

SPNHC NEWSLETTER

Society for the Preservation
of Natural History Collections

August 1991
Volume 5, Number 2

LETTER FROM THE PRESIDENT

Dear Members,

It has been a pleasure witnessing the growth and development of SPNHC during the past year. The efforts of the SPNHC Council, Standing and Sessional Committees, and membership resulted in several significant accomplishments which speak favorably for the Society and its goals.

The membership is growing at a steady rate and now exceeds 600 members. The Society is financially sound and is operating in the "black." With the resourcefulness of the SPNHC Committees and institutional support, I anticipate that the Society will be able to serve its membership and the museum community as a whole with a variety of new activities scheduled for the coming year.

In May, the Canadian Museum of Nature hosted the Sixth Annual Meeting of SPNHC. The presentations, workshops, social events, facilities, and services were excellent. The preventive conservation workshop conducted by the Canadian Conservation Institute was particularly appreciated by the registrants who had never received such training.

It is easy take the SPNHC publications for granted. Few individuals are fully aware of the amount of work involved in producing each issue of *Collection Forum* and the *SPNHC Newsletter*. The Publications Committee is continually pressured to provide this basic service to the membership. During the past year the Committee not only maintained the quality of material for these publications, but they also managed to get the publications back on schedule.

Other important and exciting activities include publications being coordinated through the Conservation Committee, special services provided by the Resources Committee, and the development of an Awards System for the Society. Each of these projects is special in its own way, and the collective impact clearly demonstrates the vitality and value of the Society.

SPNHC is increasingly involved with outside activities that serve the interests of its membership. SPNHC continues to send representatives to the annual meetings of AIC and NIC. The Publicity and Liaison Committee has publicized SPNHC at annual meetings of other organizations. During the next year, SPNHC will continue to play a very active role in the International Symposium and World Congress for the Preservation and Conservation of Natural History Collections to be held in Madrid.

The past year has been very productive and I am confident that the coming year will be equally successful.

Credit for this success is due to the dedication and hard work of the SPNHC membership. The SPNHC Council and Committees plan to continue serving the membership in the best way our resources will allow. While we have developed strategies that fulfill this objective, we are receptive to new ideas and the needs of the membership. Please feel free to express your thoughts to me or any of the Council Members or Committee Chairs. Input from the membership is necessary to direct the future of SPNHC.

... Stephen Williams, SPNHC President (#1)

SEVENTH ANNUAL MEETING LINCOLN, 2-6 JUNE 1992

The University of Nebraska State Museum will host the 7th Annual Meeting. Technical sessions, field trips and special social events are in the planning stages. Accommodations will be in the University dormitories and a near-by hotel. To assist in planning or for additional information, contact Charlie Messenger. (#2)

GETTING THE BUGS OUT OF THE SYSTEM LINCOLN, 5-6 JUNE 1992

The Education and Training Committee is extremely grateful to the anonymous donor who gave \$428.00 for the upcoming 1992 workshop *Getting the Bugs out of the System: museum pests from bacteria to beetles*. As with the 1990 symposium, it will be offered towards the end of the 1992 SPNHC Annual Meeting in Lincoln, Nebraska. The workshop will begin Friday and continue through Saturday afternoon. We anticipate the participation of at least eight instructors covering such diverse topics as integrated pest management computer programs, pest control through temperature regimes, safety and legal issues, identification lab and review of available literature. Registration for the workshop will be in addition to that of the Annual Meeting. For additional information, contact Lynn Barkley. (#3)

NEWS !

STORAGE BOOK FUNDED BY IMS

SPNHC was just notified by the Institute for Museum Services that the SPNHC special publication *Workbook on the Storage of Natural History Collections* will receive full support. The amount of the award is \$25,200. The proposal was prepared and submitted by the Conservation Committee.

**SPNHC MEMBERS MAY PARTICIPATE
IN THE MADRID SYMPOSIUM -
IN SPAIN OR AT HOME**

SPNHC has been actively involved with the planning of the International Symposium for the Preservation and Conservation of Natural History Collections for over three years. It will be an opportunity for individuals to be a part of a massive effort to express to the world the critical issues facing the preservation of natural history materials. For this reason, it is important that SPNHC be well-represented at the Symposium. However, it is equally important that SPNHC members use this unique opportunity to benefit from the information that will be presented and shared through this event.

The Local Committee is going to great efforts to involve as many individuals in the Symposium as possible even though the facilities will accommodate only 450 participants. It is anticipated that this limit plus economic conditions will prevent many individuals from attending the Symposium. To alleviate this problem the Local Committee will provide a variety of benefits for individuals who wish to be registered *in absentia*. At a cost of only 5,000 Pesetas (approximately \$50 US), an individual may register and receive a copy of the abstracts, be included on the list of participants, and take advantage of special benefits such as receiving Symposium publication discounts and having the Local Committee arrange for the display of a submitted poster presentation. Due to the institutional and governmental support for the Symposium, it is expected that these benefits and others will surpass the actual costs of registering *in absentia*.

It is hoped that the SPNHC membership will participate in the Symposium in whatever capacity is possible. The Second Circular, describing registration options and benefits, should be received by October 1. If you do not receive one and wish to, contact the Symposium '92 Local Organizing Committee. (#4)

**SCHEDULE FOR COMMITTEE MEETINGS
PROVES EFFICIENT AND EFFECTIVE**

During the past few years there has been a concerted effort to involve more individuals, specifically Committee Chairs, in the SPNHC Council meetings. Their presence enables Council to coordinate activities and to have accurate information for decision-making. It is equally important that the Committee Chairs interact with each other and become aware of current SPNHC operations.

In previous years, Council has conducted its first annual business meeting on the first day of registration. It has always been difficult to schedule Committee meetings on top of a full-day session for Council. This difficulty was compounded by the fact that the Committee Chairs were less prepared to discuss issues if they did not have sufficient time to meet with their committees. To correct

this problem, a new strategy was tested at the 1991 Annual Meeting. During the first day of registration, the Committee Chairs had all morning to meet with their committee members. After lunch, the Council conducted its annual meeting with the Committee Chairs present. Because this procedure was effective and efficient, it will be repeated next year. This new schedule means that many committee members must arrive a day early to the Meeting. This extra effort and, in some cases, expense, is greatly appreciated by Council, the Committee Chairs and the membership.

AWARDS AND RECOGNITION SYSTEM

SPNHC Council heard recommendations for recognition of individuals who excel in promoting the goals of the Society. These recommendations are the work of the Sessional Committee for Awards and Recognition by SPNHC. Council approved the concepts proposed by the Committee, comprised of Carol Bossert (Chair), John Simmons, and Susan Woodward, and requested that the Committee continue working on the mechanisms for implementing the award system.

Although the details of the Awards System will not be available until 1992, the basic ideas proposed by the Committee included the formation of an appropriate standing committee and three types of recognition to be awarded by SPNHC. The nature and purpose of the awards are:

1) Recognition of an individual for significant contribution to the profession of collection preservation -- This award provides a mechanism for SPNHC to recognize members or non-members for significant contributions (direct or indirect) to the preservation of natural history collections. Normally this would involve life-time achievements, but it is possible that other special circumstances would warrant SPNHC recognition.

2) Recognition of a SPNHC member for significant service to the Society -- This award provides a mechanism for SPNHC to recognize members for significant service (outside of Presidential positions) to the Society. Normally this would involve exceptional service to appointed offices, committees, and/or ongoing activities of SPNHC.

3) Faber Award -- This award provides a mechanism for SPNHC to encourage and award initiatives of its members to conduct innovative projects that promote the objectives of the Society. This award also serves the collection management and/or care research needs of natural history collections. This will be a competitive cash award derived from the interest received from the SPNHC Awards Fund.

Council recognizes that the Society's Awards System requires special planning and resources if it is to attain the significance that is intended. For this reason the Sessional

Committee will continue its work. Efforts will be made to build the SPNHC Awards Fund so that at least one Faber Award can be granted annually. Although the SPNHC Awards Fund has already received significant contributions, an additional \$7,500 US is needed to initiate the Awards System.

ELECTIONS COMMITTEE CALL FOR NOMINATIONS

Nominations for President-Elect, Secretary, and two Members-at-Large are being solicited by the Elections Committee for the 1992 slate of officers. These are the only positions being filled. Members are encouraged to send the names and addresses of possible nominees to the nominations subcommittee by 30 September 1991:

Carol Bossert
The Newark Museum
49 Washington Street
Newark, New Jersey 07101 USA

Sheila C. Byers
Royal Ontario Museum
100 Queen's Park
Toronto, Ontario, Canada M5S 2C6

SPNHC TO BE IN VICTORIA JUNE 1993

Plans for hosting the Society for the 1993 annual meeting are underway in Victoria, British Columbia. The Royal British Columbia Museum has consulted with many societies including the American Institute of Conservation, American Association of Museums, Association of Systematic Collections, American Society of Mammalogists, and the American Society of Ichthyologists and Herpetologists to ensure that the dates we pick are not in conflict with these societies.

Find a 1993 calendar and mark the dates now. The Eighth Annual Meeting is set for the week of June 6-12, 1993.

The Local Committee chairperson is Grant Hughes who is supported by staff at the Royal B.C. Museum and the University of Victoria. He will be looking to SPNHC members for guidance in planning the Program and in setting up the Workshop activities. More on this later. Thanks to all of you for selecting Victoria for 1993. (#5)

PUBLICATIONS COMMITTEE

Collection Forum is now abstracted in two museological indexes: 1) *Art and Archaeology Technical Abstracts*, published semi-annually by The Getty Conservation Institute in association with the International Institute for Conservation of Historic and Artistic Works; and 2) *Museum Abstracts International*, published by the Scottish Museums Council and Routledge Inc.

John Simmons is co-editor for a new column on collection management in the Association of Systematic Collections Newsletter. Suggestions for topics and offers of assistance should be sent to John. (#6)

SPNHC Council approved the submission of an IMS grant to support the production of a special publication entitled, *Workbook on the Storage of Natural History Collections*. Designed as a compilation of practical solutions to storage problems using materials and techniques that follow sound conservation practices, this publication will be edited by Carolyn Rose with assistance from the Publications Committee.

CHANGE OF ADDRESS

Please, notify the Treasurer of an address change at your earliest convenience. Every returned issue amounts to a three-fold charge for postage - the initial mailing; the return to the Treasurer with an undeliverable tag; and the subsequent re-mailing when we track you down. Help us keep these extra charges to a minimum. (#7)

MEMBERS' DIRECTORY

A members' directory will be produced and mailed with the 1992 dues notices. Please check your address label for errors. The post office has reviewed our mailing list for zip +4 and added several other changes. If you don't like what they have done, let me know. Have you recently changed your telephone number or added a FAX number? Please forward additions and corrections to the Treasurer before 30 September 1991 to ensure inclusion in the Directory. (#7)

GIFT MEMBERSHIPS

Members, do you have an international colleague who would enjoy receiving our publications but cannot obtain hard currency? Several of our members have made gifts to friends who might not otherwise be able to arrange for membership. In each current case, the new member is the only representative for an entire country. Our Membership Committee will write a welcoming letter, just as they do for all new individual memberships, and your colleague will be informed of your gift arrangement. Contact the Treasurer for more information. (#7)

BACK ISSUES

SPNHC Council has voted to make some of the early issues of *Collection Forum* available for half price. Although we have a substantial number of copies of some issues, there are only 10 copies of CF 2(1) left. Act now and get one of the few remaining copies. You can get a \$40.00 set of available issues for \$20.00!

CF 2(1)\$ 5.00
CF 2(2) 5.00
CF 3(1&2) 5.00
CF 4(2) 5.00

CF 1 and 4(1) are out of print.
CF volumes 5, 6, and 7 are \$10 per issue.

Send your check to the Treasurer. (#7)

FEATHER DUSTER™

An aerosol product for cleaning stuffed, mounted trophies was brought to the conservation laboratory by the museum taxidermist, Kevin Hockley, who wanted advice on whether it was likely to damage to fur and feathers.

The product claims that it "dissolves dust on contact", (but surprisingly not grease or cobwebs), and that there will be "absolutely no build-up even if used often". However, samples sprayed on glass plates revealed the presence of a water-white, thermoplastic polymer which undoubtedly does form a deposit on any sprayed surfaces. The carrier was extremely volatile and heavily perfumed with an ethereal odour detectable behind the perfume. When shaken up with an equal volume of distilled water the cleaner settled out as three discrete layers with the polymer visible as a finely divided white material in the bottom layer of solvent. The pH of the distilled water was lowered slightly, from pH6 to pH5.5.

The product was sprayed on pieces cut from de-accessioned taxidermy specimens and feathers in varying states of well-being, which were split in half to provide control samples. In most cases the effects of one light spraying were virtually invisible but there was noticeable stiffening of all samples after drying. There was a very slight change in gloss and sheen on very dark feathers and some iridescent green feathers. Light coloured fur and feathers in good condition did appear cleaner after spraying, which could be an optical effect because in thin layers the polymer has a matte, hazy appearance. With heavier spraying it forms translucent, glossy rings on smooth surfaces such as glass or horn, and causes clumping of absorbent fur and feathers, especially down feathers. Degraded samples of caribou hair and white feathers appeared noticeably dirtier when compared with the controls, partly because they became patchily translucent from differential absorption of the resin and partly from the increased colour saturation of the dirt trapped in the degraded areas. Upon examination under the microscope it appeared that, far from dissolving dust, any dirt not blown off seemed to be glued onto the specimen; this became increasingly obvious with later applications.

Another possible problem was the wide spread of the mist when used from a distance of 12 inches as directed. It is very difficult to prevent contact with surrounding areas, (walls, lungs, vitrines etc.), unless each specimen is treated in a spray booth. Since the solvent attacks certain plastics, paints and varnishes, there is also the danger of damaging mounts, labels and plastic eyes on the specimens themselves.

Once the specimen is coated with the polymer it is very difficult to remove. It seems to adhere well to the fibres and its not easily brushed out. Solvent cleaning is laborious and not very satisfactory, especially on brittle,

degraded specimens or on down feathers. Fortunately the polymer appears to have a high glass transition temperature so it does not absorb dust once the solvent has completely evaporated. Some test samples and their controls were left suspended in the exit vent of an air extraction unit for 6 months to collect dust. The sprayed samples did not pick up more dust than the controls and the dust on the treated glass plate was as easily vacuum cleaned as the dust on the plain glass. Unfortunately the polymer coating did not appear to provide any protective effect either because the coated fur and feather samples were no easier to clean than the controls. Whether the polymer coating will yellow or otherwise degrade with age is not yet known.

Since the product cannot be recommended for museum material, it was not sent off for further information about the identity or possible health hazards of the solvents. However, Helen Coxon did carry out some simple spot tests on the polymer. The Beilstein, diphenylamine and anthrone tests gave negative results indicating that it was not a chlorinated polymer or a cellulosic. The four-reagent test for acetates proved positive and this together with its other properties, (solvency, specific gravity etc.), suggests that it is probably polyvinyl acetate.

... Julia Fenn, Conservation Section,
Royal Ontario Museum

CAUTION: Contents under pressure. DO NOT puncture or incinerate. Store at room temperature. DO NOT spray near open flame.

WARNING: Use only as directed. Intentional misuse by deliberate, reckless or negligent persons can be extremely dangerous. Keep out of the reach of children.

NET WEIGHT
1.3 FLUID OZ.

DESIGNED TO CLEAN BIRD MOUNTS, FISH MOUNTS,
and GAME HEADS.

SPRAY IT ON/LEAVE IT ON

FEATHER DUSTER

TROPHY MOUNT CLEANER

DISSOLVES DUST ON CONTACT



ABSOLUTELY NO BUILD-UP EVEN IF USED OFTEN DRIES IN SECONDS

DIRECTIONS: Spray in well-ventilated area only. Remove mounts from wall. Turn nozzle towards object. From a distance of 12", spray slowly over desired area. Do not wipe. Use once monthly to keep mounts clean. FEATHER DUSTER will not dissolve grease or cobwebs. If mount is excessively dirty, please wipe mount with damp cloth, wait 30 minutes or until dry, then apply FEATHER DUSTER. Use once monthly to keep mounts clean.

FEATHER DUSTER, INC.
P.O. BOX 1601
BIG BEAR LAKE
CA 92315

NON-FLAMMABLE NO FLUOROCARBONS

WHITE GLUE, HOW HAZARDOUS IS IT?

In November 1990, Conros Corporation, maker of Ross-Conros Adhesives, sent notification to Boards of Education in all fifty states recommending against the use of their own PVA (polyvinyl acetate/ polyvinyl alcohol) white glues. Conros had reason to believe that a contaminant present in all PVA glues might be a carcinogen. They recommended as alternatives their non-PVA glues.

The problem. PVA glues are made 1) by reacting a catalyst and a monomer called vinyl acetate to form a sticky polyvinyl acetate plastic or 2) by reacting vinyl acetate with a chemical which converts (alcoholizes) it to polyvinyl alcohol plastic. The plastics are then emulsified with water to make the common white glues. Unfortunately, some of the toxic vinyl acetate monomer remains in the emulsions.

Vinyl acetate is a clear, colorless liquid with a sweet fruity smell. It has a Threshold Limit Value of only 10 parts per million because it is known to be a strong respiratory irritant. Other than its acute respiratory effects, little is known about its long-term effects on people. Long-term animal studies, however, indicate that it causes tumors in the nose and lungs. A 1989 study, sponsored by the Society of Plastics Industry (SPI), also found nasal cancer in three rats exposed to high levels of vinyl acetate. On the basis of this study, the SPI filed a significant risk notice with the Environmental Protection Agency (EPA). In December, 1990, the EPA sent letters to Ross and other manufacturers of PVAs citing the SPI study and requesting data on the amounts of vinyl acetate monomer in their products. The EPA letter also encouraged manufacturers to reduce the monomer to the lowest level possible in their products. This action precipitated Ross' decision to reduce children's exposure to zero by withdrawing their product from the school market.

PVA certified non-toxic. The Ross product and several other PVA glues have been certified non-toxic by the Arts and Crafts Materials Institute (ACMI). Different brands of PVA glue contain varying amounts of vinyl acetate. Ross claims their "Kid's Glue" and their "School Glue" contained 0.021 and 0.02% respectively. ACMI's toxicologist, Woodhall Stopford, says that even 0.6% vinyl acetate would still allow a product to qualify for the non-toxic AP seal.

ACMI guidelines require extrapolation from existing data to provide a risk of cancer lower than one in 1.4×10^7 in a life-time of exposure - an extremely small risk. On February 15, ACMI released a statement which reaffirmed their original determination that the white glues do not present a chronic health hazard. They also said that the SPI study was flawed because the vinyl acetate used was contaminated with acetaldehyde, a known nasal carcinogen.

Acetaldehyde. Acetaldehyde, whose toxicity is similar to that of formaldehyde, is known to cause nasal cancer in animals. The contamination of PVA with acetaldehyde is not unexpected, since vinyl acetate reacts with water (hydrolysis) to form acetaldehyde and acetic acid (vinegar). In fact, one DuPont-sponsored basic research program which is expected to be completed this year includes an investigation of vinyl acetate hydrolysis to acetaldehyde in rodent and human nasal tissue - which may be the mechanism by which vinyl acetate causes cancer.

Even more relevant to users of PVA glues is the likelihood that hydrolysis of residual vinyl acetate monomer is ongoing in the glue itself since it is in a water emulsion. Perhaps this also explains the slight vinegar odor of some white glues.

ACTS PVA policy. Although there are unanswered questions about the carcinogenicity of vinyl acetate and the acetaldehyde content of the PVA glues, the risk from PVA glues is probably small. It is ACTS's policy, however, to avoid exposing children to suspect carcinogens whenever possible. ACTS suggests that teachers use up current supplies and purchase vinyl acetate free substitutes such as Ross Purple Glue Stick, Ross Kidstik, and Ross-Conros Mr. Natural School Glue. ACTS Facts will continue to monitor and report on PVA research.

.... Monona Rossol, ACTS
Editor's note: This excerpt from ACTS FACTS 5(3):1-2 deals mainly with the health-related problems of PVA white glue. The acetic acid formed by PVA glues may cause damage to natural history specimens and their accompanying labels.

SARAN, WHAT IS IT?

During the workshop on Preventive Conservation hosted by the Canadian Conservation Institute, mention was made, by Jean Tetreault, of "Saran", a stable sheeting material that was deemed safe to use. There was some confusion amongst delegates as to exactly what this mystery material was and where to obtain it. I was asked to find out. In a telephone conversation, Jean revealed that "Saran" is in fact that household favourite, the microwave safe grade of "Saran-wrap", a PVDC with low levels of plasticisers. It is not as flexible as other types of clingfilm. This low level of plasticiser and the PVDC rather than PVC composition is what makes it safe for museum use. It may be purchased at your local supermarket.

.... Kate Andrew, Canadian Museum of Nature

10 - 15 MAY 1992

MADRID INTERNATIONAL SYMPOSIUM

IN PROGRESS. . . .

AASP Holotype Collection. At its April board meeting, the American Association of Stratigraphic Palynologists voted to select The Carnegie Museum of Natural History in Pittsburgh, Pennsylvania as the site for the AASP Holotype Collection. All descriptions of new taxa published after January 1, 1990, must include the name of the herbarium or museum where the specimens are housed. For the records at The Carnegie, the following information needs to be presented with the slides: 1) description of preparation techniques, 2) description of mounting media and methods used to seal the cover slip, 3) information regarding the type locality and a small hand sample, if possible, and 4) a copy of the original publication containing the description of the new taxon. For special mounts such as glycerin or SEM stubs, contact Dr. Mary Dawson (412) 622-3246 for special instructions. All slides and material should be addressed to Dr. Mary Dawson, The Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213 USA.

. . . . from AASP Newsletter, April 1991,
article by Judith Lentin, Calgary

The Anthropology Conservation Laboratory at the National Museum of Natural History, Smithsonian Institution, submitted for pesticide testing a sample of the water from the water trap preceding the filter on a Rainbow vacuum cleaner after vacuuming five ethnographic objects with early collection dates. High concentrations of arsenic and mercury were detected, requiring that the water be considered hazardous waste in its disposal (an expensive option). Conservators in the Anthropology Conservation Laboratory were advised not to dispose of vacuum trap water waste via sink drains. This suggests that vacuum cleaners with water traps should not be used when vacuum cleaning items which may be contaminated with arsenic or mercury.

An alternative is to use a dry, Nilfisk vacuum cleaner with a HEPA filter to eliminate all particulate dust to a particle size of 0.3 microns. Air monitoring at the Nilfisk exhaust filters did not detect mercury vapor being emitted during object cleaning. After cleaning objects of known arsenic or mercury contamination, the vacuum bag's contents will be considered hazardous waste. Disposal of solid vacuum cleaner waste will be less frequent than that from a water trap, thus greatly minimizing disposal costs. Local or state environmental regulatory authorities should be consulted for pertinent laws and to obtain a list of licensed hazardous waste disposal firms. Safe handling and disposal practices for pesticide contaminated materials used in cleaning will be further investigated.

. . . . from AIC Newsletter, March 1991, article
by Lisa Goldberg, Move Conservator, NMNH

Editor's note: See Health and Safety Notes pg. 7.

Federal Archeology Report. This quarterly newsletter is produced by the Archeological Assistance Division (AAD), National Park Service. To request copies, contact AAD, National Park Service, P.O.Box 37127, Washington, D.C. 20013-7127, tel: (202) 343-4101. The following items are excerpted from the March 1991 issue:

■ In December 1990, A Proposed Act respecting the protection of the archaeological heritage of Canada was introduced in the House of Commons. This legislation will be designed to 1) define lands to which it will apply and define archaeological resources; 2) establish procedures for treatment of burial and grave goods, a permit system for archaeological activities, and a registry of archaeological sites; and 3) give power to make regulations as well as establish administration and enforcement procedures.

■ To provide greater access to members of the archaeological and historic preservation community, the Archeological Assistance Division is planning to beta test on-line access to NADB, about 100,000 records, from June 1 to September 30, 1991. During that time plans will be developed for long-term maintenance of the system. Contact: Veletta Canouts, NADB Coordinator, AAD.

■ President Bush signed into law the Native American Grave Protection and Repatriation Act of 1990 (P.L. 101-601), on November 6, 1990. This statute has wide ranging implications for the archaeological programs and collections of Federal agencies as well as for archaeological collections held by museums that receive Federal funding. For background information, copies of the reports may be obtained from Congress (House of Representatives Report 101-877 from House Document Room, H-226 Capitol, Washington, D.C. 20515, tel: (202) 225-3456; Senate Report 101-473 from Senate Document Room, SH-B 04, Washington, D.C. 20510, tel: (202) 224-7860). For information on the statute or to comment on the law, contact Francis P. McManamon, Chief, AAD.

■ The West Virginia legislature passed a Grave Protection Bill that provides penalties for anyone who desecrates, loots, or vandalizes prehistoric or historic archaeological sites and also extends protection to marked and unmarked cemeteries. The law restricts the sale of grave goods and artifacts and provides for confiscation of artifacts obtained unlawfully and the tools, equipment and vehicles used to obtain them. For more information or a copy of the new law, contact the State Historic Preservation Office, Division of Culture and History, Cultural Center, Capitol Center, Charleston, WV 25305, tel: (304) 348-0240.

LINCOLN 2 - 6 JUNE 1992
SPNHC ANNUAL MEETING

FROM OUR CORRESPONDENTS

The American Society of Mammalogists Committee on Information Retrieval sponsored a symposium *Applications of Geographic Information Systems (GIS) to Mammalogy* during the annual meeting in Manhattan, Kansas, 16 June. Four speakers provided a broad overview of the subject, then a fifth and final presenter used the host institution's Konza Prairie Project to illustrate the application of these ideas. During the rest of the meeting, several other opportunities were provided for attendees to learn more about GIS. Symposium speaker Joe Berry demonstrated GIS usage via an interactive computer hook-up to his Colorado State University system. Environmental Systems Research Institute was on hand to demonstrate their software throughout the week. John Briggs, Kansa-LTER Data Manager, provided demonstrations and tours of the K-State GIS laboratory.

A follow-up publication which goes far beyond the depth of the two-hour oral presentation will be edited by symposium organizers Pete August, Sue McLaren and Paul Steblein, and The Oklahoma Museum of Natural History and The Carnegie Museum of Natural History will publish it jointly in 1992. Funding to support the production of this publication has been received from the National Science Foundation. NSF also provided support for the two non-mammalogist speakers who participated in the symposium.

In 1990, Richard Thorington began compiling a listing of Mammalogists on E-Mail. At this time, the list contains 115 individuals, their addresses, phone, FAX, and E-mail addresses. The list may be viewed and additions/corrections can be made by contacting Thorington: MNHVZ049@SIVM.BITNET.

The Committee on Information Retrieval has been up-dating and expanding the *Documentation Standards for Automatic Data-processing in Mammalogy* that was published in 1979. In addition to fine-tuning established data fields, the committee is examining documentation for: a) frozen tissue collections; b) specimen condition; c) loan history; and d) bibliographic information pertaining to collection holdings. Considerable progress has been made during the past year and work on this project will continue during the next year.

. . . . Sue McLaren, Carnegie Museum

HEALTH AND SAFETY NOTES

A brief list of some regulations and announcements extracted from recent issues of ACTS FACTS. Through the courtesy of Monona Rossol, editor, SPNHC exchanges newsletters with ACTS. Information about subscriptions to ACTS FACTS may be obtained from Ms. Rossol. (#8)

v.5(1):4 Steam humidification hazards. Boiler steam used to humidify the air was contaminated with the corrosion inhibiting chemicals diethylaminoethanol (DEAE) and cyclohexylamine. An incident

was reported at an art museum where DEAE not only made people feel ill, but deposited on surfaces and caused damage to the varnish on paintings. The source of water for steam should be carefully monitored for contamination.

v.5(4):3 DMF. A NIOSH alert on the solvent dimethylformamide (DMF) was issued. DMF, commonly used in art conservation, is found in products such as paint strippers, textile dyes, printing inks, and adhesives. Air-supplied respirators or self-contained breathing apparatus are recommended when engineering controls are not feasible. A copy of the alert can be obtained by asking for Publication No. 90-105 from NIOSH. (#9)

v.5(5):3 Vacuum cleaners. Ordinary household, shop and industrial vacuums are known to pass fine respirable particles through their filters and back into the environment. Regular use can actually increase the proportion of respirable particles (10 microns and smaller) in the dust. To capture substances in this size range, some institutions are purchasing vacuums specially fitted with high efficiency particulate air (HEPA) filters. These filters must meet a NIOSH test which certifies that they will capture 99.97% of particles that are 0.3 microns in diameter. In order to force air through these fine filters, HEPA vacuums are specially engineered. HEPA vacuums can be purchased from many safety equipment suppliers at prices ranging from \$500 to several thousand dollars. For a list of suppliers (without endorsements), send ACTS FACTS a self-addressed stamped envelope. (#8)

Editor's note: See also Lisa Goldberg's article pg. 6.

FUNDING

NEH FUNDS AVAILABLE

The National Heritage Preservation program of The National Endowment for the Humanities' Office of Preservation is accepting applications for FY92 in two areas: stabilization of collections of material culture; and training in collections care. Grants of up to \$1 million will support projects to stabilize material culture collections important to the humanities. Support may be requested for: the housing and storage of objects; improved climate control; installation of security, lighting, and fire-prevention systems; programs to provide training in collections care and maintenance; and educational programs to train conservators of objects. The next annual deadline for both programs is November 1, 1991. The staff of the Office of Preservation will be pleased to discuss possible programs and draft applications at least four weeks before the November 1 deadline. For further information, contact: Office of Preservation, Room 802, NEH, 1100 Pennsylvania Ave., NW, Washington, D.C. 20506, tel: (202) 786-0570.

CONSERVATION ASSESSMENT PROGRAM

The Conservation Assessment Program provides an overall assessment of the condition of a museum's environment and collections to identify conservation needs and priorities. CAP is coordinated by the National Institute for the Conservation of Cultural Property and funded by the Institute of Museum Services. The program is especially designed for small museums and awards are on a first-come basis. Those interested in applying for a CAP grant for 1992 must submit their names to NIC by 30 September 1991. (#11)

COURSES

Life After Death:

The practical conservation of natural history collections is the title of a one day UKIC conference to be held at the Ipswich Museums and Ipswich School, Suffolk, on 27 February 1992. In April 1990, Ipswich Museum opened its fully restored "Victorian Natural History Gallery". The exhibits include mammals, reptiles, fish, crustaceans, shells and birds. There are many local museums with huge natural history collections which will at some time need conserving and yet there are hardly any specialist natural history conservators. The conference will concentrate on the practical rather than the theoretical, and will appeal to general conservators and specialist natural history conservators alike. Papers are invited from interested parties and more details can be obtained from Bob Entwistle. (#29)

Natural History Curatorship
November 20-29, 1991

The special interests and concerns which arise in collecting and caring for natural history materials in the museum setting provide the focus for this intensive course. Topics include contributions that museum biological collections have made and are continuing to make to our knowledge of natural history; historical and modern uses of collections and biological research; ethical and conservation considerations relating to collecting; care, storage and exhibition of natural history materials; and ways in which to establish criteria for building collections for future, unknown uses.

Instructor: Dr. Ted Miller, Asst. Director, Royal BC Museum; Early Registration Deadline: October 21; Fees: \$542.80 (credit) \$500 (non-credit); Information and registration materials can be obtained from the Cultural Resource Management Program, Div. Univ. Extension, Univ. Victoria, P.O. Box 3030, Victoria, BC V8W 3N6, Canada, tel: (604) 721-8462, FAX: (604) 721-8774.

JOB ANNOUNCEMENT
CHAIRPERSON, BISHOP MUSEUM'S
PACIFIC REGIONAL CONSERVATION CENTER

The Chairperson manages and directs the Pacific Regional Conservation Center (PRCC) which serves 33 member institutions and private clients in Hawai'i and Pacific Island areas. The Chairperson will have the opportunity to plan innovative, cost-effective programs to serve the region. PRCC provides advice and treatment from paper, paintings and object labs. Materials seen include natural history and ethnographic specimens, historic materials, Asian art, modern art, books, and art on paper. Interns have been hosted from a variety of programs. PRCC is participating in the Mellon Advanced Objects Conservation Internship challenge grant and the Chairperson plays a leadership role in perpetuating the endowment. The facilities are on the fourth floor of the year-old H.K.L. Castle Memorial Building and are among the finest in the profession.

Current staff levels: 6 conservators, 1 technical, clerical staff and interns.
Current budget: \$640,000 (including restricted funds)

Required: 2 years administrative, financial planning/budgeting experience at similar budget level; or 4 years experience at next lower level of responsibility; 2 years supervisory experience; ability to communicate and work with broad spectrum of organizations of differing sizes and disciplines, and individuals from diverse backgrounds; outstanding written and verbal communication skills; knowledge of the conservation field

Desired: conservation treatment experience; regional center experience; knowledge of federal, state and private funding sources; successful grant writing experience; fundraising experience; innovative, entrepreneurial experiences

Education: College degree, masters preferred; applications are invited from those with experience in fields of conservation, museum administration, or related fields.

Send resume and letter of interest to: Ms. Anita Manning, Assistant Director, Collections Management, Bernice P. Bishop Museum, P.O. Box 19000-A, Honolulu, HI 96817-0916, tel: (808) 848-4117.

PUBLICATIONS

Natural History Museums: Directions for growth is a compilation of papers presented at the 1987 symposium "New Directions and Professional Standards for Natural History Museums" sponsored jointly by the Mountain-Plains Museum Association and Midwest Museum Conference. Edited by Paisley S. Cato and Clyde Jones, the eighteen chapters address: the roles and functions of natural history museums; conservation, care, use, management and preservation of collections; the role of exhibits; and the future of natural history museums. The book is available from Texas Tech University Press. (#30)

First International Workshop on the Management of Zoological Collections, Calcutta: Proceedings: Management of mammal collections in tropical environments brings together 43 papers presented at the Calcutta meeting, 19 - 25 January 1984. It is available from Vedams Books International. (#31)

National Park Service Museum Handbook, Part 1, "Museum Collections" is now available. Part 1 of the revised handbook provides guidance to park staff on scope of collections, handling objects, environmental monitoring and control, pest management, museum collections storage, packing and shipping, conservation treatment, security, fire protection, emergency planning, curatorial health and safety, planning and programming for museum collections management, and museum ethics. This part of the handbook also addresses preventive conservation for various classes of objects, including archeological collections, paintings, cellulose nitrate negatives, paper objects, textiles, furniture, metal objects and objects made from ceramic, glass, and stone. Future amendments will include preventive conservation guidance for leather and skin objects, photographic collections and natural science collections. To purchase the Handbook, please give complete title and the GPO Stock No: 024-005-01078-5, \$36.00 (international \$45.00) includes shipping. (#10)

Fumigants and Pheromones: A newsletter for the insect control and pest management industry, distributed by Fumigation Service and Supply, Inc. (10540 Jessup Blvd., Indianapolis, IN 46280-1451, tel: (317) 846-5444), is a free newsletter with news about pest control chemical and non-chemical management techniques. The Spring 1991 issue includes notes on respiratory equipment recommendations for DDVP, freezing as a method of controlling Indian-meal moths, and a tip on improving the performance of cockroach-monitoring sticky traps.

CONTACTS AND SUPPLIERS

1. Stephen Williams, SPNHC President, Natural Science Research Laboratory, Museum of Texas Tech University, P.O.Box 4499, Lubbock, Texas 79409-3191, tel: (806) 742-2486.
2. Charlie Messenger, University of Nebraska State Museum, W436 Nebraska Hall, Lincoln, Nebraska 68588-0514, tel: (402) 472-2657.
3. Lynn Barkley, Los Angeles County Museum of Natural History, 900 Exposition Blvd., Los Angeles, California 90007, tel: (213) 744-3369.
4. Symposium '92 Local Organizing Committee, Museo Nacional de Ciencias Naturales, Jose Gutierrez Abascal 2, 28006 Madrid, Spain, tel: 411 13 28 ext. 1145; FAX: 564 50 78; BITNET: MCNMA13@EMDCSIC1
5. Grant Hughes, Royal British Columbia Museum, 675 Belleville Street, Victoria, British Columbia V8V 1X4 Canada, tel: (604) 387-5706.
6. John Simmons, Museum of Natural History, University of Kansas, Lawrence, Kansas 66045, tel: (913) 864-3342.
7. Suzanne McLaren, Carnegie Museum of Natural History, 5800 Baum Blvd., Pittsburgh, PA 15206, tel: (412) 665-2615.
8. Monona Rossol, ACTS, 181 Thompson St. #23, N. Y., NY 10012
9. NIOSH Publication Dissemination, DSDTT NIOSH, 4676 Columbia Parkway, Cincinnati, OH 45226; tel: (513) 533-8287
10. Superintendent of Documents, Government Printing Office, Washington, D.C.. 20402-9325
11. National Institute for Conservation, 3299 K Street NW, Suite 403, Washington, D.C. 20001, tel: (202) 625-1495.
12. University of Alabama Press, Box 870380, Tuscaloosa, AL 35487
13. The Athlone Press, London; unable to find address.
14. Humanities Press International Inc. 171 First Ave., Atlantic Highlands, NJ 07716
15. American Society of Industrial Security, 1655 North Fort Meyers Drive, Suite 1200, Arlington, VA 22209, tel: (703) 522-5800.
16. Administration Office of the Conservation Center, Institute of Fine Arts, New York University, 14 East 78th Street, New York, New York 10021, tel: (212) 772-5800.

PUBLICATIONS OF INTEREST

Natural history museums: Directions for growth. Cato, P.S. and C. Jones (eds.), 1991. Texas Tech Univ. Press, Lubbock, 249 p. \$25 (+ \$2 postage) (#30)

Preserving the Earth's biological diversity: The role of museums. Nicholson, T.D., 1991. Curator 34(2):85-108. What the public and its institutions can do and are doing to alleviate the biodiversity crisis.

Curators and culture: The museum movement in America, 1740-1870. Orosz, J.J., 1990. Univ. Alabama Press, Tuscaloosa, 304 p. \$34.95 (#12)

Objects of knowledge (New research in museum studies: An international series, volume 1). Pearce, S. (ed.), 1990. The Athlone Press, London, 235 p. \$55 (#13); U.S. and Canada distributor: Humanities Press, NJ (#14). Published annually, articles will emphasize conceptual aspects of museology.

Suggested guidelines in museum security. 1991. American Society of Industrial Security Standing Committee on Museums, Library and Archives Security. 20 p. \$12 (#15)

Preventative conservation in the tropics. Gerhard, C., 1990. Institute of Fine Arts, New York, 10 p. \$2.50 (#16) A bibliography.

Pest control in museums - The use of chemicals and associated health problems. Linnie, M.J., 1990. Museum Management and Curatorship 9:419-423.

Cataloguing collections - erratic starts and eventual success: A case study. Rivard, P.E. and S. Miller, 1991. Curator 34(2):119-124. Maine State Museum.

In-house replications for museum sale. Schrimper, G.D., 1991. Curator 34(2):132-143. How to make and merchandise items related to a museum's collections.

Bibliography: Theses, dissertations, research reports, in conservation, 2nd revised and expanded ed. Working Group on Training, ICOM Committee for Conservation, 1990. ICCROM, Rome, 284 p. \$20 (international money order or bank draft only, no personal checks) (#17) 3500 titles from 74 institutions, covering 1975-1989.

The thermal aging of Parylene and the effect of antioxidant. Grattan, D.W. and M. Bilz, 1991. Studies in Conservation 36(1):44-52. Useful life of Parylene N is estimated at 2200 yrs; Parylene C at 130,000 yrs.

Enzyme treatments: The science and the application in conserving artistic and historic works. A selected bibliography 1940-1990. Morse, E. (preparer), 1990. Abbey Publications, Provo, 17 p. \$2.75 (#18) Prepared for 1990 seminar, 170 references.

Mineralogical changes arising from the use of aqueous sodium carbonate solutions for the treatment of archaeological copper objects. Pollard, A.M., R.G. Thomas, and P.A. Williams, 1990. Studies in Conservation 35(3):148-152. Formation of chalconatronite.

Microbial control by low oxygen and low relative humidity environment. Valentin, N., M. Lidstrom, and F. Preusser, 1990. Studies in Conservation 35(4):222-230. Use of nitrogen gas and low RH, safe, non-invasive and can reduce further chemical reaction.

The prediction of the long-term photo-aging of soluble polyamides used in conservation. Fromageot, D. and J. Lemaire, 1991. Studies in Conservation 36(1):1-8. Study of "soluble nylon" used as consolidation coatings.

The official World Wildlife Fund guide to endangered species of North America. 1990. 2 vols., 1180 p. Species descriptions with appendices of lists by state and U.S. and Canadian agencies and organizations.

Techniques and materials in biology, care and use of living animals, plants and microorganisms, 2nd ed. Behringer, M.P., 1989. A section on preserving specimens and an appendix on chemical preparation.

First international workshop on the curation of zoological collections, Calcutta: Proceedings. Management of mammal collections in tropical environments. 1991. Calcutta, 654 p. \$95 US (includes airmail postage) (#31)

Reconstituting dehydrated museum specimens. Vogt, K.D., 1991. Curator 34(2):125-131. Steps for restoring or conserving biological specimens.

Entomology, a guide to information sources, 2nd ed. Gilbert, P. and C.J. Hamilton, 1990. Mansell Publishing, London, 259 p. (#19) Literature and identification sections as well as sections on specimens and collections, curation, suppliers, newsletters and organizations.

Type catalogues of herpetological collections: an annotated list of lists. Crumly, C.R., 1990. Herpetological Circular 18, Society for Study of Amphibians and Reptiles. 50 p. Refers to over 100 type catalogues.

Archive and museums data models and dictionaries. Bearman, D., 1990. Archives and Museum Informatics Technical Report 10, 100 p. \$40 (#20)

1990 Directory of software for archives and museums. Cox, L. and D. Bearman (compilers), 1990. Archives and Museum Informatics Technical Rept. 11, 196 p. \$40 (#20)

Facts and artefacts: How to document a museum collection. 1991. Museum Documentation Association. £5.95 (#21) Basic documentation for the smaller museum.

The MDA data standard. 1991. Museum Documentation Association. £45 (#21) New edition, reference manual for fields of information in museum records.

Who is using What software for documentation Where. 1991. Museum Documentation Association. £5.95 (#21) Information on UK museum suppliers and users.

WORKSHOPS, TRAINING AND CONFERENCES

Compiled by the Education and Training Committee

FALL

- ???? New York State Professional Certificate in Museum Studies; New York (#23)
- ???? Special Problems in Museum Work; University of Arkansas, Department of Anthropology; Margaret Hoffman, UA-DA, 417 Hotz Hall, Fayetteville, AR 72701, tel: (501) 575-3483

SEPTEMBER

- ???? Introduction to Pulp and Paper Technology; Illinois; CPA (#22)
- ???? Problems in Building Conservation in Extreme Climates; New Orleans, Louisiana; Association for Preservation Technology International, P.O. Box 8178, Fredericksburg, VA 22404, tel: (703) 373-1621
- ???? The Conservation of Leather Upholstery; UK; Christopher Calnan, Leather Conservation Centre, 34 Guildhill Road, Northampton NN1 1EW
- Sep-Dec. Collections Management: Legal and Ethical Issues; George Washington University, Museum Studies Program; Marie C. Malaro, GWU/MSP, Academic Center, T-215, Washington, DC 20052, tel: (202) 994-7030
- 1 Sep-31 Dec. Chemistry for Conservators (correspondance); John Maseman, South Florida Conservation Center, 3400 Spring St., Pompano Beach, FL 33062, tel: (302) 785-7512
- 3 Sep-21 Aug. Museum Technician Training Program; The Manitoba Museum of Man and Nature; MTTP, 190 Rupert Ave., Winnipeg, Manitoba R3B 0N2, tel: (204) 988-0675
- 5 Sep-12 Dec. Museum Studies I: Perspectives on Museums; New York; (#23)
- 5 Sep-12 Dec. Curating Collections: Care, Handling, & Examination of Objects; New York; (#23)
- 5 Sep-12 Dec. Exhibition Planning and Design; New York; (#23)
- 10-13. Fire, Safety and Occupational Health Programs for Museums and Other Cultural Institutions; Washington, DC; Smithsonian Institution, Office of Environmental Management and Safety, 490 L'Enfant Plaza, Suite 4202, Washington, DC 20560, tel: (202) 287-3615
- 10-14. Reweaving of Damaged Textiles; Mount Carroll, Illinois; (#25)
- 12-14. Care of Photographic Collections; (#25)
- 14-15. History, Purpose and Function of Museums; (#26)
- 15-19. American Association of Zoological Parks and Aquariums, Annual Meeting; San Diego, California; Robert Wagner, AAZPA, Oglebay Park, Wheeling, WV 26003; tel: (304) 242-2160
- 16-21. Saving the Twentieth Century: The Degradation of Modern Materials; Ottawa, Ontario; Cliff McCawley/David Grattan, Symposium 91, CCI, Department of Communications, 1030 Innes Road, Ottawa, K1A 0C8
18. ABC's of Collections Management; Mount Hope, Ontario; Rob Schweyer, Canadian Warplane Heritage Museum, Operational Headquarters, Hamilton Civic Airport, P.O. Box 35, Mount Hope, ON L0R 1W0, tel: (416) 679-4183, FAX: (416) 679-4186
- 19-20. Paper and Textiles: the Common Ground; Glasgow, Scotland; Linda Eaton, Royal Museums of Scotland, York Buildings, Queen St., Edinburgh EH2 1JD
- 19-21. African-American Museums Association, African-American Life and Culture; P.O. Box 150153, Dallas, TX, 75315-0153, tel: (214) 565-9026
20. How to Preserve Collections in a Hostile Environment; Chicora Foundation; Hilton Head Museum, South Carolina; Debi Hacker, Chicora Foundation, Inc., P.O. Box 8664, 861 Arbutus Drive, Columbia, SC 29202, tel: (803) 787-6910
21. Exhibit Design; Swift Current, Saskatchewan; (#24)

- 21-25. National Rally 91-Fifth National Conference of Land Trusts; Land Trust Alliance; Kathy Barton, LTA, 900 Seventeenth St. NW, Ste. 410, Washington, DC 20006, tel: (202) 785-1410
- 23-24. All for Love..(and Money): Museum Work and the Museum Labour Market; Edmonton, Alberta; (#26)
- 23-25. Exhibit Design; Chatham, Ontario; (#27)
- 23-25. Museums and Historic Buildings in Cold Climates; Helsinki, Finland; Andrew Millward, The Manchester Museum, The University, Oxford Road, Manchester M13 9PL, tel:(44-61) 275-2667, FAX: (44-61) 275-2676
- 23-25. Architectural Records: Identification, Preservation and Access AND Elements of Preservation Management; Philadelphia, Pennsylvania; SAA (#28)
- 23-27. Orientation Program; Ottawa, Ontario; Karen Lisa Oxom, Project Officer, National and International Program, National Gallery of Canada, 380 Sussex Dr., P.O. Box 427, Stn. A, Ottawa, ON K1N 8N4, tel: (613) 990-0578, FAX: (613) 993-3412
- 24-28. Western Museums Conference, Annual Meeting; Las Vegas, Nevada; Kate Sibley, Executive Director, WMC, 5801 Wilshire Blvd., Los Angeles, CA 90036, tel: (213) 857-6307
- 24-28. The Vellum Leaf; Mount Carroll, Illinois; (#25)
- 24-28. Microchemical Analysis for Object Conservators; (#25)
- 25-27. ASTM Committee D-6 on Paper and Paper Products (including re-cycled paper); Las Vegas, Nevada; Bob Malcolm, ASTM, tel: (215) 299-5400
- 25-28. Midwest Museum Conference, Annual Meeting; Minneapolis, Minnesota; Gordon Murdock, Bell Museum of Natural History, 10 Church St. SE, Minneapolis, MN, 55455, tel: (612) 624-1852
- 25-28. Care of Archeological Collections; Mount Carroll, Illinois; (#25)
- 25-29. Society of American Archivists Meeting, Philadelphia, Pennsylvania; (#28)
- 26-28. Cultural Trusteeship: Responsibilities of Boards, Directors, Staff; Bathurst, New Brunswick; (#32)
- 27-28. Indian Heritage and Museums; Saskatoon, Saskatchewan; (#24)
- 30 Sep-1 Oct. Issues in the Protection and Interpretation of Archaeological and Cultural Materials; Interpretive Management Institute; Vail, Colorado; Broc Stenman, IMI Coordinator, Mott Training Center, P.O. Box 699, Pacific Grove, CA 93950, tel: (408) 649-2956
- 30 Sep-3 Oct. Conference on Conservation of Photographs, Drawings, Manuscripts and Printed Papers; Paris, France; ARSAG, 36, rue Geoffroy Saint Hilaire, 75005 Paris, France, tel: (33-1)45 87 06 12; FAX: (33-1)47 07 62 95

OCTOBER

- ???? Introduction to Papermaking Wet-end Chemistry; New Jersey; CPA (#22)
- ???? Paper Properties and Testing; New Jersey; CPA (#22)
- ???? Avoid Disaster by Design; New Jersey; CPA (#22)
- ???? Protection/Preservation of Cultural Resource Sites; Paul Nickens, US Army Corps of Engineers - Waterways, Experiment Station (CEWES-EE-R), 3909 Halls Ferry Rd., Vicksburg, MS 39180-6199, tel: (601) 634-2380
- ???? Standards of Industrial Conservation; Mike Corfield, Dept. of Archeology and Numismatics, National Museum of Wales, Cardiff CF1 3NP
- 5-6. Research; Alberta Museums Association; (#26)
- 6-9. Southeastern Museums Conference, Annual Meeting; Jackson, Mississippi; Pamela Meister, SEMC, P.O. Box 3494, Baton Rouge, LA 70821, tel: (504) 383-5042

6-18. Preventive Conservation for Geological Collections; Kingston, Ontario; Director, Art Conservation Department, Queen's University, Kingston, Ontario K7L 3N5

7-9. Museums and the Community; Tillsonburg, Ontario; (#27)

7-10. New England Museum Association, Annual Meeting; Lowell, Massachusetts; Laura Roberts, Executive Director, NEMA, Boston National Historic Park, Charleston Navy Yard, Boston, MA 02129, tel: (617) 741-1424

9. Conservation of Polychrome Objects; Regina, Saskatchewan; (#24)

14-16. International Conference on Hypermedia and Interactivity in Museums; Pittsburgh, Pennsylvania; David Bearman; (#20)

16-20. Museum Computer Network; Santa Monica, California; Andrew Roberts, MDA; (#21)

17-19. Nebraska Museums Assoc.; Marge Rashid, tel: (402) 444-5071

18. Policy Writing; Whitewood, Saskatchewan; (#24)

19-22. Association of Science-Technology Centers Conference; Louisville, Kentucky; ASTC, 1025 Vermont Ave. NW; Suite 500, Washington, DC 20005-3516, tel: (202) 783-7200

21-25. Practical Management of Collections; Villeurbanne, France; CNRS Formation, 1 place Aristide-Briand, 92195 Meudon Cedex, France

22-23. National Institute for Conservation Meeting; (#11)

23-26. Mountain-Plains Museums Association, Annual Meeting; Albuquerque, New Mexico; Pat Florence, MPMA, P.O. Box 335, Manitou Springs, CO 80829

23-31. First Research Forum on Recycling (Technical Session of CPPA); Toronto, Ontario; D. H. Paterson, CPPA, Sun Life Bldg., 19th Fl., 1155 Metcalfe St., Montreal, Quebec H3B 4T6, tel: (514) 866-6621

25-26. Care of Collections; Yorkton, Saskatchewan; (#24)

27-30. Mid-Atlantic Association of Museums, Annual Meeting, Buffalo, New York; Rebecca Wilson, MAAM, P.O. Box 817, Newark, DE 19711, tel: (302) 731-1424

28. Policy Writing; Lloydminster, Saskatchewan; (#24)

28-30. Adhesion Science and Technology; New Jersey; CPA (#22)

29. Policy Writing; Melfort, Saskatchewan; (#24)

NOVEMBER

?????. Elastomers Technology; New Jersey; CPA (#22)

2. Museums and Education; North Battleford, Saskatchewan; (#24)

3-4. Computer Interchange of Museum Information (CIMI) Meeting; Santa Monica, California; John Perkins, CIMI Project Manager, 5659 Merkel St., Halifax, Nova Scotia B3K 2J1, tel: (902) 454-4077, FAX: (902) 453-6153

4-6. The Historic Building; Toronto, Ontario; (#27)

4-8. A View to the Past: How to Photodocument Historic Places; National Park Service; Reno, Nevada; Cultural Resources Management, Division of Continuing Education - 048, University of Nevada, Reno, NV 89557-0024

4-8. Archeological Curation & Collections Management; Washington, DC; National Park Service; Frances Lumbar/Brenda Sulick, George Washington University, Center for Career Education and Workshops, 801 22nd St. NW, Suite T-409, Washington, DC 20052, tel: (202) 994-7036

8. Conservation Training in Field Archeology; Columbia, Missouri; National Park Service; Leanne Stone, Program Coordinator, Division of Continuing Education, University of Nevada- Reno, Reno, NV 89557-0032, tel: (702) 784-4046

15-18. The Role of Chemistry in Archeology; Hyderabad, India; The Birla Institute of Scientific Research

16. Collections Management; Saskatoon, Saskatchewan; (#24)

18. Public and Community Relations; Regina, Saskatchewan; (#24)

18-20. Industrial Rheology; New Jersey; CPA (#22)

21-22. Permanence of Artist's Materials and Techniques; Saskatoon, Saskatchewan; (#24)

21-23. Symposium on Ancient and Historic Metals; Santa Monica, California; Brian Considine, Conservator, Getty Museum, P.O. Box 2112, Santa Monica, CA 90496, tel: (213) 459-7611

30. Museum and Gallery as Paradigm; SAME AS ABOVE

27 Nov-6 Dec. Interpretive Program Management; Harper's Ferry, West Virginia; National Park Service

30 Nov-1 Dec. Collections Management; (#26)

WINTER

?????. Context of Material Culture; University of Denver, Department of Anthropology; Dr. Terry Reynolds, UD-DA, Denver, CO 80208, tel: (303) 871-4384

DECEMBER

?????. Applied Surface and Colloid Chemistry; Florida; CPA (#22)

9-10. The Merry-Money-Go-Round: Funding Museums in the Nineties; Calgary, Alberta; (#26)

9-13. Archeological Curation & Collections Management; Tucson, Arizona; National Park Service; Frances Lumbar/Brenda Sulick, George Washington University, Center for Career Education and Workshops, 801 22nd St. NW, Suite T-409, Washington, DC 20052, tel: (202) 994-7036

16-20. Evaluation of Interpretive Programs; Harper's Ferry, West Virginia; National Park Service

1992:

JANUARY

9-10. Artifact Mounting; Regina, Saskatchewan; (#24)

11. Care of Mixed Collections; Fort Qu'Appelle, Saskatchewan; (#24)

18. Care of Mixed Collections; Humboldt, Saskatchewan; (#24)

25. Care of Mixed Collections; Maple Creek, Saskatchewan; (#24)

FEBRUARY

7-8. Designing Exhibits for Cases; Kindersley, Saskatchewan; (#24)

17-22. Certificate in Museum Studies (entry level); St. John, New Brunswick; (#32)

27. Life After Death-The Practical Conservation of Natural History Collections; Suffolk, England; (#29)

APRIL

1-4. Institute of Paper Conservation Conference; Manchester, England; Conference Administrator, Millstream Europe Ltd., 5th Harting, Petersfield, Hampshire GU13 5LF

7-9. Leather for Conservators #C211; Conservation Analytical Laboratory at MSC, Smithsonian Institution, Washington, DC 20560; tel: (301) 238-3700

25-29. American Association of Museums, Annual Meeting; Baltimore, Maryland; Meetings and Continuing Education Department, AAM, 1225 Eye St. NW, Suite 200, Washington, DC 20005, tel: (202) 289-9113

MAY

4-20. Preventive Conservation: Museum Collections and Their Environment; Marina del Rey, California; Kathleen Dardes, The Getty Conservation Institute, 4503 Glencoe Ave., Marina del Rey, California 90292-6357, tel: (213) 822-2299, FAX: (213) 821-9409

10-15. International Symposium for the Preservation and Conservation of Natural History Collections; Madrid, Spain; (#4)

JUNE

2-6. SPNHC Annual Meeting; Lincoln, Nebraska; (#2)

5-6. SPNHC Workshop "Getting the Bugs Out"; (#3)

SPNHC COUNCIL

PRESIDENT - Stephen L. Williams
 PAST-PRESIDENT - Cesar Romero-Sierra
 PRESIDENT-ELECT - Gerald R. Fitzgerald
 SECRETARY - Janet B. Waddington
 TREASURER - Suzanne B. McLaren
 MANAGING EDITOR - Paisley S. Cato
MEMBERS-AT-LARGE
 1992 - J. Phillip Angle
 Carol J. Bossert
 1993 - Catharine A. Hawks
 John A. Simmons
 1994 - Grant W. Hughes
 Carolyn L. Rose

COMMITTEE CHAIRS

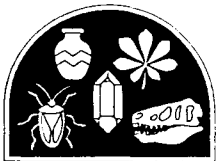
Archival Committee - J. Phillip Angle
 Bylaws Committee - Cesar Romero-Sierra
 Conference Committee - Gerald R. Fitzgerald
 Conservation Committee - Carolyn L. Rose
 Education and Training Committee - Lynn Barkley
 Election Committee - Judith Price
 Executive Committee - Stephen L. Williams
 Finance Committee - Suzanne B. McLaren
 Membership Committee - Elizabeth E. Merritt
 Publications Committee - Paisley S. Cato
 Publicity and Liaison Committee - Elana Benamy
 Resources Committee - Catharine A. Hawks

SPNHC Newsletter
 Editor - Julia Golden

SPNHC NEWSLETTER is a benefit of membership in the SPNHC and is published biannually, summer and winter. Address all inquiries concerning membership to the SPNHC Treasurer. Inquiries concerning newsletter content should be addressed to the editor. Deadlines for submitting information for inclusion in the SPNHC Newsletter are January 15 and July 15.

CONTACTS AND SUPPLIERS (continued)

17. ICCROM, Publications Sales Department, Via di San Michele 13, 1-00153 Rome, RM, Italy.
18. Abbey Publications Inc., 320 E. Center Street, Provo, UT 84606.
19. Mansell Publishing, Sales Dept., Artillery House, Artillery Row, London, SW1P 1RT UK. or Mansell Publishing, 125 East 23rd Street, New York, New York 10010.
20. Archives and Informatics, 5600 Northumberland Street, Pittsburgh, PA 15217.
21. Museum Documentation Association, 347 Cherry Hinton Road, Cambridge, CB1 4DH UK; tel: (0223) 242848; FAX: (0223) 21575
22. Center for Professional Advancement, P.O. Box H, East Brunswick, NJ 08816; tel: (908) 238-1600; FAX: (908) 238-9113
23. New York University, Museum Studies Program, Flora Kaplan/Jane Gover, NYU-GSA&S-MSP, 19 University Pl., Room 308, New York, NY 10003; tel: (212) 998-8080.
24. Museums Association of Saskatchewan; Patricia Fiori, Education Coordinator, 1808 Smith St., Regina, Saskatchewan, S4P 2N3 Canada; tel: (306) 780-9269; FAX: (306) 359-6758
25. Campbell Center for Historic Preservation Studies, P.O. Box 66, Mt. Carroll, Illinois 61053; tel: (815) 244-1173
26. Alberta Museums Association, 40.9912-106 St., Edmonton, Alberta, T5K 1C5, Canada; tel: (403) 424-2626
27. Ontario Museum Association, Professional Development, George Brown House, 50 Baldwin St., Toronto, ON M5T 1L4, Canada; tel: (416) 348-8672, FAX: (416) 348-8689
28. Society of American Archivists, 600 S. Federal St., Suite 504, Chicago, IL 60605; tel: (312) 992-0140
29. Bob Entwistle, Ipswich Museum, High St., Ipswich, Suffolk, UK; tel: 0743-213761
30. Texas Tech University Press, Sales Office, Lubbock, Texas 79409; tel: (800) 832-4042
31. Vedams Books International, 12A/11 W.E. Area, Post Box 2674, New Delhi, 110 005 India
32. Association Museums New Brunswick, P.O. Box 4503, Fredericton, NB E3B 1B8, tel: (506) 452-2908



SPNHC NEWSLETTER
 Julia Golden
 Department of Geology
 University of Iowa
 Iowa City, IA 52242

FIRST CLASS MAIL

