotanical objects. *Collections* 4(4): 281-194. (AP)
- Labi, K.A. 2008. Toward a museum culture in Ghana: Processes and challenges. *Museum Anthropology* 31 (2): 105-121. (TJ)
- Lee, A. 2008. Real world science. *NatSCA News* 15: 20-21. (JS)
- Lee, P.L.M. 2008. Using DNA to verify sex and species identity of dried bird specimens: a tool for correcting specimen records. *NatSCA News* 15: 22-23. (AP, JS)
- Lee, P.L.M. and R.P. Prys-Jones. 2008. Extracting DNA from museum bird eggs, and whole genome amplification of archive DNA. *Molecular Ecology Resources* 8: 551-560. (AP)
- Leo, A.C., L.A.C. Souza and A. de Albuquerque Araújo. 2008. Color management systems for digital optical microscopy. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 42-49. (AP)
- Leveque, M. 2009. Conference review. Climate Change and Museum Collections, IIC Conference, London, September 2008. *AIC News* 34(1): 12-13. (DD)
— International conference; resources listed on climate change and museums.
- Liner, E.A. 2008. Storage and indexing of herpetological reprints—a personal view. *Bibliotheca Herpetologica* 8(1): 6-9. (JS)
- Loughtman, L. 2008. Glasgow Botanic Gardens tour, Friday May 16th 2008. *NatSCA News* 15: 26. (JS)
- Lyons, B. 2008. Finding balance in the management of sensitive cultural heritage material in extant recorded sound collections. *Collections* 4(4): 319-332. (AP)
- MacFadyen, C. 2008. The Scottish Fossil Code. *NatSCA News* 15: 41. (AP, JS)
— Report on new legislation to protect fossils in Scotland.
- MacKay, A. 2008. A string of beads unbroken: continuity and collaboration in an exhibition of Iroquois beadwork. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 171-177. (AP)
- Mateus, O., M. Overbeeke, and F. Rita. 2008. Dinosaur frauds, hoaxes and "Frankensteins": How to distinguish fake and genuine vertebrate fossils. *Journal of Paleontological Techniques*, 2: 1-5. Available at <http://www.jpaleontologicaltechniques.org/pasta3/JPT N2/Bulletin.html> (27 Jan 2009). (JW)
- May, E., M. Jones, and J. Mitchell (eds.). 2008. *Heritage microbiology and science: microbes, monuments and maritime materials*. Royal Society of Chemistry, 383 pp. (MR)
- McSharry, C., R. Faulker, S. Rivers, M.S.P. Shaffer, and T. Whelton. 2007. The chemistry of East Asian lacquer: A review of the scientific literature. *Reviews in Conservation* 8: 29-40. (VB)
- Mertzani, M., E. Malea, N. Maniatis and G. Panagiaris. 2008. Towards a binding code of ethics for the conservation and display of human remains. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 364-369. (AP)
- Michalski, S. 2008. Social discount rate: modelling collection value to future generations, and understanding the difference between short-term and long-term preservation actions. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 751-758. (AP)
- Mishler, B.D. 2008. Herbarium funding and universities. *The Vasculum* 3(2): 8. (AP)
- Moore, S. 2008. Another update on computer printer inks and papers for internal labeling of fluid-preserved specimens. *NatSCA News* 15: 36-40. (AP, JS)
- Moriarty, K. 2006. American Chestnut: The life, death, and rebirth of a perfect tree, by Suzanne Freinkel [Book Review]. *CRM: The Journal of Cultural Resource Management* 5(2): 81-82. (JS)
- Morris, J.D. 2008. The Burgess Shale and complex life. *Acts & Facts* 37(10). Creationists interpretation of the Burgess Shale. (JS)

- Morris, J.D. 2008. New addition to our fossil family. *Acts & Facts* 37(12). (JS)
— Report in the newsletter of the Institute for Creation Research of the acquisition of a juvenile 90% complete *Edmontosaurus* skeleton with a discussion of its "creation."
- Moses, J. 2008. A Canadian Aboriginal approach to the conservation of cultural property at the Canadian Museum of Civilization. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 370-375. (AP)
- Nelson, J. 2008. On the "active" herbarium. *The Vasculum*: 3(2): 2-3. (AP)
- Newton, A. 2008. How to make a paper board crate. *Conserve O Gram* 17/5. (VB)
— Instructions for construction of a strong crate to protect objects and specimens during shipping. Materials recommended in the publication are appropriate for short-term uses such as shipping or moving, but not for long-term storage.
- Noè, L. 2008. Collections and partnerships in Birmingham. *NatSCA News* 15: 24-25. (AP, JS)
- Ogden, S. 1997. Preservation planning: Guidelines for writing a long-range plan. Washington, D.C.: American Association of Museums. Northeast Document Conservation Center. *Professional Practice Series*. (DD)
— An older book; still useful. Eleven short chapters of overall planning concepts. Seven appendixes giving how-to suggestions and providing sample worksheets. Practical.
- Parsons, M. 2008. Saving film technology in museums before it's too late. *Curator* 51(3): 233-240. (EL)
- Peck, R.M. 2008. The art of bones. *Natural History* 117(10): 24-29. (AP)
— Overview: influence of Benjamin Waterhouse Hawkins, who designed public displays, in Great Britain and US, depicting prehistoric life.
- Peralta, E. 2009. *Heritage and identity in the twenty-first century (museum meanings)*. Routledge. 208 pp. (MR)
- Perkins, S. 2008. Long live plastics: with plastics in museums decomposing, a new effort seeks to halt the demise of materials commonly thought to be unalterable. *Science News*: 174(10): 34(4). (MR)
- Peters, R. 2008. The brave new world of conservation. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 185-190. (AP)
- Pinniger, D. 2001. *Pest management in museums, archives and historic houses*. 115 pp. London: Archetype Publications Ltd. (DD)
— Good general reference.
- Pool, M. 2008. Some chemical things considered: Bisphenol A. *AIC News* 33(4): 11-15. (BM)
- Pullan, M. and A. Baldwin. 2008. The evolution of a treatment strategy for an Akali Sikh turban. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 191-197. (AP)
- Purewal, V., B. Colston and S. Röhrs. 2008. Developing a simple screening method for the identification of historic biocide residues on herbarium material in museum collections. *X-Ray Spectrom.* 37: 137-141. (AP)
— Use of hand-held UV lamp as screening method; PIXE analysis for details on mercury and arsenic contamination.
- Rader, K.A. and V.E.M. Cain. 2008. From natural history to science: display and the transformation of American museums of science and nature. *Museum & Society* 6(2): 152-171. (TJ)
- Reedy, C. 2008. *Thin-section petrography of stone and ceramic cultural materials*. Archetype. 260 pp. (VB)
- Ribbens, E. 2008. The wired herbarium. *The Vasculum* 3(2): 9. (AP)
- Robinson, J. 2008. A guide to insect collections in the British Isles. *NatSCA News* 15: 43-54. (AP, JS)
- Rotvald, G. 2008. How to create a security culture in your organization. *Information Management Journal* 42 (6): 32-38. (TJ)
- Rueda-Almonacid, J.V., J.L. Carr, R.A. Mittermeier, J.V. Rodriguez-Mahecha, R.B. Mast, R.C. Vogt, A.G.J. Rhodin, J. de la Ossa-Velásquez, J.N. Rueda, and C. Groettsch Mittermeier. 2007. *Las Tortugas y Los Cocodrilianos de los Países Andinos del Trópico*. Conservación Internacional, Bogotá, 537 pages. (JS)
— A new guidebook to turtles and crocodilians of the tropical regions of the Andean countries, with updates on taxonomy and identification necessary for cataloging into museum collections.
- Ryan, J.R. and J.F. Glarum. 2008. *Biosecurity & bioterrorism: Containing and preventing biological threats*. Butterworth-Heinemann Homeland Security Series. 326 pp. (JW)
- Ryhl-Svendsen, M., L. Grinde and L.D. Christoffersen. 2008. The microclimate inside archival boxes in rooms with fluctuating relative humidity and temperature. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 821. (AP)
- Sahar, N. and A.M. Arby. 2008. The South Nias region of Sumatra (Indonesia) after the tsunami of 2005. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 207. (AP)
- Saunders, D. 2008. A comparison of light-induced damage under common museum illuminants. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II 766-774. (AP)
- Schellman, N.C. 2007. Animal glues: A review of their key properties relevant to conservation. *Reviews in Conservation* 8: 55-66. (VB)
— Analysis of multiple types of animal glues, including distinguishing three fish glues, multiple mammal glues including bone and hide, and gelatins.
— Includes a chart that compares the primary characteristics that are important for choosing the appropriate adhesive for a particular task.
- Schlatter, N.E. 2008. *Museum careers: A practical guide for students and novices*. Left Coast Press. 184 pp. (TJ)
- Schroeder, R. 2008. e-Sciences as research technologies: Reconfiguring disciplines, globalizing knowledge. *Social Science Information* 47(2): 131-157. (TJ)
- Scott, D.A. and G. Eggert. 2007. The Vicissitudes of Vivianite as Pigment and Corrosion Product. *Reviews in Conservation* 8: 3-13. (VB)
- Shelton, S.Y. 2008. Byne's "Disease:" How to recognize, handle and store affected shells and related collections. *Conserve O Gram* 11/15. (VB)
— Also includes an explanation of the phenomenon including the chemical reaction that occurs, and tips for prevention of the efflorescence.

Continued from page 21:

.....Publications of Interest

- Smart, S. 2008. Wildlife crime unit, West Yorkshire Police. *NatSCA News* 15: 14-15. (AP, JS)
- Stevens, G. 2008. Making progress through partnership—examples of public engagement with science through creation of novel networks. *NatSCA News* 15: 15-18. (AP, JS)
- Stidham, T.A. and J. Mason. 2009. A quick method for collecting modern small-scale ichnological and sedimentological structures. *Journal of Paleontological Techniques*, 4: 1-4. Available at <http://www.jpaleontologicaltechniques.org/pasta3/JPT%20N4/Bulletin.html> (27 Jan 2009). (JW)
- Stringer, C. 2008. The museums of Glasgow. *NatSCA News* 15: 27-29. (JS)
- Sturman, C. 2008. Report on the NatSCA Conference at Glasgow—15th – 16th May 2008. *NatSCA News* 15: 30-33. (JS)
- Thickett, D., B. Stanley and K. Booth. 2008. Retrofitting old display cases. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 775-782. (AP)
- Thomas, B. 2008. Dinosaur soft tissue: biofilm or blood vessels? *Acts & Facts* 37(10). (JS)
— Creationist interpretation of the preservation of soft tissues in dinosaur fossils.
- Thomas, M.B. 2008. Featured herbarium: HAW University of Hawaii. *The Vasculum* 3(2): 4-7. (AP)
- Topping, K. 2009. Toward a National Disaster Recovery Act of 2009. *Natural Hazards Observer* XXXIII (3): 1,6-7. (DD)
— Discusses the need for the amendment of the Stafford Disaster Relief and Emergency Assistance Act of 1988.
- Townsend, J. (ed.) 2008. *Conservation Science 2007*. Archetype, 320 pp. (VB)
— A compilation of conservation science research being undertaken world-wide. Essays by multiple authors include:
— Non-invasive Technique for Disinfestations of Works of Art. Microwave Treatment of Samples.
— Exploring New Materials and Treatment Procedures for the Consolidation of Waterlogged Wood
— A Multianalytical Approach for the Identification of Amber from a Collective Burial Discovered in Roma (II century AD)
— The Sustainable Consolidation of Waterlogged Wood: new approaches of impregnation and polymerisation with a low environmental impact
— Characterization of Cultural Artefacts Using Electrochemical Techniques
— A Portable XRF-XRD Instrument for In-Situ Analysis of Cultural Heritage Objects
— The Ground Penetrating Radar: a non-destructive tool to assess conservation condition of rock art sites
- Tsang, M.-J. and M. Blyzinsky. 2008. A practical collaborative approach for long-term displays. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 791-797. (AP)
- Tse, S. and R. Waller. 2008. Developing a risk assessment model for iron gall ink on paper. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol 1: 301-309. (AP)
- Tworek-Matuszkiewicz, B. 2007. Australian aboriginal bark paintings—their history, structure and conservation. *Reviews in Conservation* 8: 15-28. (VB)
- Unger, A. and H. Tello. 2008. Handle with care: the dry cleaning and decontamination of ethnological objects with liquid carbon dioxide. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 207. (AP)
- Usai, P.C., D. Francis, A. Horwath, and M. Loebenstein (eds.). 2008. *Film curatorship: museums, curatorship, and the moving image*. Wallflower Press, 180 pp. (MR)
- Verberne-Khurshid, F., R. Boitelle, D. Ormond and R. van Gulik. 2008. Disaster is just a step away: working at being a step ahead. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 798-807. (AP)
- Vest, M., U. B. Gvad Kejser and C. Bruun. 2008. New long-term storage facilities at the Royal Library, Denmark: storage requirements for mixed collections. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 808-814. (AP)
- Vinke, S., H. Vetter, T. Vinke, and S. Vetter. 2008. *South American tortoises Chelonoidis carbonaria, C. denticulata and C. chilensis*. Edition Chimaira, Frankfurt am Main, 360 pages. (JS)
- Vodrážka, R. 2009. A new method for the extraction of macrofossils from calcareous rocks using sulphuric acid. *Palaeontology*, 52: 187-192. (JW)
- Vogt-O'Connor, D. 2008. Planning and managing a microfilming project for preservation and access. *Conserve O Gram* 19/15. (VB)
— Includes recommendations to guide and focusing the project, write a contract, assessment and stabilization of originals, and scanning and filming, material selection, quality testing, and archival storage.
- Waller, R.R. 2008. Cultural property risk assessment: matching approach with purpose. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol II: 815-819. (AP)
- White, C. and N. Odegaard. 2008. Preliminary patterns of adhesive use in prehistoric and modern repairs of southwestern pottery in the United States. *Preprints of the 15th Triennial Meeting of the ICOM Committee for Conservation, New Delhi*. New Delhi: Allied Publishers Pvt Ltd Vol I: 178-184. (AP)
- Winker, K. 2008. What I do: Notes from the frontiers of academic curating in biology. *Curator*, 51: 393-406. (JW)
- XX. 2009. *Treasures of the Natural History Museum*. The Natural History Museum. 256 pp. (MR)
- Zycherman, L. and J. Schrock (eds.) 1988. *A guide to museum pest control*. Washington, D.C.: Association of Systematics Collections. 205 pp. (DD)
— This volume continues to provide practical, useful information.

Calendar of Events

The Calendar of Events is maintained by Christine Chandler of the Documentation Committee. Application deadlines, conferences and symposia relevant to collection management, computerization and conservation of natural history collections are listed. Notices may be submitted to Christine at Putnam Museum of History and Natural Science, 1717 West 12th Street, Davenport, IA 52804; (563) 324-1054 ext. 226; chandler@putnam.org or dinoceras@juno.com.

2009

March 2009

March 2-6, 2009. **Collection Protection – Are You Prepared?**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, PO Box 3030 STN CSC, Victoria, British Columbia, V8W 3N6, Canada; Phone (250) 721-8457, Fax (250) 721-8774, crmp@uvic.ca; <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 2-27, 2009. **Fundamentals of Museum Volunteer Programs**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 2-27, 2009. **Museum Storage Facilities and Furniture**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 2-May 15, 2009. **Collections Management Policies for Museums and Related Institutions**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 9-April 17, 2009. **Disaster Plan Research and Writing**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 15, 2009. **21st Century Museum Professionals Grant deadline**. Details at <http://www.ims.gov>.

March 15, 2009. **Digging into Data Challenge: Request for Proposals, Letter of Intent deadline**. Application deadline is July 15, 2009. Details at <http://www.neh.gov/grants/grants.html>.

March 18-19, 2009. AAM Professional Development 4-Part Conference, **Straight Talk: Museums Rising to the Financial Challenge**. For more information, go to <http://www.aam-usa.org/getinvolved/learn/tipsforraisingmoney.cfm>.

March 19-22. **NSTA National Conference on Science Education Conference**, New Orleans, Louisiana, USA. Conference details at <http://www.nsta.org>.

March 22-27, 2009. **2009 Mid-Year Meeting of the Association of Zoos and Aquariums**, Oklahoma City, Oklahoma, USA. Details available at <http://www.aza.org>.

March 27-29, 2009. **The Midwest Ecology and Evolution Conference (MEEC)**, University of Nebraska-Lincoln, Lincoln, Nebraska, USA. More information is available at <http://www.midwestecec.org>.

March 30-April 24, 2009. **Collection Management Databases**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 30-May 1, 2009. **Museum Management**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 30-May 15, 2009. **Integrated Pest Management for Museums, Libraries and Archives**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

March 30-May 15, 2009. **Exhibit Fundamentals: Ideas to Installation**, an online course from the Cultural Resource Management Program,

University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

April 2009

April 1, 2009. **Native American/Native Hawaiian Museum Services Program Grant deadline**. Details at <http://www.ims.gov>.

April 1-3, 2009. **Legal Issues in Museum Administration**, Boston, Massachusetts, USA, an AAM Professional Development course. Details available at <http://www.aam-usa.org/getinvolved/learn/aliaba.cfm>.

April 9-12, 2009. **2009 Joint Scientific Meeting of the Wilson Ornithological Society and the Association of Field Ornithologists**, in Pittsburgh, Pennsylvania, USA. Details about the meeting may be found at the conference website at <http://www.wosafo2009.org/jointConf.php>.

April 13-17, 2009. **Condition Assessments**, a new online short course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

April 15, 2009. **Museums and the Web 2009: the International Conference for Culture and Heritage On-line**, Indianapolis, Indiana, USA, produced by Archives and Museum Informatics. Program information is available at <http://www.archimuse.com/mw2009>.

April 16-18, 2009. **Cooper Ornithological Society (COS 2009) Annual Meeting**, Tucson, Arizona, USA. More information is available at <http://www.birdmeetings.org/cos2009>.

April 24, 2009. **Going Green: Towards Sustainability in Conservation**, The British Museum, London, England. For further details, go to http://www.britishmuseum.org/whats_on/events_calendar/going_green.aspx.

April 28-30, 2009. **Annual Conference of the Association of Children's Museums**, Philadelphia, Pennsylvania, USA. Details at <http://www.childrensmuseums.org/index.htm>.

April 30-May 4, 2009. **103rd Annual American Association of Museums (AAM) Meeting and MuseumExpo**, Philadelphia, Pennsylvania, USA. Go to <http://www.aam-us.org> for more information.

May 2009

May 4-8, 2009. **Basic Biological Specimen Preparation and Care at the Campbell Center for Historic Preservation Studies**, 203 E. Seminary St., Mt. Carroll, Illinois, 61053, USA; Phone (815) 244-1173, Fax (815) 244-1619, <http://www.campbellcenter.org>.

May 4-29, 2009. **Materials for Storage and Display**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

May 4-29, 2009. **Fundraising for Collections Care**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

May 4-29, 2009. **Care of Archaeological Artifacts from the Field to the Lab**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

May 11-14, 2009. **Emergency Preparedness, Response, & Recovery at the Campbell Center for Historic Preservation Studies**, <http://www.campbellcenter.org>.

Continued from page 23:

.....Calendar of Events

May 11-15, 2009. **Introduction to Exhibit Design & Development** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

May 12-13, 2009. **Casting Geological Specimens**, British Geological Survey, Keyworth, Nottingham. A 2 day workshop with 1-day collections-based and the other on 'in-the-field' techniques. Contact Mike Howe, British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, NG12 5GG, UK. Tel: 0115 9363105; mhowe@bgs.ac.uk, or go to <http://www.geocurator.org/meet/meet.htm> for more information.

May 12-15, 2009. **International Society for Biological and Environmental Repositories (ISBER) 2009 Annual Meeting & Exhibits**, Portland, Oregon, USA. Details at <http://www.isber.org/mtgs/2009/index.html>.

May 14, 2009. **Preservation Assistance Grants for Smaller Institutions deadline**. Details at <http://www.neh.gov/grants/grants.html>.

May 14-16, 2009. **Museums and Faith, International Committee for Museums and Collections of Archaeology and History (ICMAH) Annual Conference**, Luxembourg, Luxembourg. Contact Marie-Paule Jungblut, Musée d'Histoire de la Ville de Luxembourg, L-2090 Luxembourg. Tel: +352 4796 4542, Fax: +352 47 17 07, m.jungblut@museehist.lu. For more information go to <http://icmah.icom.museum>.

May 18-21, 2009. **Introduction to Green Exhibit Design** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

May 19-22, 2009. **Conservation 2.0—New Directions, American Institute for Conservation (AIC) 37th Annual Meeting**, Los Angeles, California, USA. Meeting details at <http://aic.stanford.edu/meetings/index.html>.

May 20, 2009. **Save America's Treasures Grant deadline**. Details at <http://www.ims.gov>.

May 20-21, 2009. **8th Conference on Fossil Resources (CFR), Partners in Paleontology**, St. George, Utah, USA. For details, go to <http://www.8cfr.org>.

May 27-29, 2009. **Digital Directions, Fundamentals of Creating and Managing Digital Collections** (updated version of **School for Scanning**) sponsored by the Northeast Document Conservation Center (NEDCC) and the Balboa Art Conservation Center, San Diego, California, USA. More information is available on the conference website at <http://www.nedcc.org/about/news.savethedate.php>.

June 2009

June 1-3, 2009. **e-Biosphere 09: International Conference on Biodiversity Informatics**, London, England, UK. More information is available at <http://www.e-biosphere09.org>.

June 1-3, 2009. **Know the Hazards in Your Collections** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 3-6, 2009. **Permanent Storage Solutions for Complex Objects** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 5-6, 2009. **Integrated Pest Management** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 8-11, 2009. **Computer Software for Collections Management** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 11-12, 2009. **Collection Management Database Creation and Design** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 12-17, 2009. **Evolution 2009**, the annual meetings of the **Society of Systematic Biologists (SSB)**, the **American Society of Naturalists (ASN)**, and the **Society for the Study of Evolution (SSE)** will be held at the University of Idaho, Moscow, Idaho. Check out the conference website at <http://www.uiweb.uidaho.edu/evolution09/>.

June 15-18, 2009. **Design & Construction of Mounts for Exhibits** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 17-20, 2009. **33rd International Herpetological Symposium**, Monterrey, Nuevo Leon, Mexico. Details at <http://www.kingsnake.com/ihs>.

June 17-20, 2009. **Environmental Monitoring & Control** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 21-26, 2009. **9th North American Paleontological Convention (NAPC)**, Univ. of Cincinnati, Cincinnati, Ohio, USA. For convention details go to <http://www.napc2009.org>.

June 22-26, 2009. **From Mummies to Moon Rocks: Practical Solutions for Advanced Collections** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 23-25, 2009. **Storage Solutions for Small Museums** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

June 24-28, 2009. **2009 Meeting of the American Society of Mammalogists**, University of Alaska Fairbanks, Fairbanks, Alaska, USA. Details to be added and linked to <http://www.mammalsociety.org/whatsnew/meetings.html>.

July 2009

July 5-10, 2009. **ICSEB 7, The International Congress of Systematic and Evolutionary Biology**, Veracruz, Mexico. For more details, visit <http://www.botanik.univie.ac.at/ICSEB7>.

July 6-11, 2009. **Society for the Preservation of Natural History Collections Annual Meeting**, Leiden, The Netherlands. For more information, see <http://www.spnhc.org>.

July 6-31, 2009. **An Introduction to Collections Preservation**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

July 6-31, 2009. **Introduction to Museums**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

July 6-31, 2009. **Introduction to Museum Security**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

July 6-31, 2009. **Cataloging Your Collection**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

July 6-31, 2009. **Scripting the Exhibition**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

July 8-10, 2009. **Packing and Shipping Workshop** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

July 9-10, 2009. **Legal Responsibility of Caring for Collections** at the Campbell Center for Historic Preservation Studies,

<http://www.campbellcenter.org>.

July 11-16, 2009. **23rd Annual Meeting of the Society for Conservation Biology (SCB)**, Beijing, China. More details are available at <http://www.conbio.org>.

July 13-17, 2009. **Keeping Small Animals on Exhibit (Care and Feeding of Small Animal Exhibits)**, a new online short course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

July 17-18, 2009. **Grant Writing for Collections Care: Federal Grants** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

July 20-21, 2009. **Grant Writing for Collections Care: Private Foundation Grants** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

July 22-24, 2009. **Collection Policies for Small Museums** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

July 22-27, 2009. **Joint Annual Meeting of the American Society of Ichthyologists & Herpetologists, the Herpetologists League, the Society for the Study of Amphibians and Reptiles, and the American Elasmobranch Society**, Portland, Oregon, USA. Other participating organizations: **Early Life Section (ELS), Herpetological Conservation and Biology (HCB) and the Society for NW Vertebrate Biologists (SNVB)**. Contact Heide Burke, Program Coordinator, (785) 532-2549, hburke@k-state.edu. See <http://www.dce.k-state.edu/conf/jointmeeting> for more information.

July 27-August 1, 2009. **Introduction to Organic and Inorganic Materials** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

July 28-August 2, 2009. **2009 Invertebrates in Education and Conservation Conference (2009 IECC)**, Rio Rico, Arizona, USA. Conference information is available at <http://sasionline.org/conferenceinfo.htm>.

July 30-August 1, 2009. **Digitizing Museum Collections I: Working with Cameras and Scanners** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

August 2009

August 2-7, 2009. **94th Annual Meeting of the Ecological Society of America**, Albuquerque, New Mexico, USA. Go to <http://www.esa.org> for more information.

August 3, 2009. **Museum Security** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

August 3-5, 2009. **Digitizing Museum Collections II: Basic Photoshop & DAM Software** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

August 3-28, 2009. **Applying Numbers to Collection Objects: Materials and Methods of Object Numbering**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

August 3-September 11, 2009. **Found in the Collection: Orphans, Old Loans and Abandoned Property**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

August 4-8, 2009. **Collection Management in Storage** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

August 10-12, 2009. **Collection Storage Planning and Design** at the

Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

August 10-14, 2009. First meeting of **BioSyst EU**, Leiden, The Netherlands. Participating societies include: **GfBS - Gesellschaft für Biologische Systematik (Germany)**, **NOBIS - Network of Biological Systematics Austria (Austria)**, **SFS - Société Française de Systématique (France)**, **Swiss Systematics Society (Switzerland)** and **The Systematics Association (UK)**. For more information go to <http://www.biosyst.eu>.

August 12-14, 2009. **17th International Conference on Geoinformatics**, Fairfax, Virginia, USA. Questions, inquiries and comments can be sent to info@geoinformatics2009.org. Details at <http://www.geoinformatics2009.org>.

August 12-15, 2009. **127th Stated Meeting of the American Ornithologists' Union**, University of Pennsylvania, Philadelphia, Pennsylvania, USA. Go to <http://www.birdmeetings.org/aou2009> for more information.

August 17-21, 2009. **Replication Workshop: Molding, Casting & Sculpting in Museum Exhibits** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

August 20-23, 2009. **Annual Meeting of the Society of Canadian Ornithologists - Société des Ornithologistes du Canada**, Edmonton, Alberta, Canada. For more information go to <http://www.sco-soc.ca/meetings.html>.

August 26, 2009. **America's Historical and Cultural Organizations: Implementation Grants deadline**. Details at <http://www.neh.gov/grants/grants.html>.

August 26, 2009. **America's Historical and Cultural Organizations: Planning Grants deadline**. Details at <http://www.neh.gov/grants/grants.html>.

August 31-October 2, 2009. **Museum Management**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

August 31-October 9, 2009. **Disaster Plan Research and Writing**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

August 31-October 9, 2009. **Museum Cleaning Basics**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

August 31-October 9, 2009. **Storage for Infinity: An Overview of Museum Storage Principles**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

September 2009

September 10-13, 2009. **Putting University Collections to Work in Teaching and Research, International Committee for University Museums and Collections (UMAC)**, Berkeley, California, USA. Contact March Meadow, Univ. of California, Santa Barbara, meadow@arthistory.ucsb.edu or go to <http://umac.icom.museum> for more information.

September 12-17, 2009. **2009 Meeting of the Association of Zoos and Aquariums**, Oregon, USA. Details available at <http://www.aza.org>.

*Continued from page 25:
.....Calendar of Events*

September 13-18, 2009. **International Committee for Museum Security (ICMS) Meeting**, Quebec, Canada. Contact Hans-Juergen Harras, Staatliche Museen Berlin, Referat Sicherheit, Stauffenbergstrasse 41 D-10785 Berlin, Germany. Tel: +49 30 266 2900, Fax: +49 30 266 2969; h.j.harras@smb.spk-berlin.de, or go to <http://icms.icom.museum>.

September 14-18, 2009. **Collection Protection – Are You Prepared?**, an online short course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

September 14-November 27, 2009. **Collection Management Policies for Museums and Related Institutions**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

September 22, 2009. **Geological Curators' Group (GCG) Seminar** in conjunction with the Society for Vertebrate Palaeontology (SVP), Bristol University, Queen's Road, Bristol. Contact Leslie Noè, Curator of Natural Science, Thinktank, Birmingham Science Museum, Millennium Point, Curzon Street, Birmingham, B4 7XG, UK. Tel: 0121 202 2327; Leslie.Noè@thinktank.ac or go to <http://www.geocurator.org/meet/meet.htm> for more information.

September 23-26, 2009. **Society for Vertebrate Paleontology (SVP) 69th Annual Meeting and the 57th Symposium of Vertebrate Paleontology and Comparative Anatomy (SVP/CA)**, Bristol, England, UK. Meeting details are available at <http://www.vertpaleo.org/meetings/index.cfm>.

September 23-26, 2009. **Developing and Fabricating Education Interactives** at the Campbell Center for Historic Preservation Studies, <http://www.campbellcenter.org>.

September 27-30. **Inspiration and Innovation, Joint Conference of the Association of Midwest Museums (AMM) and the Minnesota Association of Museums**, St. Paul, Minnesota, USA. Details at <http://www.midwestmuseums.org>.

September 28-30, 2009. **Documentation in the XXI Century: Connecting Cultural Heritage Information, International Committee for Documentation (CIDOC) meeting**, Santiago, Chile. Contact Christian Emile Ore at c.e.s.ore@muspro.uio.no or go to <http://cidoc.icom.museum> for more information.

October 2009

October 1, 2009. **Conservation Project Support Grant deadline**. Details at <http://www.ims.gov>.

October 5-9, 2009. **The Mountain-Plains Museums Association (MPMA) 2009 Annual Conference**, Cheyenne, Wyoming, USA. Details available at <http://www.magma.net/2009ac.htm>.

October 12-16, 2009. **18th Biennial Conference on the Biology of Marine Mammals**, Quebec City, Quebec, Canada. Conference details at <http://www.marinemammalogy.org>.

October 13-16, 2009. **2009 Annual Meeting of the Southeastern Museum Conference (SEMC)**, Charleston, West Virginia, USA. Details at http://www.semcdirect.net/education_and_programs/2009_annual_meeting/index.html.

October 15, 2009. **Connecting to Collections: Statewide Planning Grants deadline**. Details at <http://www.ims.gov>.

October 16-21, 2009. **From Volcanoes to Vineyards: Living with Dynamic Landscapes, 2009 Geological Society of America (GSA) Annual Meeting**, Portland, Oregon, USA. Meeting details at <http://www.geosociety.org/meetings/2009>. Section meetings occur throughout the year. Check the GSA website for details.

October 18-21, 2009. **Mid-Atlantic Association of Museums (MAAM) Annual Conference**, Washington, DC, USA. Conference information is available at <http://www.midatlanticmuseums.org/annualmeeting.html>.

October, 19-24, 2009. **Museums for Reconciliation and Peace: Roles of Ethnographic museums in the world, International Committee for Museums and Collections of Ethnography (ICME) Annual Conference**, Seoul, Republic of Korea. Contact Victoria Phiri at secretary@icme.icom.museum or go to <http://icme.icom.museum> for more information.

October 25-29, 2009. **A Rising Tide: Sustainable Practices, Green & Beyond, the Western Museums Association Conference (WMA) 2009 Annual Meeting**, San Diego, California, USA. More information at <http://www.westmuse.org/san%20diego%20rfp.html>.

October 31-November 3, 2009. **Association of Science-Technology Centers (ASTC) 2009 Annual Conference**, Fort Worth, Texas, USA. Conference information at <http://www.astc.org/conference/future.htm>.

November 2009

November 1, 2009. **Museums for America Grant deadline**. Details at <http://www.ims.gov>.

November 2-27, 2009. **Collection Inventories**, an online course from the Cultural Resource Management Program, University of Victoria, Division of Continuing Studies, <http://www.uvcs.uvic.ca/crmp/contact.aspx>.

November 6-8, 2009. **International Registrars Symposium (IRS3)**, Chicago, Illinois, USA. Details at <http://www.rcaam.org/irs3.htm>.

December 2009

December 1, 2009. **Conservation Assessment Program Grant deadline**. Details at <http://www.ims.gov>.

December 2009. **GCG AGM and Seminar: Storage, Sorting and Documentation - good practice and practical solutions**, Leeds City Museum and Art Gallery. More details to follow. Contact Will Watts, Scarborough Museums & Gallery, Town Hall, Scarborough, YO11 2HG, UK. Tel: 01723 232572; Will.watts@scarborough.gov.uk or go to <http://www.geocurator.org/meet/meet.htm> for more information.

2010

February 7-10, 2010. **128th Stated Meeting of the American Ornithologists' Union**, a joint meeting with the Cooper Ornithological Society, and the Society of Canadian Ornithologists - Société des Ornithologistes du Canada, San Diego, California, USA. For more information, go to <http://www.aou.org/meetings/index.php3>.

June 25-29, 2010. **Evolution 2010**, the annual meetings of the Society of Systematic Biologists (SSB), the American Society of Naturalists (ASN), and the Society for the Study of Evolution (SSE) will be held in Portland, Oregon, USA.

July 3-7, 2010. **24th Annual Meeting of the Society for Conservation Biology (SCB)** will be held at the University of Alberta, Edmonton, Alberta, Canada. More details are available at <http://www.conbio.org>.

August 1-6. **95th Annual Meeting of the Ecological Society of America**, Pittsburgh, Pennsylvania, USA. Go to <http://www.esa.org> for more information.

August 22-28, 2010. **25th International Ornithological Congress**, Campos do Jordão, Brazil. Go to www.ib.usp.br/25ioc for more details.

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