

IFLA  
Preservation and Conservation  
Core Activity



Annual Report  
2006



By Christiane Baryla

**Annual Report 2006**  
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**PART 1: GENERAL REPORT**

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## INTRODUCTION

This annual report covers the period from 1 March 2006 to 31 December 2006.

2006 has been a year of change for PAC with the nomination of a new Director to succeed Marie-Thérèse Varlamoff who retired on March 15 (see MTV report).

### *Mission:*

PAC (Preservation and Conservation) is one of the core activities of IFLA. Launched in 1986 PAC has been implemented as a network with a focal point and regional centres. Pac has one major goal: to ensure that library and archive materials, published and unpublished, in all formats (including audio-visual and digital) be **preserved** in an **accessible format**, for as long as possible.

### *Staff:*

Director: Christiane Baryla from March 15th 2006.

Secretary: Isabelle Fornoni.

IFLA PAC Programme Officer: Flore Izart was nominated as Programme Officer on December 18th 2006 as Corine Koch left the position for parental leave.

## A – MANAGEMENT

### *1. Advisory Board*

Proposed in 2001 by the IFLA Professional Committee, the Advisory Board is chaired by a member of IFLA GB and comprises a senior manager of the host library (BnF). Changes in the composition of the Advisory Board were considered in 2006 by the IFLA Governing Board, two members having retired or having left the position they had when they applied for AB membership. Two new members were added.

#### Members of the Advisory Board are:

- Réjean Savard, Professor, EBSI-Université de Montréal, Chair. (IFLA GB Member, new AB Member)
- Susan Allen, Chief Librarian of the Research Library at the Getty Research Institute, Los Angeles, USA. (Chair of IFLA Section Rare Books and Manuscripts, new AB Member)
- Maria Isabel Cabral da Franca, President, Grupo de Informação e Documentação Jurídica, Rio de Janeiro. (Chair of IFLA Division VIII, member of GB new AB Member)
- Jan Fullerton, General Director of the Australian National Library.
- Nancy Gwinn, Director of the Smithsonian Institution Libraries, Washington D.C., USA (IFLA GB Member, Chair of IFLA Preservation and Conservation Section)
- Johann Maree, Preservation Unit, University of Cape Town, South Africa. (Director of IFLA PAC Regional Centre for English-Speaking Africa, new AB Member)
- Deanna Marcum, Associate Librarian for Library Services at the Library of Congress, Washington D.C., USA.
- Ellen Namilha, Director of the National Library and Archives Services, Windhoek, Namibia.
- Lucien Scotti, Director for European and International Affairs, Bibliothèque nationale de France, Paris (new AB Member).
- Sohair Westawy, Chief Librarian, Bibliotheca Alexandrina, Egypt (new AB Member)
- Christiane Baryla IFLA PAC Core activity Director

#### Meeting of PAC Advisory Board –Seoul- 22 August, 2006:

In attendance: Réjean Savard, Maria Isabel Cabral da Franca, Jan Fullerton, Susan Allen, Nancy Gwinn, Christiane Baryla. The Advisory Board met in Seoul and mainly discussed the evaluation of the program. As 4 attendees were new AB members, the meeting was mainly a presentation of PAC activities and AB

responsibilities. We regret that, due to scheduling problems and difficulties finding the right meeting room in the Conference Centre, Deanna Marcum and Ellen Namilha were unable to attend.

Nancy Gwinn was a great help as she knew the program very well. So she made an historic presentation of PAC Core activity. Then she focused on the role of AB:

- Assist in improving communication between Regional Centres and the Focal Point.
- Assist in defining a clear policy/strategy prior to the establishment of the PAC strategic plan;
- **Assist in finding external funding.**

On this occasion, Christiane Baryla introduced herself to the attendees. She also presented the draft of the strategic plan 2006-2008 based on proposals and input from Regional Centres and the IFLA General Secretary. The strategic plan was adopted by the AB.

## **2. PAC Regional Centres:**

### Centres

**USA and Canada - Library of Congress, Washington D.C., USA / Dianne van der Reyden, Director of Preservation at the Library of Congress:** the Regional Centre of the Library of Congress has established a North American Network (IFLA-PAC NAN) with the following institutions and representatives: Cornell University, Harvard University, Johns Hopkins University, Library and Archives of Canada, National Archives and Records administration, National Park Service, New York Public Library, Smithsonian Institution, University of Texas-Austin, University of Utah, Yale University. This network focuses on developing an emergency “safety net” for library collections and has been particularly active in the aftermath of hurricanes *Katrina* and *Rita*.

**This North American Network should serve as a model** of what could be developed in other regions.

**Asia - National Diet Library, Tokyo, Japan / Masaki Nasu (Director from May 2005 to May 2006), Yukiko Saito (current Director):** The Regional Centre hosted at the National Diet Library and responsible for Asia was particularly active in 2006, organizing an important satellite meeting in Tokyo before IFLA WLIC in Seoul.

**China - National Library of China, Beijing, China / Chen Li, Deputy director of the National Library of China (NLC).**

**Oceania and South -East Asia - National Library of Australia, Canberra / Colin Webb, Director of Web Archiving and Digital Preservation at the National Library of Australia .**

**Eastern Europe and the CIS - Library for Foreign Literature, Moscow, Russia/ Rosa Salnikova, Head of Preservation.**

**French- speaking Africa - National Library of Benin, Porto Novo / Francis Zogo, National Library Director:** Due to unexpected administrative and political delays, the Centre is not yet operational.

**Southern Africa - University of Cape Town, Cape Town, South-Africa / Johann Maree, Head of Preservation Unit.**

**Latin America and the Caribbean - Biblioteca Nacional de Venezuela, Caracas/ Orietta Palenzuela Ruiz, Head of Preservation.**

**Trinidad & Tobago - National Library and Information System Authority, Port of Spain, / Annette Wallace, National Library Director.**

**Chili - Biblioteca Nacional de Chile, Santiago de Chile / Ximena Cruzat National Library Director.**

**Brasil - Fundação Biblioteca Nacional do Brasil, Rio de Janeiro /Celia Ribeiro Zaher, Diretor of the National Library and of the Centro de processos Técnicos (until June 2006).** Due to changes in the National Library management and due to Celia Zaher left, the Centre has not been active in 2006.

**Meetings of PAC Directors – Paris, 8 March and Seoul, 22 August 2006:**

A mid-year meeting was scheduled in Paris on the occasion of the International Symposium, “The 3-D’s of Preservation: disasters, displays, digitization” co-organized with IFLA P&C Section. The meeting focused on PAC changes as Christiane Baryla, new Director, was presented to the attendees by Marie Thérèse Varlamoff. Not all directors could attend, mainly for financial reasons. Therefore, I wish to thank sincerely all the directors of regional centres who made the effort to come from very far away. So, many thanks to Ximena Cruzat (PAC Centre for Chile, Argentina, Ecuador, Peru), Dianne L. van der Reyden (PAC Centre for USA and Canada), Rosa Salnikova (PAC Centre for Eastern Europe and the CIS) accompanied by Olga Tolstikova, Su Pinhong (replacing Chen Li, PAC Centre for China), Annette Wallace (replacing Patricia Zephyrine, PAC Centre for Trinidad and Tobago), Johann Maree (PAC Centre for Southern Africa), and Masaki Nasu (PAC Centre for Asia). It was a very challenging occasion for me to introduce myself as the new PAC director and the right place to exchange ideas with directors of PAC regional centres on what problems they face and how they deal with them. Each Director presented a brief report on the main achievements of his centre. Marie-Thérèse Varlamoff, who was leaving on retirement on March 15th, presented a retrospective of her experience as Director of PAC. It is important to note that the co-organization of the event by P&C Section and PAC Core Activity allowed the presence of nearly all the PAC Directors as they are generally members of both the Section and Core activity. It would be interesting from a management point of view to have a regular mid-year event with the section in the future.

The annual meeting was scheduled in Seoul on August 22. Nearly every PAC Regional Director was present or represented.

Here are the main points discussed during the different meetings with AB and PAC Regional Directors: As new director I had to listen a lot to each Director but also to the main conclusions given by MTV at the end of her mandate.

The **new strategic plan** (2006-2008) has been proposed and approved (see annexes).

On the occasion of IFLA Conference in Seoul, Jean-Noel JEANNENEY President of **Bibliothèque nationale de France** has confirmed to Alex Byrne, President of IFLA, his attachment to IFLA activities and his wish, for BnF, to host PAC core activity and PAC regional centre to Europe. (see the letter in annex)

Points to be improved and topical issues:

**a) communication** between PAC focal centre and the regional centres. The international network has to be enhanced and boosted on two levels: a better **balanced geographical distribution** of the regional centres, some geographical zones being not represented (India , Middle East, etc.), some others being too huge (Asia, Africa). We need to have a clear list of the different countries already managed by each regional centre.

To improve **communication** inside some of the regional centre, it seems necessary to establish regional networks on the model of NAN in USA.

**b)** To study the **creation of new centres** (North African and Middle East locations are studied). During 2005, PAC Director, MTV, suggested the possibility for CMUL (Chiang Mai University Library, Thailand) to become a PAC regional centre, focusing on the preservation of palm-leaf material. Mme Pensuwan Nakhapreecha, Director of the Library, decided to explore further the overall requirements and preparedness for such a centre. For this project, CMUL has a special Advisor, Dr. M.R. Rujaya Abhakorn, member of the UNESCO Memory of the World program. (Sub committee of the Register). Dr Abhakorn attended IFLA PAC meetings in Oslo 2005. He was present as a guest speaker in Tokyo on the occasion of the satellite meeting, just before the IFLA General Conference in Seoul. CB had a meeting with Dr Abhakorn on the request of Ms Pensuwan Nakhapreecha to study what could be done. Dr Abhakorn was very hesitant on this decision. He asked for more time and study to go further. The main problem seems to be the financial one as a regional centre could not be financed by the core activity. Dr Abhakorn was in Paris in December 2006 for Unesco and visited CB at the BnF. But no new decision was taken.

**c)** **To have a clearer view of the different fields of excellence** for each centre. For the moment, only half of the centres have a clear specialization. Concerning this point, C. Baryla announced in Seoul that she would like very much to relaunch the activities of PAC regional centre for Europe, hosted, together with focal point, by BnF. She proposed for Europe to work on long term digital preservation and announced that an international symposium will be done on the subject in spring 2007 in Paris.

**d )** Concerning **the translations**, C.Baryla congratulated all the directors for the beautiful efforts made to translate IPN papers and IPI. She thanked all the directors who gave papers and articles.

**e) More efforts are needed in each centre to communicate to Paris the mailing lists for IPN distribution.**

## **B – ACTIVITIES**

### ***1. Publications and translations***

- IPN (International Preservation News) = PAC newsletter

IPN 38 published and distributed in May 2006. Print run 3000

IPN 39 published and distributed in October 2006. Print run 3000

IPN 40 published and distributed in December 2006. Print run 2000 (For scientific reasons, we had to publish it in colours. The price being higher, the number of issues has been reduced)

- IPI (International Preservation Issues):

Number 6: *IFLA Disaster Preparedness and Planning: a Brief Manual* .Published in 3 languages (French, English and Spanish) to be delivered on the occasion of the International Symposium organized in March in the BnF: this volume was and is a great success. It is now translated in many languages, thanks to colleagues from all around the world: Chinese, Japanese, Slovenian, Czech, Portuguese, etc. It has been delivered, on request, in many training sessions (Cuba, South Africa, Jamaica, etc.) all along 2006.

Number 7: *Proceedings of the International Symposium. The 3-D's of Preservation: disasters, displays, digital*. Due to financial reasons, these proceedings were not published on paper but just on line on IFLA website in December 2006. Colleagues who are interested in a paper distribution could print it locally.

Translations of IPN issues and IPI 6 have been done in French by Corine Koch (Paris) and in Spanish by Solange Hernandez (Caracas).

Special efforts were made by the Regional Centres to do translations in Japanese, Chinese and Russian.

## **2. Conferences and Meetings: organization and participation**

For the first two months of 2006, PAC was busy preparing Paris IFLA PAC mid year meetings and mainly the Symposium.

« The 3-D's of Preservation: Disasters, Displays, Digitization », International Symposium, Paris, 8-10th March 2006

Organized by the BnF in cooperation with IFLA PAC Core Activity and Section, the event was very successful. More than 150 professionals coming from 27 countries around the world attended three days of intense conferences. On this occasion, several meetings (PAC Directors, IFLA Section on Preservation and Conservation, and common meetings) allowed fruitful discussions and debates. I would like to give all my thanks to the Section on Preservation and Conservation, to Nancy Gwinn (Chair of the Section) to Per Cullhed (Secretary), and all the members I met in Paris.

Alex Byrne, President of IFLA, honoured us with his presence and so did Sjoerd Koopman, Coordinator for IFLA Professional Activities. Both were keen on greeting and thanking Marie-Thérèse before her retirement as PAC director.

Agnès Saal, Director General of the Bibliothèque nationale de France opened and closed the symposium, emphasizing the greatest value she attaches to the themes handled by the speakers. John McIlwaine, Professor Emeritus, University College London, was our Keynote Speaker as the author of International Preservation Issues n°6: « IFLA Disaster Preparedness and Planning, a Brief Manual ». Deanna Marcum, Associate Librarian for Library Services, Library of Congress, granted the audience with a special intervention.

The first morning was dedicated to « Disasters: The Difference between Planning and Experience ». **Marie-Thérèse Varlamoff**, as the moderator, led the discussions between five talented speakers. **Ximena Cruzat**, Director of the National Library of Chile presented the activities of the PAC Center she is in charge of. Per Cullhed, Director of the Cultural Heritage Library Group, Uppsala University Library, presented very actual cases and an analysis of disasters in Sweden. Sarah-Jane Jenner, Preservation Co-ordinator at the British Library gave a practical overview of the collection salvage and disaster preparedness operation that has been developed at the British Library over the last decade. Josiane Laurent presented the disaster plan implemented at the Bibliothèque nationale de France. Eventually, Randy Silverman, in a very lively and almost « Hollywoodian » communication, focused on damages caused by hurricane « Katrina » and introduced the new concept of a « National Disaster Response Protocol ».

After a technical visit led by Anne-Hélène Rigogne of the beautiful display « Torah, Bible, Coran », the second morning was devoted to « Displays: The Role of Preservation in Exhibition ». Nancy Gwinn, as the Chair of the Section on Preservation and Conservation, was a talented moderator introducing Jocelyne Deschaux, from Toulouse, who focused on preventive measures in exhibitions, Anne-Hélène Rigogne and Brigitte Leclerc from the BnF who talked about standards on preservation in the field of exhibitions, and **Dianne van der Reyden**, who presented the role of preservation in exhibitions at the Library of Congress.

The last morning, was the long-awaited session regarding digitization. As the moderator, Helen Shenton had to deal with four communications concerning the safeguard of digital heritage. Ingeborg Verheul (Koninklijke Bibliotheek) presented an overview about « Current Practice in 15 National Libraries ». Catherine Lupovici presented a survey of what is in progress at the Bibliothèque nationale de France. Hilde van Wijngaarden, Head of the Preservation Department, Koninklijke Bibliotheek, introduced the « Planets » project, a European proposal to build a preservation framework. Last but not the least, Laura Campbell, Chief Information Officer at the Library of Congress, introduced the National Digital Information Infrastructure and Preservation Program (NDIIPP) led by the Library of Congress.

Technical visits were very much appreciated. Guillaume Niziers, Head of the Technical Centre in Bussy-Saint-Georges, welcomed us and presented the treatment and digitization of newspapers and audiovisual material. Gérard Bailly, Director of the Technical Department let us visit the basement of the library to make us understand what was implemented to prevent the risk of floods (waterproof wall, disaster plan,...).

The proceedings of the symposium have been published as the « International Preservation Issues », n°7.

2006 International Newspaper Conference - "Newspapers of the World Online: U.S. and International Perspectives" 17-18 May 2006, University of Utah Campus, Salt Lake City, Utah, USA. C. Baryla attended for the first time the meeting of the Newspapers Section a day before the Conference. One of the points discussed was the joint project initialized in 2000 by PAC and the Newspapers Section about African Newspapers. A study was launched by PAC to know which African newspapers could be microfilmed and returned. See the goals and results of the research on: <http://www.ifla.org/VII/s39/pr1/Quest2JxAfrcMicr.htm>. At the meeting, the discussion was oriented on the new challenges Digital versus Microfilm for the African Project.

LIBER 35<sup>th</sup> Conference "Turning the Library inside out" Uppsala University Library, Sweden, 4-7 July 2006. C. Baryla gave a paper entitled "Flood prevention and protection at the Bibliothèque nationale de France" at the Session on Preservation, chaired by Helen Shelton. See: [www-conference.slu.se/LIBER/index.htm](http://www-conference.slu.se/LIBER/index.htm). The papers are published in LIBER Quarterly see: [www.liber.library.uu.nl/publish/issues/2006-3\\_4/issue\\_content.html](http://www.liber.library.uu.nl/publish/issues/2006-3_4/issue_content.html). This Conference was the beginning of a more extended collaboration between PAC and LIBER.

SAPCON CONFERENCE: Preservation on a shoe-string. William Humphreys Art Gallery, Kimberley. 25-28 July 2006. Presentation of IFLA PAC Core activities by C. Baryla. One of the Conference moderators was the very efficient Johann Maree, Regional Director for PAC in South Africa. On the occasion I met Dale Peters from Durban University, very efficient in the field of digitalization.

Pre-Conference to the 72<sup>nd</sup> IFLA General Conference and Council. Preservation and Conservation in Asia, Tokyo, Japan, National Diet Library, 16-17 August 2006. See: [www.ndl.go.jp/en/iflapac/preconference/index.html](http://www.ndl.go.jp/en/iflapac/preconference/index.html) .

It was the occasion to meet with the Asian PAC Directors (Colin Webb, Yukiko Saito and Masaki Nasu, PAC China being represented by the Director of International Affairs in National Library of China). The IFLA P&C Section was co sponsoring the meeting organized by the PAC regional Director Yukiko Saito. This Conference gave me the opportunity to present again PAC Activity and to discuss the feasibility of a prospective centre in Chang Mai with Dr Abhakorn. Then, it was also the place to realize that Korea had been working for several years with China and Japan in the field of Preservation and may be could be a future centre in the area. C. Baryla, presented the activities of the Paris office, detailing initiatives in Asia. Colin Webb, director of the IFLA/ PAC Regional Centre for Oceania and Southeast Asia and director of Preservation Services in National Library of Australia, gave a broadly based presentation on reformatting of documentary heritage. Yukiko Saito, new director of the IFLA-PAC Regional Centre for Asia at the

National Diet Library spoke particularly on preservation cooperation in Nepal, from training to conservation and digitization of rolled palm leaf manuscripts. Papers are accessible through: [www.ndl.go.jp/en/iflapac/preconference/program.html](http://www.ndl.go.jp/en/iflapac/preconference/program.html).

World Library and Information Congress: 72nd IFLA General Conference and Council Libraries: *Dynamic Engines for the Knowledge and Information Society*, 20-24 August 2006, Seoul, Korea.

An open session was shared with P&C IFLA Section. This session was based on a Call for Papers, a first for the P&C Section. Sarah Toulouse (France: P&C Section) and Susanne Schnuer (CPEWL Section) organized the speakers and the programme which proved to be highly interesting and well-attended, attracting over 150 participants. For the first part of the session, the traditional form of plenary lectures was used. An intensive session with speakers presented studies that aimed to define the extent and nature of preservation problems and demonstrate exemplary programmes used to raise awareness and educate stakeholders.

All papers are listed here and full text is available:

<http://www.ifla.org/IV/ifla72/Programme2006.htm#21August>

Prince Claus Fund International Conference, "*Culture is a Basic Need: Responding to Cultural Emergencies*", The Hague, 25 and 26 September 2006. This conference was held as a part of the Fund's Cultural Emergency Response (CER) program and the 'Here' campaign of the Dutch National Postal Code Lottery, to mark the tenth anniversary of the Prince Claus Fund in 2006. This conference was linked to an ICBS meeting in Den Hague. See: [www.princeclausfund.org/en/what\\_we\\_do/cer/index.shtml](http://www.princeclausfund.org/en/what_we_do/cer/index.shtml).

Fondazione Rinascimento Digitale International Conference 2006: "*Cultural Heritage on line: the challenge of accessibility and preservation*". Firenze, 14<sup>th</sup>-16<sup>th</sup> December 2006. One of the objectives of the conference was: to develop sustainable policies of preservation and open access with the main topic of digital preservation (technical and organisational issues). It was the main reason why I attended the conference but one topic was also very challenging for me: the prospect of cooperation among archives, libraries and museum. The conference was very interesting. On this occasion, I met Mauro Guerrini (AIB) in the perspective of Milano 2009.

### **3. Training participation**

TRAINING WORKSHOP in Namibia on preservation of photographs. *Preserving our pictorial heritage: photographs in African collections*, 3-7 April. 2006 Windhoek National Library and Archives.

Johannes C.N. Maree, University of Cape Town, South Africa and Ellen N.Namhila, Ministry of Basic Education, Sport and Culture, Namibia

ALP financed the workshop.

Out of 34 applications 17 persons were chosen to take part in the workshop. They represented the target group: Curators, archivists and librarians from Angola, Zimbabwe, Zambia, Botswana, Mauritius, Mozambique, Namibia, South Africa and Lesotho.

The PAC Activity was involved in the training as Johann Maree was the organizer. Johann selected the teachers and built the programme. The training was intense and very useful as all the attendees were persons in charge of photographs in their own country and eager to put what was taught into practice. On this occasion 2 n° of IPI were distributed: n° 5 (Care, Handling, and storage of photographs by M. Roosa) and n° 6 (IFLA Disaster Preparedness and Planning by J. McIlwaine).

C. Baryla attended the workshop. It was the occasion to meet Ellen Namhila, Director of the national Library and Archives in Namibia and member of PAC Advisory Board. On the occasion of the training, Ellen discussed the Preservation problems she is meeting with, in her library: with books but also, microfilms, magnetic tapes, newspapers, etc... She presented the beautiful program, "Archives of Anti-

Colonial Resistance and the Liberation Struggle” (AACRLS). This project presents several challenging issues from a preservation point of view.

It was the occasion to introduce IFLA and PAC to all the attendees and to announce the 2007 Conference in Durban. Many persons were very interested by the future event and IFLA actions.

#### **4. Meetings participation and visits**

##### Meetings:

IFLA Preservation and conservation section: mid year meeting in Paris (Friday 10 March 2006), Meetings in Seoul (22 August 2006).

IFLA Newspapers Section: mid-year meeting in Salt Lake City and standing committees in Seoul.

IFLA Governing board / with MT Varlamoff,, 15 march 2006, Den Hague, to be introduced to the Governing Board

##### Visits:

On the occasion of the SAPCON Conference in Kimberley Christiane BARYLA visited the **PAC Regional Centre in Cape Town**. Johann Maree presented the activities and the centre. On the occasion I also visited the National Library and had a meeting with Douwe Drijfhout concerning the 2007 Durban Conference and the possibilities of actions for PAC in South Africa.

On the occasion of the Pre Conference in Tokyo C. Baryla **visited the PAC Regional Centre for Asia** in The National Diet Library.

Meeting in Uppsala with **ALP Programme Director** Birgitta Sandell and Gunilla Natvig Administrative officer on 21-22 November 21-22 2006. This meeting was very helpful to understand better the core activities management. Birgitta Sandell has a large experience in the management of ALP (finances and programme) and we had a very fruitful meeting.

##### Visitors:

Peter Lor IFLA General Secretary came several times in Paris to follow PAC activities. Meetings were led together with Lucien Scotti, Director of Regional Affairs in BnF.

In March 2006 PAC regional Directors attended the Symposium and visited PAC offices: Johann Maree, Masaki Nasu, Annette Wallace, Ximena Cruzat, Dianne van der Reyden, Rosa Salnikova.

PAC Advisory Board: Réjean Savard, Susan Allen, Deanna Marcum, Nancy Gwinn .

IFLA Governing Board: Keith Michael Fiels

Preservation Specialists: Kwi Bok Lee Chief of Preservation and Conservation and Ms Seon Miung Soon Director for Public Services Division, Korean National Library, Seoul, came for a visit of BnF Preservation services and PAC Offices with several colleagues.

Jean Marie Arnoult, (Inspecteur général des bibliothèques) who established the PAC in 1993 is often asked for counseling.

#### **5. Mailing activity**

PAC Focal Point distributed **IPN** to the various Regional Centres:

**2000** copies sent with the PAC “Europe” mailing list mainly in Europe but also in North Africa and Middle East.

**4720** copies (58 packs) to the regional centres

1000 copies were distributed on the occasion of conferences, travels, and on request because of a special topic.

All this for 3 issues published in 2006.

**IPI 6 (Disaster Preparedness)** our “Best seller” was sent to the PAC regional centres, to IFLA Headquarters (20 copies), to the Blue Shield national committees (120) and to be distributed in several workshops (Jamaica, Namibia, South Africa, etc)

These figures do not include the different translations which have been made and disseminated locally (Japan, Chinese, Russian, etc)

Regularly we are asked for the CD made on Preventive Conservation and for IPI 5 dedicated to photographs.

I take the opportunity of this report to say that several updates could be made.

## **6. Strategic plan**

### Mission

The Core Activity on Preservation and Conservation has one major goal: to ensure that significant library and archive materials, published and unpublished, in all formats will be preserved in accessible form for as long as possible. The primary role of the PAC program is to raise awareness: to make information and heritage professionals, governments and the public conscious of the fundamental position occupied by preservation in the management of an institution.

Using its Regional Centers, PAC aims to have a presence worldwide. It will be assisted at national, regional and international levels by cooperation with other professional organizations, institutions and NGOs as well as with IFLA’s professional groups, chief among which is the Section on Preservation and Conservation.

The rapidly evolving digital technologies are presenting new challenges which will be included in the activities of the program. PAC’s major strategies include training, production and dissemination of information, research and participation in the development of new standards.

Considering the risks threatening the documentary heritage, PAC intends to intensify its important efforts in disaster preparedness and preventive measures.

### Goals

#### **1. Develop and re-organize the existing network of preservation professionals**

(Professional priorities: *(f) Promoting resource sharing; (g) Preserving our intellectual heritage; (h) Developing library professionals*)

#### **Actions**

1.1 Assist PAC Regional Centres in networking their activities:

- South Africa

- Asia

*Actors:* PAC Paris, PAC Cape Town, PAC Tokyo

*Agenda:* 2006

1.2 Evaluate PAC regional centres in the next two years

*Actors:* PAC Paris

*Agenda:* 2006-2007

1.3 Create additional PAC Centres or new partnerships within:

- North Africa: Mauritania, Morocco, Tunisia, Algeria, Libya (geographical area as determined by UNESCO)

- Middle East

*Actors:* PAC Paris

*Agenda:* 2007-2008

1.4 Investigate the need for specific PAC Centres in:

- Thailand

- India

*Actors:* PAC Paris

*Agenda:* 2008

**2. Raise awareness of preservation issues, train staff and technicians, produce and disseminate information, and encourage government officials, library managers and users to respect the documentary heritage**

(Professional priorities: (g) Preserving our intellectual heritage; (h) Developing library professionals)

**Actions**

2.1 Publish PAC newsletter “International Preservation News” and PAC collection “International Preservation Issues” with an increased number of translations.

*Actors:* PAC Paris, plus PAC Regional Centers

*Agenda:* IPN: three per year / IPI: one per year

2.2 Reorganize the distribution of IPN within the new PAC Centres, update and develop the existing mailing lists.

*Actors:* All PAC Centres

*Agenda:* 2006

2.3 Plan four workshops on:

- web archiving and digital resources

- maps

- film materials (negatives, microfilms, microfiches and slides)

- problems of preservation due to the climates

*Actors:* All PAC Centres

*Agenda:* 2006-2008

2.4 Plan an international symposium on electronic resources and web archiving

*Actors:* PAC Paris

*Agenda:* 1<sup>st</sup> Trimester 2007

2.5 Promote the development of disaster plans among national libraries.

*Actors:* PAC, Section PAC, Section on National Libraries, International Committee of the Blue Shield.

*Agenda:* 2006-2008

2.6 Promote preventive measures in developing countries (training, workshop).

*Actors:* PAC Paris, PAC Cape Town

*Agenda:* 2006-2008

### **3. Assess needs in preservation through surveys and promote the development of national and international standards, guidelines and best practice in the field of preservation**

(Professional priorities: (f) Promoting resource sharing ; (g) Preserving our intellectual heritage; (h) Developing library professionals; (i) Promoting standards, guidelines and best practice)

#### **Actions**

- 3.1 Updating IFLA PAC Brochure (Ed. 1994)  
*Actors:* PAC Paris + PAC Centres  
*Agenda:* 2006
- 3.2 Survey on the state of non-book material collections (microfilms, microfiches, audio and video tapes, maps...)  
*Actors:* PAC (Paris, Cape Town, Porto Novo), Africa Regional Section  
*Agenda:* establish a questionnaire and distribute it – 2<sup>nd</sup> semester 2006
- 3.3 Co-operate in the elaboration of an on-line *Bibliography of preservation: existing standards, guidelines, codes of best practice in preservation, in print or electronic form.*  
*Actors:* PAC, BnF, ENSSIB,  
*Agenda:* 2008
- 3.4 Promote the translation of *IFLA Disaster Preparedness and Planning – A brief Manuel* into Portuguese, Slovene, Italian, Greek, Arabian  
*Actors:* National Library of Portugal, University of Ljubljana, Università Ca' Foscari Venezia, Bank of Greece (Library Section), National Library and Archives of Cairo  
*Agenda:* 2006-2008
- 3.5 Translate the *IFLA Package on the Care, Handling and storage of Photographs (IPI 5)* into Russian and Japanese versions  
*Actors:* PAC Moscow, PAC Tokyo  
*Agenda:* 2006

### **4. Encourage scientific research on the causes of deterioration of library documents in all formats, including digital materials and promote reformatting as a preservation option.**

(Professional priorities: (b) Defending the principle of freedom of information; (f) Promoting resource sharing; (g) Preserving our intellectual heritage; (h) Developing library professionals)

#### **Actions**

- 4.1 Promote the use of permanent paper  
*Actors:* PAC, Section PAC  
*Agenda:* 2006-2008
- 4.2 Promote Integrated Pest Management  
*Actors:* PAC Caracas, PAC Tokyo, PAC Cape Town  
*Agenda:* 2006-2008
- 4.3 Examine current researches on web archiving and preservation of digital resources  
*Actors:* PAC Paris, PAC Canberra  
*Agenda:* 2006-2008

## **C – CO-OPERATION**

### ***Blue Shield***

PAC Director has been active in the international structure of the Blue Shield. Marie-Thérèse Varlamoff kept the Vice Presidency of French Blue Shield. So PAC Director is involved only in the ICBS meetings, which generally take place in the offices of ICA (International Council of Archives). As PAC is hosted in Paris it is often easier for CB to represent Peter Lor and Sjoerd Koopman when they are not able to attend the ICBS meetings.

CB attended 4 meetings in Paris and the Conference in Den Hague (linked with Prince Claus event): *Towards a solid organization: Infrastructure and Awareness. The challenge of an effective cooperation*, 27<sup>th</sup> and 28<sup>th</sup> of September 2006, National Archives and Royal Library.

### ***Unesco***

C. Baryla participates to the French Committee for the “Memory of the World” programme. The goal of the meeting is to select French proposals.

## **D – ACTIVITY REPORTS FROM PAC REGIONAL CENTRES** **(See detailed reports from PAC Regional Centers in annex)**

There was no PAC Director for Brasil in 2006. PAC Centre in Benin was not yet operational

### ***1. Publications***

Regional centres reported to have distributed *International Preservation News* n°37, 38 and 39 and *International Preservation Issues* n°6, which have been translated by several PAC Centres (China, Russia, Trinidad and Tobago). Unfortunately, due to problems with customs agents, the regional centre for Latin America and the Caribbean could not receive IPN n° 37 and 38. Several translations of IPN papers have been made by PAC Centres (Russia, Chile).

The PAC Centres for Japan and Russia also translated IPI n°5 “Care, handling and storage of Photographs”.

### ***2. Training***

A great number of workshops have been organized by Washington, Moscow, Tokyo, Caracas, South Africa, Chile (with the collaboration of Blue Shield), Port of Spain, about preservation techniques and disaster recovery. Training activities also include the hosting of interns (Port of Spain, Caracas) and the publication of training materials (Caracas, Chile, Tokyo).

### ***3. Raising awareness***

To raise awareness, Pac Directors presented papers (Ximena Cruzat, Dianne van der Reyden, at the Symposium held at Paris in April 2006), organized exhibitions (China), attended conferences and seminars, etc.

Tokyo organized a Pre-conference to the WLIC 2006 in August on the theme of preservation and conservation in Asia.

The Pac Centre for Chile prepared and distributed pamphlets on prevention of disasters (plan of emergency and prevention of fire, floods and earthquakes).

### ***4. Expertise and standards***

In 2006, China established six standards such as “Rare books Ranking Standards” and prepared the “Chinese Ancient Books Preservation Project”.

## **PART 2: ANNEXES**

### **REPORTS**

- 1) Australia
- 2) Chile
- 3) China
- 4) Japan
- 5) Russia
- 6) South Africa
- 7) Trinidad and Tobago
- 8) Venezuela
- 9) USA and Canada

### **DOCUMENT**

Letter from BnF President Jean-Noël Jeanneney to IFLA President Alex Byrne

## AUSTRALIA - Canberra



Mr Colin Webb  
Director IFLA PAC  
National Library of Australia

### IFLA PAC OCEANIA AND SOUTH EAST ASIA REGIONAL CENTRE SEMI-ANNUAL REPORT JANUARY – JUNE 2006

#### 1. Publications

- The Centre continued to distribute approximately 300 copies of each issue of *IPN* to its regional mailing list.
- Marian Hanley contributed an article entitled *PADI and the Dynamic World of Digital Preservation* on the PADI subject gateway to information on digital preservation, for the May 2006 edition of *IPN* (No. 38).

#### 2. Training

- The Centre has received a number of requests for assistance in preservation microfilming training, and has continued to supply copies of the 10-module training package in preservation microfilming (produced in 2003 by the National Library of Australia in conjunction with the State Library of South Australia). The package is available in an online form from <http://www.nla.gov.au/preserve/trainmat.html>.
- The NLA hosted a two-day Digital Libraries Innovations Forum in April 2006 to raise awareness of digital developments and tools for libraries.
- The NLA collaborates with other national institutions to provide basic preservation training and assistance to small organisations in Australia which hold nationally significant documentary heritage collections, through the Community Heritage Grants Scheme. A rapidly growing demand for digitisation assistance under the Scheme highlights a need to provide more training in digitisation and digital collection management.

#### 3. Raising awareness

- Currently, the National Library of Australia's main awareness raising activity is its involvement in the *Australian Partnership for Sustainable Repositories (APSR)* program, with a number of Australian universities, through which it has actively promoted good practices in digital preservation. (In late August-early September, the NLA will host an international APSR forum on Reliable Repositories in Canberra.) (Further information about APSR is at: <<http://www.apsr.edu.au/>>)

#### **4. Expertise and standardisation**

- The APSR collaboration is also used by the National Library as a vehicle for developing and adapting tools for digital preservation, including preservation metadata specifications (based on the PREMIS model – see <<http://www.apsr.edu.au/publications/presta/>>), and an automated obsolescence notification system (AONS). While these tools are primarily intended for use by APSR partners, they should have wide applicability.
- Members of the Council of Australian National, State and Territory Libraries (CASL) have agreed to collaborate on developing national benchmarks for preservation elements of loans and exhibitions programs. This agreement flows from experience in organising a major travelling exhibition, *Treasures of Australia's Great Libraries*. A member of NLA Preservation staff, Rowena Jameson, recently won a travelling fellowship to gather information on international approaches.

#### **5. Cooperation**

- The *National Plan for Australian Newspapers*, coordinated by the NLA in conjunction with all State and Territory Libraries, has successfully implemented the first year of a 5 year national plan to preserve at-risk newspaper titles, with significantly increased funding from the NLA.
- The NLA is participating in a newly established National Collections Preservation Committee aimed at streamlining preservation priorities and approaches in all of the national collecting institutions in Australia.
- Attempts to work collaboratively in the area of digital preservation are also being very actively explored through a number of forums in Australia, including the Heads of Collecting Institutions; the MAGDIR (Managing Australian Government Digital Information Resources) Working Group; and the Collections Council of Australia's proposed Digital Collections National Framework. These initiatives reflect a growing awareness that most institutions are inadequately equipped to manage digital collections, while the few who have been active are inadequately funded to sustain what is expected of them.

#### **6. Successes**

- In conjunction with the Internet Archive, the National Library successfully undertook a 'whole domain harvest' of Australian web publications in late 2005, and has spent much of the succeeding months analysing what was gathered. The Library is about to embark on a second harvest specified to capture 500 million files.
- An Australian Committee of the Blue Shield has been established, with input from the National Library and the IFLA PAC Regional Centre.

#### **7. Difficulties, challenges and issues of interest**

- Staffing remains a constraint on preservation activities, including IFLA PAC activities at the NLA, related to pressures on overall funding; the need for succession planning for an aging workforce; ongoing changes in staff; and poor access to training in some key areas.
- In late 2005 the Regional Centre undertook an informal regional survey of needs and priorities as a prelude to planning; however, the Centre has been unable to resource a proper analysis and response to the survey.

- The Regional Centre is keen to introduce an annual regional training initiative, but has been unable to allocate resources to organise it.
- Government has identified a long standing need to improve performance measures for preservation work in national collecting institutions. This should produce useful measures that may have wider applicability for organisations looking at the effectiveness of their preservation programs. (However, previous attempts at improvement suggest that it is difficult to find meaningful measures that can be harmonised across a range of collections.)
- Australian libraries are actively replacing deteriorating cellulose acetate microfilm, especially of newspapers, often with some funding assistance from the National Library. This has raised a dilemma of whether to discard acetate camera masters that are still in good condition, or to continue to store them.
- Despite good intentions, and the establishment of a local Blue Shield Committee, there remain serious deficiencies in the Regional Centre's mechanisms for responding usefully to regional disasters. This was highlighted by the South Asian tsunami on Boxing Day 2004, and reinforced during the past six months in response to the Yogyakarta earthquake in Indonesia.

#### **8. IFLA PAC-related priority activities for the next six months**

The priority IFLA PAC related activities for the Centre for the next 6 months include:

- i.* Increasing the allocation of staff time to IFLA PAC needs.
- ii.* Developing protocols within the National Library and within Australian government for more useful and timely responses to regional crises involving collection preservation needs.
- iii.* Improving tools for communication between the Regional Centre and other preservation programs in the region, and with other Regional Centres.
- iv.* Following up the 2005 survey of regional needs.
- v.* Discussing options for supporting digital collection management and preservation initiatives in the Pacific with partners including the Pacific Manuscripts Bureau.
- vi.* Pushing ahead with planning for national collaborative frameworks for digital preservation in Australia.

August 2006

## SEMI-ANNUAL REPORT

JULY – DECEMBER 2006

### 1. New arrangements at NLA

- Responsibility for the IFLA PAC Regional Centre has been transferred from Preservation Services Branch to a newly formed Web Archiving and Digital Preservation Branch within the National Library of Australia. The new branch is headed by Colin Webb, who remains Director of the IFLA PAC Regional Centre. The digital focus of the new branch offers an opportunity to play a stronger IFLA PAC role as a centre of excellence in digital archiving and preservation. The new branch will continue to work closely with Preservation Services Branch to maintain contact with developments in issues and techniques for preserving physical collections.

### 2. Publications

- Nothing to report

### 3. Training and awareness raising

- The Centre is in the early stages of developing a basic training course and package in the digitisation of collection materials, for community organisations and smaller collecting institutions. The aim of the project is to create course content, course notes and other training materials that would support short (eg two day) instruction courses in the use of amateur grade equipment and freely available software, to achieve a reasonable standard of digital copying suitable for web access and long term management of the digital copies. This is intended to be an accessible theoretical and practical training approach, taking advantage of the access and preservation potential of digitisation without requiring top of the scale equipment and software and deep technical expertise. The Centre intends running a pilot course for local community groups in Canberra in the first half of 2007; if successful, it aims to begin negotiations for delivery of the course to IFLA PAC regional partners in the following year.
- The NLA's Preservation Services Branch will host a preservation intern from Taiwan beginning in March 2007. This experience will be reviewed to see if it can be used as a model for an IFLA PAC training program that can be offered to regional partners.
- The Centre was involved with other Australian national institutions in providing basic preservation training and assistance to small organisations in Australia who received grants for 2006/2007 under the Community Heritage Grants Scheme. This scheme offers small scale funding to help community organisations preserve and improve access to their collections of significant documentary heritage materials.

### 4. Expertise and standardisation

- As previously reported, the National Library of Australia is involved in the *Australian Partnership for Sustainable Repositories (APSR)*, along with three Australian universities, aimed at developing and promoting good practices in digital preservation. In late August-early September, the NLA and APSR hosted an international forum in Canberra on Reliable Repositories. The forum was attended by around 100 participants, mostly from Australia, with

some representation from the USA and New Zealand. The forum discussed progress with preservation metadata and models for trusted digital repositories.

- Through the APSR collaboration, the National Library is currently working on three major projects likely to be of interest to IFLA PAC partners:
  - Development of a specification for bundling metadata and digital content for inclusion in a digital archive (NLA/APSR METS profile project);
  - Further development of a software tool to alert digital custodians that file formats in their care may be in danger of becoming obsolete (AONS Generic Extension project or AGE).
  - Development of a model for describing digital collections in a Collection Registry, so that federated collections can be managed and accessed efficiently.
- The National Library has funded a special two year in-house project to develop and implement practical workflows for long term management of digital collections currently at risk of loss. While the Library has good workflows in place for its web archive, PANDORA, many of its other collections of 'born digital' materials have been managed using stop gap, 'band-aid' solutions. The Digital Preservation Workflows Design Project will establish procedures that will bring these at risk collections into the main stream of digital collection management. Outcomes of the project will be reported to IFLA PAC partners for interest.
- The Centre is involved in a discussion with other Australian libraries of the conditions required to use digital copying as a preservation standard for newspapers. While reported in general terms at the IFLA PAC Satellite Meeting at the National Diet Library in Tokyo in August, discussion has progressed to include the needs of small libraries unwilling or unable to wait for a national digitisation program to be put in place. This is a major issue for the *National Plan for Australian Newspapers*, (a national program coordinated by the NLA in conjunction with all State and Territory Libraries to find, describe, preserve and facilitate access to all Australian newspapers.)

## 5. Cooperation

- The Council of Australian State and Territory Libraries (CASL), has recently changed its name to the National and State Libraries of Australasia (NSLA), including the National Library of New Zealand. The change will enhance preservation planning and cooperation between major libraries in the two countries. A proposal to form a Preservation Managers Working Group within NSLA was recently withdrawn, as it was considered an unnecessarily formal arrangement. Library preservation managers in the two countries will now seek to establish a more informal model for communication and mutual support.
- The National Library's Sound Preservation section played an active role in a recent conference of the South East Asia and Pacific Audiovisual Archive Association (SEAPAVAA) held in Canberra in November 2006.
- The Regional Centre was invited to provide input to a review of the New Zealand National Preservation Office.
- The Regional Centre held discussions with the National Library of New Zealand regarding their digital preservation project.

## **6. Difficulties, challenges and issues of interest**

- The National Library of Australia is about to conduct a review of the sustainability of the PADI subject gateway to information about digital preservation. The Library has hosted and maintained the PADI service since the mid-1990s, during which time it has established an international standing as one of the most useful places to find information and guidance about preserving digital collections. Resource pressures within the NLA have forced the Library to look closely at the sustainability of its current approach to maintaining PADI. If new approaches and/or partners cannot be found, the Library believes the PADI service may have to be closed down, which would reduce access to digital preservation guidance internationally.
- (The challenges and priorities highlighted in the June report remain relevant.)

January 2007

## CHILE – Santiago



Ms Ximena Cruzat Amunátegui  
Director IFLA PAC  
National Library of Chile

## REPORT OF THE ACTIVITIES IFLA PAC AND BLUE SHIELD YEAR 2006

Signature of the “Agreement Between IFLA PAC and National Library of Chile”, which has been renewed. Validation until the 31 of December of the present year. We used to send some brochures or articles both IFLA PAC countries (Argentina, Perú and Ecuador) and Blue Shield.

### 1.- PUBLICATIONS

#### IFLA PAC

- With the intention of spreading heritage safeguard in the field of the education, we have been prepared pamphlets on prevention of disasters, that incorporate:

- Plan of Emergency
- Prevention of fire Floods and earthquakes.

The different materials will be given in a bag, type pocket, that - under a transparent cover it takes a listing of the telephones of emergency and the personnel responsible in case for a catastrophic event.

- **March:** The translation of the document was made “ How to make a case in five minutes” (Article published in International Preservation News N°22-23 August-december 2000) and “Restoration of old covers by means of the use of Japanese paper: The example of the nose caps” (Article published in International Preservation News N° 30, 2003). These translations were sent to IFLA PAC for their publication.

#### BLUE SHIELD

- **March:** The Committee of Blue Shield of Chile, answered the “Questionnaire to Regional PAC centers to prepare the Directors' Meeting”, sent by IFLA PAC.
- **March and June:** They were dispatched to the directory of Blue Shield (around 160 people): the publications International Preservation News, N°38” and “IFLA Disaster Preparedness and Planning”.

Later we inform that the publications of Ifla, will be published virtually in <http://www.ifla.org/I/whatsnew/new.htm>

- **May:** It was sent (by email), to six museums and five regional coordinations of dependent Public Libraries of the Dibam (Direction of Libraries, Archives and Museums), plan of prevention. The material corresponded to an extract of the article “Prevention of disasters and plans of emergency. Compendium of the IFLA”, published in the magazine Ifla N° 6.
- **September:** We sent to our directory of Blue Shield (160 people approx), information on “Records of published emergencies” published in the [www.cnrcr.cl](http://www.cnrcr.cl) site (National Center of Conservation and Restoration of Chile).

## 2.- PARTICIPATION IN NATIONAL AND INTERNATIONAL SEMINARIES OR CONFERENCES THAT HAS SOMETHING TODAY WITH IFLA PAC OR BLUE SHIELD

### IFLA PAC

- **March:** Ximena Cruzat was invited to expose in the “Symposium of Preservation”, Co organized by IFLA PAC Core Activity and Section on Preservation and Conservation) in the National Library of France”.
- **August:** Ximena Cruzat participated in 72° World-wide Congress of Libraries and General Information of the dedicated IFLA “to the Libraries: Dynamic motors of the Society of the Knowledge and the Information”, made in center of Exhibitions and Congresses (COEX), of the city of Seoul-Korea. In this conference she attended to the IFLA PAC activities in relation with IFLA PAC Center and Chilean Blue Shield.

### BLUE SHIELD

- **August:** Seminary “16 of August of 1906 in Valparaiso: 100 years of the earthquake that transformed Valparaiso”. In this seminary was presented the protection of the cultural property by the Blue Shield.
- **November:** The Committee of Blue Shield participated in the Seminary “Plans of emergency of museums in the MERCOSUR”, call and organized by ICOM-Chile and Subdirection of Museums of the Dibam.



The Committee of the Blue Shield presented two papers:

1. The Blue Shield in Chile and
2. Educative Records for the prevention of patrimonial disasters.

- **December:** The Committee of Blue Shield was represented by one of its members in the seminary “Alert Plan for Archives”, was made in Valparaiso, to comment the guidelines to elaborate emergency plans there.

### 3.- PRESS

#### BLUE SHIELD

- **August:** Contact with El Mercurio, major Chilean newspaper, to make an article on Blue Shield and technical aspects related to the care of the heritage in the National Library of Chile.
- **October:** Interview in Cooperativa Radio, Program “Cultural Patrimony”, on Digital Policy. Ximena Cruzat was interviewed by 30 minutes.

### 4.- WORK OF DIFFUSION AND CONSULTANT'S OFFICE TO THE MUNICIPALITY OF VALPARAISO

#### BLUE SHIELD

- Agreement of meeting of the National Committee with the Major of Valparaiso, at the beginning of 2007, to offer its consultant's office for the care of the heritage of the city.
- **November:** The Faculty of Philosophy and Humanities of the University of Chile, suffered burns it of near 1,200 books pertaining to the collection of the library of this Faculty. In that

occasion, the Committee of Blue Shield of Chile, offered the support of two members of this committee, to advise in the subjects conservation and restoration.

## **5.- PHOTOGRAPHIC INVENTORY OF THE NATIONAL LIBRARY OF CHILE**

### **IFLA PAC**

With the intention of advancing in the fulfillment of the recommendations of the Plans of Emergency, the National Library is photographing and creating a photographic cadastre of the dependencies of the building thus to be able to count on a registry of its present state.

<http://egroupware.bndechile.cl/copermine/> (site in construction)

## **6.- PLANS OF EMERGENCY AND ENTAILMENT WITH COMMITTEE PARITARIO**

### **BLUE SHIELD**

In Chilean the public and private institutions exist the Paritario Committee, created by law N° 16,744, to guard the security and well-being of the workers. In the case of the DIBAM, the buildings and properties inherited are included in addition. In addition, through internal annual projects, the Paritarios Committees obtain elements of security for the building.

-A policy of the Paritarios Committees of each building of the DIBAM stimulate the development and implementation of emergency plans.

- 1.- In 2006, the Paritario Committee of the National Library of Chile, collaborator of the Committee Blue Shield, made periodic inspection of the building, with the objective to inform about the situations that can be constituted in risks.
- 2.- The Paritario Committee of the National Library of Chile with the collaboration of the advisor institution (INP) programmed and made courses so that the personnel of the institution knew the dangers and could collaborate at moments of disasters.

The last courses distributed in relation to the security have been:

- Plan of emergency: Roll of the brigadista,
- Use handling and practice of use of extinguishers and
- First aid

- 3.- During 2006 new plans of evacuation in the buildings of the Direction of Libraries, Archives and Museums have taken place:

1. The Museum of fine Arts with the attendance of the Paritario Committee and
2. Students of the school of Engineering in Prevention of Risks and the National Library.

4. - Through its Paritario Committee, the National Library of Chile has incorporated like habitual activity the accomplishment of evacuation manoeuvres once a year.

For it, the past 7 of December at 10:10 hrs, took place the exercise of Manoeuvres that counted on the presence of users, civil employees, directors and personnel of security (without any announcement).

The response time (Total evacuation) was 7 minutes, 29 seconds. Emphasizing that this manoeuvres were made without warning the occupants.

Emitted report is enclosed which still cannot be published (to see annexed document in Spanish).

## **7.- TRAINING**

### **BLUE SHIELD**

- 1.- Agreement with the National Office of Emergency (ONEMI)
- 2.- Participation of two civil employees of the Direction of Libraries Archives and Museums in the course "Program Professional Formation in Civil defense", which knows a clearly preventive approach and is oriented to the development of capacities and skills of operative coordination for handling of emergencies and disasters.
- 3.- A document is being elaborated that was distributed in Chile, Argentina, Peru and Ecuador.

## **8.- FORTIFICATION OF ALLIANCES WITH AMERICAN COUNTRIES**

### **IFLA PAC**

- **October:** In the meeting summit of Abinia, Ximena Cruzat reaffirmed contact with the Library of Ecuador (Mr. Cléver Lara, Bibliotecólogo) and National Library of Argentina (Mr. Horacio González, Director).
- **October:** Within the framework of the Fair the International of Book of Santiago, the Director of the National Library of Chile, meeting with the Director of the National Library of Peru, Mr. Hugo Neira and the Lic. Irma Lopez de Castilla, Technical Director of the BN of Perú. The occasion took advantage strength links with this country.
- **December:** Within the framework of the Second Encounter of National Libraries of the Mercosur and Asociados, made in the National Library of Argentina, Ximena Cruzat fortified links with Mrs. Susana Pujol, Female leader of the Dpto. of Preservation, Conservation and Restoration of the National Library of Argentina and also Mr. Horacio González, Director National Library of Argentina.

Information of IFLA PAC and Blue Shield sent from Paris was sent to them and it was asked for in addition that made us arrive electronic mails from people who its respective countries, that are tie with the subject of the preservation and documentary conservation.

## CHINA - Beijing



Mr Chen Li  
Director IFLA PAC  
National Library of China

### IFLA-PAC CHINA CENTER ANNUAL REPORT - 2006

According to the IFLA-PAC's objectives and missions, China Center planed some projects and did some work related to the preservation and conservation, such as strengthening the publicity of documents preservation and raising awareness of the public on it, lobbying to the government to increase funding support, carrying out international cooperation, establishing the standards and criterions on the preservation and conservation, translating the relevant professions articles, and so on.

#### **1 to strengthen the publicity of documents preservation**

“Bastions of Civilization”—The Exhibition of the Ancient Books & Special Collections and Their Conservation was held by the National Library of China (NLC) in May 2006. It is the largest exhibition of rare books and its conservation in the history of China, in which 14 public libraries, universities libraries and research libraries were involved. 218 items of treasures and some treasures from other libraries were exhibited, Nearly 60% of the exhibitions were classified as national top-grade cultural relics and others were second-grade, among them, 61 pieces of national treasures was first showed. In order to raise the awareness of the public on the preservation and conservation, the NLC provided 100 pieces of damaged Dunhuang Manuscripts and called on the public to sponsor the conservation. Because of the passion of the public, the manuscripts were claimed in one week.

#### **2 to plan the “Chinese Ancient Books Preservation Project”**

The China center pushed forward the preparation of the “Chinese Ancient Books Preservation Project” and lobbied the central government and the governments of different levels to increase the investment on the preservation and conservation. In the year of 2006, the China Center invited the experts nationwide in this field to draft the relevant standards and policies for the Project, and established the guidelines and overall goals, which settled the basis for the start up and implementation of the Project.

#### **3 to establish the standards and criterions in this field**

In order to speed up the standardization process of preservation and conservation, the China Center organized many famous scholars and experts and devoted to the establishment of the relevant standards on the preservation and conservation. In the year of 2006, six standards have been established, such as “Rare Books Ranking Standards”, “Ancient Books Stack Standards”, “Ancient Books Conservation: Quality and Technology Standards”, “Ancient Books Damage Ranking Standards”, “Ancient Books

Survey Standards”, “Library Conservators Qualifications”, among which 5 of them were issued by the ministries.

#### **4 to carry out international cooperation**

The China Center co-hosted the “Conference of Preservation and Conservation of the Papers in East Asia” with other research institutions. More than 400 experts, technicians, officials from Korea, Japan and China attended this conference. This conference focused on the preservation and conservation of the paper documents, preservation and conservation achievements in different countries and the training on P&C staff, and the cooperation among East Asian countries. Besides, the preservation and conservation achievements of Korea, Japan and China were showed during the conference.

#### **5 to research on the rare books conservation equipments and technology**

Paper Pulp Repair Machine is becoming all-pervading used in conservational over the world. The research and application of this machine will be a great help to improve the efficiency and quality of conservation. Upon the request of the National Archives of Mauritius and many libraries in China, the technical staff spent on year on the development of new pattern machine. The new machine is made of stainless steel and the key components used the international-famous brand products. The new machine also mended the shortages of the old pattern, which greatly improved the security, automation, conservation quality and efficiency.

#### **6 to promote the training to the conservators**

China center planed to organize nationwide training courses on rare books preservation and conservation. Meanwhile, China center cooperated with the research institutions to send experts to train the management staff of the Chinese traditional medicine. Besides, China center attracted many colleague both at home an abroad to study conservation techniques.

#### **7 to translate the professional articles from the IFLA-PAC**

China Center translated the “IFLA Disaster Preparedness and Planning-A Brief Manual” into Chinese. After that the Chinese version of this manual was printed and distributed in China. Besides, the Chinese version was handed in to the website of IFLA-PAC.



Ms Yukiko Saito  
Director IFLA PAC  
National Diet Library

### REPORT ON ACTIVITIES OF THE IFLA/PAC REGIONAL CENTRE FOR ASIA JANUARY TO DECEMBER 2006

The IFLA/PAC Regional Centre for Asia (PAC Tokyo) has continued to develop the preservation network in Asia and strengthen regional cooperation.

Following two meetings in December, 2005 – an open seminar on the damage caused by the Indian Ocean Tsunami and a meeting of directors of the PAC Regional Centres in Asia, PAC Tokyo organized the pre-conference of WLIC 2006 in Tokyo. Inviting speakers distinguished for their long-standing preservation/conservation activities in Asia, various preservation issues in the region were presented and discussed.

Based on IFLA/PAC Strategic Plan 2006-2008, PAC Tokyo made a draft of Action Plan 2006-2008 for IFLA/PAC Regional Centres in Asia.

The following is what NDL and PAC Tokyo carried out from January to December 2006.

#### **1. Publications**

##### **(1) Publications**

NDL translated “Care, Handling, and Storage of Photographs” (*IPI*, no.5) into Japanese, which was published by the Japan Library Association in April and distributed widely among Japanese libraries.

In September, NDL published in Japanese “The Documentary Heritage Damaged by the Indian Ocean Tsunami: Proceedings of the National Diet Library Open Seminar in 2005” (*NDL Library Science Series* No.39). The online version is available from the NDL website. English full papers have been uploaded on the website of the PAC Tokyo.

##### **(2) Distribution of IFLA/PAC publications**

PAC Tokyo distributed the following IFLA/PAC publications to the libraries and institutions of the area concerned:

International Preservation News, No.37~39

International Preservation Issues, No.6

##### **(3) Contribution**

At our request, Naoko Takagi, Yoriko Chudo and Reiko Maeda, founders of Paper Conservators Asia Unlimited (PCAU) contributed an article titled “Report on the project of digitization and conservation of rolled palm leaf manuscripts and related activities in Nepal” to IPN No.38.

PAC Tokyo contributed a brief report of the IFLA pre-conference “Preservation and Conservation in Asia”.

#### **(4) Update of the mailing list**

PAC Tokyo sent a questionnaire to the overseas libraries and institutions to confirm their need for PAC publications and update the mailing list for distributing them. The updated mailing list will be uploaded onto the website of PAC Tokyo later.

## **2. Training**

### **(1) The 10<sup>th</sup> Preservation and Conservation Training Program**

NDL held two one-day training programs in October in the NDL Kansai-kan (Kyoto). The program aimed to provide Japanese librarians with basic theory of preservation and elementary techniques for mending deteriorated materials. In all, 34 librarians participated during the two days.

### **(2) E-learning**

NDL developed an e-learning system for library staff members mainly in Japan and started an online training course on preservation and conservation in June. This e-learning is expected to complement the Preservation and Conservation Training Program held yearly in the NDL. Soon, the number of applicants far exceeded the limit. Participants in the first term (June to September) were finally 181 librarians (43 from public libraries, 103 from academic libraries, 15 from special libraries, and 20 from other types of libraries). The second term started in November.

### **(3) Dispatch of lecturers**

Staff members of the Preservation Division have, by request, delivered lectures and technical assistance on preservation/conservation to Japanese libraries. This year in March, Mr. Shigeru Otake lectured at Rikkyo University Library.

## **3. Raising awareness**

### **(1) The 13<sup>th</sup> CONSAL Conference**

Hiroshi Sakamoto, Department Director of the Collections Department, NDL Kansai-kan, presented a paper in place of the Director of PAC Tokyo at the session on Preservation and Conservation and Copyright of the thirteenth Congress of Southeast Asian Librarians (CONSAL) Conference held in Manila on March 25-30, on the theme: CONSAL at the Crossroads: Challenges for greater regional cooperation. The title of the paper was “Preservation needs in Southeast Asia and the IFLA/PAC Regional Centre for Asia”.

### **(2) International Symposium: Practice of Conservation in Museums**

An international symposium, Practice of Conservation in Museums defining a vision for the practice of conservation in museums in the 21st century was held on June 2. Last year in late December, the Ministry of Education, Culture, Sports, Science and Technology decided that two independent administrative institutions, the National Museum and the National Research Institute for Cultural Properties, should be integrated in April 2007. The decision was made mainly because of deficit financing and administrative reform. Under the circumstances, the Tokyo National Museum organized this symposium to advocate conservation activities of great significance and promote further cooperation among museums, art museums, libraries, etc.

Masakazu Kuba from the NDL spoke on the present state and future prospects of the preservation and conservation activities of NDL and PAC Tokyo.

## **(2) WLIC 2006 Seoul**

### **Pre-conference**

The pre-conference was held on August 16-17 at NDL under the theme of Preservation and Conservation in Asia. The meeting was sponsored by IFLA Preservation and Conservation Section, Asia and Oceania Section, IFLA/PAC Core Activity and NDL. There were 397 participants in total. The first session "Preservation issues in Asia" was opened on the 16th with a speech of welcome by Nancy Gwinn, Chair of the Preservation and Conservation Section. Prominent experts such as John Dean from the U.S., Rujaya Abhakorn from Thailand and O.P. Agrawal from India presented problems and prospects of preservation activities in Southeast and South Asia. Yukiko Saito, Director of PAC Tokyo, also presented the preservation cooperation activities in Nepal. The theme of the second session was "Microfilming and digitization of documentary heritage in Asia". Christiane Baryla, Director of PAC Paris, introduced IFLA/PAC Core Activities. Then Li Chunming of the National Library of China and Colin Webb, Director of PAC Canberra, reported on the current status and future prospect of microfilming and digitizing in each country.

English full papers are available from the website of PAC Tokyo.

### **Exhibition**

NDL enrolled in the exhibition at the WLIC venue in Seoul.

At the NDL booth, preservation activities as well as digital library services were demonstrated. To promote preservation awareness, we prepared three panels- 'Japanese traditional mending method', 'phased preservation' and 'use of acid-free paper'. Conservation instruments such as brushes, Japanese papers and phased boxes were also displayed.

## **(3) The Library Fair & Forum 2006**

The Library Fair & Forum is a very big event in the library world in Japan. We made panels and a pamphlet of our preservation activities and distributed them to raise awareness of preservation issues in the Library Fair & Forum 2006 held in November 20-22.

## **4. Expertise and standardization**

Masakazu Kuba, Assistant Director of the Preservation Division, NDL, visited the University of Maryland (UM) Libraries in February. He provided the staff with technical assistance for digitizing over 8,000 volumes of the Gordon W. Prange Collection of Japanese children's books as a collaborative project between NDL and UM Libraries. The project started this summer.

Kiyonobu Isaka, Director of the Preservation Division, made a trip to Nepal in November. He visited Nepal National Library, National Archives, Asa Archives and other related institutions to review the effects of the training program carried out by PAC Tokyo for Nepal in 2003 and 2004. He also gave advice to the staff members of these institutions.

## **5. Cooperation**

### **(1) The 4<sup>th</sup> Social Meeting for Experts in Preservation**

Yearly, NDL holds social meetings for preservation experts from libraries and other institutions. These meetings promote preservation activities in Japan by exchanging information and sharing knowledge and experience. The fourth meeting, on the theme of condition survey of library collections, was held in January.

### **(2) Blue shield**

Japan signed the Hague Convention on the Protection of Cultural Property in the Event of Armed Conflict in 1954, but has not ratified it yet. The Japanese government is planning to adopt the

1954 Hague Convention and its Protocols during the regular Diet session next year. Awaiting the adoption, we will publish through the Japan Library Association “A Blue Shield for the Protection of our Endangered Cultural Heritage” (IPI No.4) with the 1954 Hague Convention and its Protocols in Japanese.

## **6. The field of excellence**

### **(1) Condition survey on library collections**

In order to determine the nature and scope of the preservation needs of a particular collection, NDL conducted a condition survey in FY2005-2006. This survey focused on the paper and binding of Japanese book collections published between the 1950s and the 1990s. The result of a random sampling of 400 items from the 1950s-60s was reported at the poster session of the 28th Conference of Japan Society for the Conservation of Cultural Property in June.

The report of the survey will be published early in 2007.

### **(2) Storage Environment**

For integrated pest management (IPM), we took the following approach: we monitored the storages regularly and recorded the presence of insects and pests, set sticky traps, invited a specialist to give a lecture to the staff members, and made a manual for treating infested materials and preventing infestation.

In cooperation with both the Rare Books and Old Materials Division and the Modern Japanese Political Documents Division, we have monitored more closely their storages since October 2006. We will continue for another year.

We have installed data loggers to monitor the relative humidity and temperature in the storage for rare and older materials since FY2005. Recently we examined the records of humidity and temperature of all the storages in the Tokyo main building and exchanged information with the Facilities Management Division.

We have been gradually replacing fluorescent lights with new ones covered with UV filtering sleeves.

### **(3) Disaster Plans**

In June, NDL revised the disaster plan on fire and earthquake of the Tokyo main buildings. The new disaster plan includes how to protect library collections at risk as well as human life and facilities. We are preparing disaster measures for library collections step by step. We made a manual on salvaging materials from water leakage and purchased emergency equipment. Inviting an expert, we held a workshop on treating water-damaged materials in December and tested our manual.

### **(4) Hearings from specialists**

In order to improve their knowledge and skills, the Preservation Division has held yearly hearings from specialists on preservation issues. This year, hearings were held on the following themes: stability of the toner in terms of preserving reproductions; preservation administration; and paper conservation education.

## **7. Others**

### **(1) Research on preservation of digital information**

NDL published “The Long-term Accessibility of Packaged Digital Publications” (NDL Research Report, No.6) in Japanese and English. This is a summary of studies conducted in FY 2003 and 2004. The Japanese version is available on the NDL website. The survey of FY2003 showed that all 50 sampled music CDs, acquired between 1982 and 1991, could be played on the newest

players. However, of 200 samples FD and CD-ROM acquired up to 1999, almost 70% could hardly be read on PCs with the latest operating systems. The result of the next year's survey on the CD-ROMs acquired up to 1999 was also shocking. It showed that the emulation software used in this survey was valid for only about 30% of 100 samples. Migration, using the program on the market, could be done on over 350 samples without major problems. At this point, migration seems more effective than emulation. However, the long-term availability of the migration program is uncertain.

In September, NDL started another five-year research plan on long-term accessibility of digital information. The results of these studies will be utilized for developing an NDL digital archiving system which will run in 2009.

## **(2) Preservation reformatting**

In March, the Preservation Division made the next three-year plan, covering FY2006-2008, for preservation microfilming of the library collections. Preservation microfilming of pre-war Japanese books will finish by the end of FY2008.

In November, the Digital Information Planning Office also made a three-year plan, covering FY2006-2008, for digitizing our collections. An integrated preservation reformatting plan will be considered from FY2009 onward.

## RUSSIA – Moscow



Ms Rosa Salnikova  
Director IFLA PAC  
Library for Foreign Literature

### IFLA/PAC REGIONAL CENTER FOR EASTERN EUROPE AND CIS ANNUAL REPORT 2006

#### 1. Publications

- Distribution of IPN (№№ 36, 37, 38) with Russian fliers (I.e. resume translated into Russian) to 77 addresses in Russia, to 45 addresses in CIS, to 36 addresses in Europe (158 copies in total)
- Publication of the Russian version of the manual “IFLA Disaster Preparedness and Planning”, (500 copies)
- Publication of the Russian version of the manual “Care, Handling and Storage of Photographs”, (500 copies)
- Publication of five articles in scientific collective works about documents’ conservation and restoration

#### 2. Training, probation, exchange programs

- training at VGBIL for the restorer from the Museum “Kulikovo Pole” (April, 2006)
- training at VGBIL for students of Suzdal Art-Restoration College on theme “Basic technology for documents’ restoration” ( June, September, 2006)
- master class “Basis for restoration of oriental ”, 25 participants (Saint-Petersburg, October, 2006)
- training at VGBIL for students of the Moscow Polygraphic College (May, 2006)
- training at VGBIL for students of the retraining courses “Management in preservation of the library materials” (main damages of binding, art design for binding, restoration and binding materials, book-cover) (participants from Moscow, Chelyabinsk, Syktyvkar, Yakutiya, Tver, Penza, Belgorod, Uljanovsk, Yaroslavl) (November, 2006)

- training at VGBIL for students of the Russian State Humanitarian University (February-March, October-November, 2006)
- training at VGBIL for restorer from the A. Bakhrushin Central Theatrical Museum (March, November 2006)
- training at VGBIL for restorers-bookbinders from the Russian National Public Library for Science and Technology, Moscow (December, 2006)
- training at VGBIL for restorers from the Conservation Center of the Tomsk University (December, 2006)
- probation at VGBIL for the Director of Conservation Center from Kazakhstan (September, 2006)
- probation at VGBIL for the Deputy Director of the Central City Library of Nizhnevartovsk (November, 2006)
- visit to VGBIL of Mr. Chris Woods, Head of Conservation and Collection Care, The Bodleian Library, Oxford, UK, (21-26 September, 2006) and organizing a Round Table for Russian specialists in conservation and restoration for the exchange of professional experience

### **3. Raising awareness ( participation in conferences, seminars, etc)**

- participation in the Round Table on preservation and access of newspapers (February, 2006)
- participation in the Meeting of Directors of IFLA/PAC Regional Centers (France, Paris, March, 2006) and during WLIC 2006 (Seoul, Korea, August, 2006)
- participation in the seminar “Museum Libraries in Modern World” (April, 2006)
- participation in the Annual Conference of Russian Library Association in Ekaterinburg (May, 2006)
- participation (2 restorers) in the work of examining board for passing-out examination (Suzdal Restoration Institute) (May, 2006)
- participation in the 5<sup>th</sup> International conference “Ensuring preservation for cultural monuments: traditional approaches – nontraditional solutions” (Moscow, October, 2006)
- participation in the exhibition “Restoration of museum valuables” (Moscow, December, 2006)
- distribution of video films (*Into the Future, If Disaster Strikes, Handling Printing Books, Controlling your Library Environment, Minor Repair*) for restorers’ training in 87 regional libraries in Russia (during the year)
- distribution of the database “Preservation” designed by IFLA Regional Center (Moscow) for testing libraries’ collections physical condition (during the year)
- participation in the meetings organized by the Council of restorers from Kremlin Museums, State Tretyakov Gallery, State Archives (during the year)

- participation in the work of Russian Preservation Program (microfilming and scanning documents, newspapers, i.e. hybrid technology) (during the year)
- daily consultations on different aspects of preservation and conservation for regions (during the year)
- making video film “Minor Repair and the Book Restoration: Manual for Librarians”

## SOUTH AFRICA – Cape Town



Mr Johann C.N. Maree  
Director IFLA PAC  
University of Cape Town Libraries

### ANNUAL REPORT 2005-2006

#### REGIONAL PAC CENTRE FOR SOUTHERN AFRICA

Johann Maree did not attend the PAC Directors' meeting in Seoul during the annual IFLA Conference.

**PUBLICATIONS:** We have received current issues of "International Preservation News" during the past year. These were distributed to a wide range of institutions and colleagues working in the cultural heritage and preservation field. The purpose of the exercise was to introduce colleagues to an excellent publication that contains so much information on current preservation issues and events. CD-Roms were also distributed and welcomed by participants at training sessions and workshops.

**VISIT:** PAC Director Christiane Baryla, visited the Regional Centre in Cape Town at the end of July, after the SAPCON Kimberley Conference where she was the keynote speaker. We thank her for her interest and the valuable discussions on future projects.

**ADDRESS LIST:** Good progress has been made to update the list in South Africa. I hope to have an updated version of the list prepared for December 2007.

**PARTNERSHIPS/COOPERATION:** The Cape Town PAC Centre believes in cooperation. We have during the past year strengthened our ties with The National Library (Cape Town campus), The South African Preservation Group, The South African Museum Association. Forming partnerships with institutions and colleagues are very important and will hopefully contribute to the success of the Regional Centre

**TRAINING:** The Centre has had a very successful year with excellent training opportunities. A wide variety of courses were presented: (the following since the last report)

Disaster planning and IPM programme for South African Preservation Group.

Disaster planning and IPM programme for Iziko museums Cape Town

Mounting and framing of oversized works of art on paper for national Sapcon members

Introduction to paper conservation- a 10 day course for The National Archives in Pretoria

We would like to thank Ms.Christiane Baryla and her staff for their unfailing support during the past year for our Centre. We are looking forward to the next year and your continued interest and support in our activities.

2 January 2007

## TRINIDAD & TOBAGO – Port of Spain



Mrs Annette Wallace  
Director IFLA PAC  
National Library and Information  
System Authority (NALIS)

## NATIONAL LIBRARY AND INFORMATION SYSTEM AUTHORITY



## IFLA/PAC ANNUAL REPORT 2006 TRINIDAD AND TOBAGO

BY  
ANNETTE WALLACE  
EXECUTIVE DIRECTOR

A major function of the National Library and Information System Authority (NALIS) is the preservation of the national heritage information of Trinidad and Tobago. NALIS began to effect the recommendations of its Preservation Assessment Study which was conducted in 2004 by Randy Silverman of the Marriot Library, University of Utah.

### PEST CONTROL



*Wei To Freezer*

A *Wei To Freezer* for pest control to replace the old method of fumigation was shipped. The Freezer will also assist in drying of books in event of a natural disaster.

### **DISASTER PREPAREDNESS**

One of the regional libraries in the South of the country, Carnegie Free Library, lost part of its collection through the burst of a pipe in a water cooler. This impressed on staff the importance of a Disaster Preparedness Plan. All libraries have since completed Disaster Preparedness and Recovery Plans.



*Disaster at Carnegie Free Library  
Water Damage to Collection*

An Information Technology Infrastructure Contingency Plan was prepared. The Plan establishes procedures to recover NALIS information following a disruption. It is intended to maximize the effectiveness of contingency operations by outlining procedures for different phases in the disaster recover process.

### **IFLA/PAC DIRECTORS' MEETING**

NALIS benefited from the attendance of the Deputy Executive Director, Mrs. Annette Wallace at the IFLA/PAC Directors Meeting in Paris in March 2006. Invaluable information was received to supplement our Disaster Preparedness Plans. For example, the manual, *'Mise en place d'un plan*

*d'urgence pour le sauvetage des collections en cas de sinistre'*, was translated and will serve as a guide in the event of natural disasters.

An Exhibition Policy was developed for the organization utilizing information collected from the sessions on exhibitions.

### **SCHOLARSHIPS**

To augment its expertise in the field of preservation and conservation, NALIS obtained two (2) scholarships to study Preservation and Conservation at North American Universities. One of the awardees is at present studying at the University of Texas.

### **DIGITIZATION**

Thirteen thousand, five hundred and forty-one (13,541) pages from our information files were digitized. Some of these images can be viewed on our website, [www.nalis.gov.tt](http://www.nalis.gov.tt). Twelve Thousand, Four Hundred and Fifty-five (12,455) items were digitized from five (5) special collections.



*Special Collection*  
*Wayne Berkeley*

A workshop on digitization was conducted for library staff in Barbados by the Director of Information Networks Division. We are planning to host a workshop for regional librarians on Digitization in the new year.

NALIS has continued the distribution of the *International Preservation News* to Caribbean countries.

The Executive Director, Mrs. Patricia Zephyrine retired in May 2006 and she was succeeded by Mrs. Annette Wallace who attended the IFLA/PAC Meeting at IFLA 2006 in Seoul, South Korea.

December 2006

## VENEZUELA – Caracas



Ms Orietta Palenzuela Ruiz  
Director IFLA PAC  
Biblioteca nacional de Venezuela

National Library of Venezuela  
Library Technical Services  
National Documentary Preservation Center  
IFLA/PAC Regional Center for Latin America and the Caribbean



### NATIONAL DOCUMENTARY PRESERVATION CENTER ANNUAL REPORT - JANUARY-DECEMBER 2006

### IFLA/PAC REGIONAL CENTER FOR LATIN AMERICA AND THE CARIBBEAN

#### PUBLICATIONS (ARTICLES, TRANSLATIONS, DISTRIBUTION OF *IPN*)

- ***International Preservation News (IPN)***: On June 2, 73 copies of the bulletin *International Preservation News (IPN)* N° 36 arrived from Paris. They were distributed to some public libraries and institutions in Caracas.

Later, this year, due to some inconvenience with the National Library customs agent, the copies corresponding to *IPN* N° 37 and 38 were returned to Paris by the post office.

- ***Conservaplan***: After the translation, revision, correction, creation and update of records, we are in the process of finishing the lay out of *Conservaplan* N° 15, "Por qué digitalizar". We expect to distribute this publication during the first trimester of 2007 to the public libraries, Venezuelan public and private institutions and foreign institutions as well.

#### 1. TRAINING

- 1.1. In March the course Preservation and Conservation of Library, Archive and Museum Materials, Level I" was finished. Staff member from other cultural institutions in the country attended this course.
- 1.2. Four presentations on "Preservation and Storage of Collections" were given to 81 employees from the Metropolitan Mayor's Office of Caracas and the "Mariano Picón Salas" Public Library.
- 1.3. Four internships of students from different educational institutions were coordinated in some areas of the National Document Conservation Center.

## INTERNATIONAL COURSES

Two staff members of the Center attended the following courses in the city of Madrid, with a duration of three months, financed by the Ministry of Culture of Spain: "Restauración de Manuscritos e Impresos" (Restoration of Manuscripts and Prints" and "Restauración de Encuadernaciones" (Restoration of Bindings" Instituto de Patrimonio Histórico Español, from October 9 through December

## 2. STANDARDIZATION AND TECHNICAL ASSISTANCE

### 2.1. PRESERVATION AND CONSERVATION SUB-COMMITTEE

A meeting of the Sub-Committee CT 15, proposed by the Center, was held in February. Thirteen members of the Sub-Committee attended this meeting on Preservation and Conservation of Documents. The reading and discussion of the document of the Spanish standard "Condiciones de Almacenamiento de Archivos y Bibliotecas" (Archive and Library Storage Conditions" was started. The participants agreed on an individual reading in order to make additions, if necessary, and discuss them later in a future meeting.

### 2.2. COLLECTION DIAGNOSE AND TECHNICAL ADVISING SERVICE TO OTHER INSTITUTIONS

These activities encompass diagnosing the state of conservation of collections and technical advising for the creation and installation of preservation and conservation workshops. The Center made collection diagnose for the following institutions, among the most relevant:

- Different faculties of the Central University of Venezuela (UCV)
- National Assembly of Venezuela
- National History Academy
- Simon Bolivar University (USB)
- National Reading Commission Foundation
- Ministry of Infrastructure
- La Salle Foundation
- Ethnomusicology and Folklore Foundation
- National Audiovisual Archive of Venezuela
- Ministry of Energy and Oil
- Chevron Corporation
- Parliamentary Library "Luis Beltrán Prieto Figueroa"
- National Book Distributor
- Ministry of Health

## 3. INTERNATIONAL COOPERATION

- One of the Center's staff members participated as lecturer in the 1<sup>st</sup>. Encounter of the National Network of Research and Documentation Centers / RENCID: Research within the Community. This event was organized by the IAEM (Institute for the Performing and Musical Arts) and was carried out at the CELARG (Romulo Gallegos Latin American Studies Center) on October 28 and 29.

- Thee other staff members participated in the International Book Fair II (Caracas) where they gave a presentation on "Basic Principles of Conservation, Preservation and Microfilming of Different Bibliographic and Non-Bibliographic Materials".

### 3.1. TECHNICAL ADVISING SERVICE TO FOREIGN INSTITUTIONS

- One of the Center's staff members visited Guatemala (July 31 through August 4) in order to give technical advice to the National Library of Guatemala "Luis Cardozo y Aragón", in relation to the installation of a conservation center. She also gave the workshop "Basic Principles of Documentary Preservation". With this activity, the Center responded to Ms. Esther Martínez de Lima, Director of the Library, who made her request of advice by the intermediary of the Association of National Libraries of Ibero-America (ABINIA).
- Another member of the staff of the Center traveled to the Dominican Republic from October 23 through 27 to give her expert advice to the National Library for the construction of a conservation center. She also gave the workshop "Basic Principles of Documentary Preservation", addressed to the personnel of that institution. The travelling expenses and hotel were financed by ABINIA.

## 4. THE CENTER'S FIELD OF EXCELLENCE

### RESTORATION OF DOCUMENTS

We carried out the conservation treatment of 19 volumes of the "Constitutions, Amendments and Decrees of the Republic of Venezuela." These documents are from the period 1830 - 1973.

### 4.1. PRESERVATION AND CONSERVATION OF THE COLLECTIONS OF THE NATIONAL LIBRARY OF VENEZUELA

#### PRESERVATION

We made the in situ preservation of 51,898 documents of the National Library. Among them, we can mention the donation of the Collection Tomás Enrique Carrillo Batalla, formed by 13,553 books. We made 364 bindings and 13 facsimiles of various documents. In addition, we microfilmed 103 titles of the Official Publications Collection, the Rare Book Collection, the Newspaper Collection, Book and Pamphlet Collection, etc.

#### CONSERVATION

We treated different original documents, such as 127 architectural plans of the Audiovisual Archive Collection. Also, we treated 288 books and made the rebinding of 16 volumes of the Rare Book Collection, one of which corresponds to a book titled *Digestorum Sev Pandectorum* (1567). From the Official Publication Collection, we treated the Debate Minutes and one volume of Decrees of former president Guzmán Blanco. From the Serials Collection, we treated 144 issues of the magazine *Horizontes*, from the period 1880-1910.

#### PHOTOGRAPHY LABORATORY

This laboratory resumed its support to the photography collection of the Audiovisual Archive Collection with 290 photographic prints and 247 photo-documentation processes.

#### 4.2. DIGITIZING PROJECT

The National Documentary Preservation Center, performed the digitizing of the Archive of Generalissimo Francisco de Miranda, consisting of 63 volumes about his trips and expeditions, the French Revolution and Negotiations.

December 2006

Translation:  
Solange Hernández

## USA – Washington



Ms Diane van der Reyden  
Director IFLA PAC  
Library of Congress

# PRESERVATION DIRECTORATE Annual Report, FY 2006 (Library of Congress)

## Highlights

### **New Chiefs Hired**

During the first half of fiscal 2006, the Directorate hired new chiefs for three divisions: Dr. Nels Olson for Preservation Research and Testing, Diane Vogt-O’Conner for Conservation, and Jeanne Drewes for Bindings and Collections Care Divisions.

Dr. Olson comes from the biotechnology field, having been Staff Scientist at Molecular Dynamics and Senior Staff Scientist and Associate Director for Systems Analysis and Integration at Illumina, overseeing forensic analysis, quality assurance, and research and development. He was an engineer before obtaining his doctorate in organic synthesis and analytical chemistry, and following that he was a Fulbright fellow and worked on preservation projects abroad. He has authored several patents.

Ms. Vogt-O’Connor previously oversaw conservation of special collections at the National Archives and Records Administration, the National Park Service and the Smithsonian Institution. She co-founded “School for Scanning” and authored several works on preservation, as well as over two-dozen *Conserv-o-Grams* on topics including photographic materials, rare books and digital projects. She holds two double masters degrees, in Library Science and Archives, and in Art History and Museology.

Ms. Drewes formerly supervised collection care and binding at Michigan State University and Johns Hopkins, supervising binders, vendors and trainees. She has prepared many publications and presentations on binding and collections care, including standards, trends in alkaline paper, risk management, and digital preservation. She is a trained bookbinder who was awarded a preservation internship by the Mellon Foundation, following completion of her Masters of Library Science.

### **Laboratory Upgrades**

The Preservation Directorate is now positioned to provide increased leadership to libraries, strengthened by Library Service’s (LS) new strategic plan to develop a National Preservation Strategy that identifies LC’s responsibilities, including LC’s role in disaster response and recovery efforts, as well as by a one-time investment of \$2 million to upgrade 25 year old equipment in the Preservation Research and Testing Division (PRTD). PRTD’s 5-year equipment plan has been accelerated into one year, enabling the lab to be the research leader for the 21<sup>st</sup> century for traditional, audio-visual and digital collections,

by increasing its capabilities to identify new materials, develop new techniques and set new standards. For example, PRTD will be able to:

- Create unique and complete spectral “finger prints” of top treasures, including the Waldseemüller Map, using a full spectrum of light (ultraviolet, visible and infrared), in order to monitor changes in condition faster and more accurately.
- Identify quickly and precisely materials and decomposition mechanisms of magnetic media, in order to diagnose relative states of decay and develop selection criteria critical to decisions determining what must be reformatted before all is lost.
- Evaluate failure mechanisms of new digital storage systems, such as spinning disks or holographs, by identifying metal-catalyzed deterioration at the nuclear level rather than at a macro level.
- Evaluate new production prototypes for scanning vulnerable sound recordings, such as warped or dirty phonographs or cylinders, which previously had to be played with a stylus that could damage the recordings further.
- Mimic degradation caused by temperature and relative humidity on collection material at a microscopic level in an environmental scanning electron microscope, enabling, for instance, the establishment of precise, international guidelines for cold storage (which are currently not uniform) in order to improve environmental control standards.
- Analyze collections non-destructively, and in real time, without taking samples from items, distinguishing, for instance, between acetate and nitrate film in 3 seconds rather than 30 minutes, since sample preparation won’t be required.
- Examine collections in situ using X-ray fluorescence equipment portable enough to carry into storage areas, thereby reducing the risk of transferring collections or making them temporarily unavailable for use.
- Reduce the time needed for accelerated aging from 30 days to 3 days, thus gaining a 10-fold increase in efficiency for longevity and durability testing.
- Take and analyze air samples, in order to identify pollutants or other contaminants instantly.
- Attract leading scientists from many disciplines to join the Library in developing, testing, publishing and advocating innovative solutions to collections care, stabilization, storage and other emerging challenges for all stewards of cultural heritage, by providing space and equipment needed to accommodate such scientists.

### **Stats Summary**

In fiscal 2006, the Preservation Directorate completed over 10,472,480 assessments, treatments, rehousings, and reformatting for books, paper, photographs, audio-visual and other items, including Chinese rubbings and George Washington’s obituary. Through the coordinated efforts of the Directorate’s divisions and programs, over 7,688,900 items have been repaired, mass deacidified, or microfilmed or otherwise reformatted. This represents an increase of 7.6% over fiscal 2005.

### **IFLA PAC Center Initiatives**

The Directorate worked with the Bibliothèque nationale de France, the International Federation of Library Associations (IFLA), and the IFLA Preservation and Conservation (PAC) Section to develop a special symposium on “The 3-D's of Preservation: Disasters, Displays, Digitization,” and presented a paper on exhibition preservation policy and practice. The symposium noted that recent *disasters* around the world have highlighted the need for better planning and preparation to ensure survival of library collections and cultural materials; increasing numbers of exhibitions of library and archival materials point to the need for standards and best practices to make certain *displayed* items are not damaged; and *digitization* of materials is increasing around the world, yet the status of preservation of digitized files remains unknown.

In its role as the Regional Center for Preservation and Conservation for IFLA in North America, the Directorate also hosted IFLA PAC members representing a dozen major libraries and archives in the United States and Canada at LC at a two-day program on, first, “Capturing Katrina: Collections-Recovery Experiences: Oral Histories,” of first “preservers,” and, second, “Future Directions in Safeguarding Document Collections,” in collaboration with FLICC and the American Folklife Center. The first event featured the recording of oral histories of 8 conservators who were “on the ground” following 2005 hurricanes. The second event was attended by 30 individuals representing major government agencies, funders (NEH, IMLS), and organizations including AIC, SAA, AASLH, and CLIR (ALA was not able to send a representative). This program discussed models for future preparedness program, education and on-site response; potential partner groups; research needs; funding opportunities; and next steps. These included developing guidelines for grant applications to NEH in conjunction with recognizing SAA’s May Day initiative for emergency preparedness, hosting a follow-up meeting at the Library in December to mark the 30<sup>th</sup> anniversary of the initiation of LC’s original National Preservation Program Office, and targeting 2008 for focus by funders on collection salvage

Following the advent of Hurricane Katrina, the Directorate held 6 salvage workshops at LC and trained 44 librarians from LC and 30 from 19 outside agencies (e.g. Senate, Treasury, Census, Navy, Army, Mint, DOS, NASA, NAL, NIH/NLM, NIST, IRS, and NOAA) in the basics of collections recovery free of charge. At an offsite workshop in Alabama, 12 participants representing Auburn University and 7 public libraries were trained. LC staff in 12 divisions (AFC, AMED, ASIAN, European, G&M, LAW, MSS, MUS, P&P, SER, CALM, Hispanic, and CRS) have been trained in salvage, and 14 staff in 4 divisions (AMED, ASIAN, G&M, and MSS) have been trained in relocation of collections inhouse in the event of an emergency incident. Working with Federal Library and Information Center Committee (FLICC) and other initiatives, the Directorate has provided outreach and on-site workshops, information and supplies for entities in the Gulf States of Florida, Mississippi, Louisiana, Alabama and elsewhere. The goal is to develop in-house, metropolitan, regional, and national networks of people trained in salvage of library collections, who can be called upon by the Library of Congress in the event of local or regional emergencies. To this end, the Directorate is creating a national email list and phone tree for 350 institutions receiving mailings of the IFLA Preservation Newsletter to establish a more effective and instant communications network nationally.

Finally, the Directorate initiated or participated in several other major emergency-related activities, including:

- Taking part in weekly conference calls with FEMA and Heritage Preservation Foundation, as well as with representatives of the IFLA PAC North America Network coalition. A website with links for emergency mitigation was enhanced and posted on the LC IFLA PAC webpage (<http://www.loc.gov/preserv/iflacore.html>).
- Co-Chairing and participating on Heritage Preservation Emergency Management Team Task Forces, charged to determine a) basic package of information resources that institutions/sites need after disasters, b) supplies, equipment, and services most urgently required in a disaster’s aftermath, c) how supplies can be collected, pre-positioned and delivered effectively, d) types of workshops or training most useful to institutions in areas affected by disasters, and e) dissemination of response and salvage information to members of the public.

### **Mellon Photograph Survey Progress**

The Directorate, supported by a generous grant from The Andrew W. Mellon Foundation, completed its 15-month program to adapt a photograph survey performed at Harvard University in 2003, to the Library. While the number of items in both institutions is similar, the marked difference between the centralized organization of the Library of Congress and the decentralized organization of Harvard University posed significant conceptual challenges in adapting the survey, especially in surveying a collection of over 14 million items. While the Harvard and Library of Congress surveys involve photographs, there is potential application to other types of cultural property such as audio-visual

materials, works of art on paper, and books, and to smaller collections. Findings indicate that in-depth risk and condition assessments are needed to improve storage and increase treatment for the collections. A workshop will be organized for fiscal 2007.

### **Topics in Preservation Science**

During the first half of fiscal 2006, eight TOPS lectures were presented for librarian, scientists and conservators, covering the preservation of digital, magnetic tape, photographic and other audio-visual media; low oxygen storage systems; solid-phase microextraction techniques; and the work of former LC's Restoration Director, Peter Waters, as a designer bookbinder before the Florence Flood disaster of 1966 led in his coming to LC in 1971.

### **Digitizing Sound Initiative**

DOE's Lawrence Berkeley National Laboratory (LBNL) developed and delivered a prototype 2-D scanner to the Library for evaluation, in compliance with the "Image, Reconstruct, Erase Noise, Etc." (IRENE) project. The prototype, which is now being tested for fidelity, will minimize scan time to image lateral (side-to-side) groove disc media using high-resolution digital microphotography in two dimensions (2-D) to provide quality reproduction. By quickly producing an audio file, the prototype addresses the mass digitization needs of major collections. Since it cannot measure the third dimension, a research project has been designed to develop the ability for 3-D scanning that can preserve audio on vertically cut cylinders, media with poorly defined groove geometry such as dictation belts, and the full groove profile of discs, which could lead to higher fidelity audio reproduction. Of the lateral groove discs targeted by IRENE, approximately 10% were judged to have such severe wear as to not be suitable for 2-D imaging. Many were older, acoustically recorded discs. These would still be good candidates for 3-D scans. Due to rate limitations of 3-D scanning technology, the system proposed would not offer the low scan time, access-oriented capability of IRENE. The new device will instead be designed primarily for preservation to extract maximum information from grooved mechanical sound carriers. A key goal will be to quantitatively evaluate the optical measurements of media against audio preservation standards. The breadth of materials requiring full 3-D profiling represents a diverse range of formats and compositions, including some of the oldest and most physically compromised items held in collections across the nation, such as:

- The entire catalog of commercial Edison molded cylinders and "Diamond Disc" records.
- All unique directly recorded soft-wax cylinders covering dictation, performance, spoken word, ethnographic, linguistic, and other fieldwork. A few examples include Edison's experimental recordings held at the Edison Historical Site, the Ishi and other Native American recordings of A. Kroeber at the University of California, Berkeley, the Hawaiian folk music recordings of Helen H. Roberts, and the correspondence dictations of Jack London.
- Plastic dictation belts including White House phone conversations, interviews, testimony, and working copies or notes of authors, playwrights, and screenwriters.

### **Preservation of Treasures Program**

In collaboration with the National Institute for Standards and Technology (NIST) and the Alcoa Foundation, the Directorate has started the process of creating a permanent, oxygen-free, housing for the 16<sup>th</sup> century Waldseemüller Map that depicts the name "America" for the first time in the Western Hemisphere. The encasement design is almost complete and the fabrication process will start in the fall of 2006. Alcoa Foundation contributed over \$100,000, as well as materials, to the project. Although the size of the encasement is unprecedented, upon completion the map will be able to be safely displayed on a long-term basis, and will form one of the Library's highlights when the passageway from the Capitol Visitors Center opens in 2007.

### **Microfilm Roundtable**

The Library of Congress and the British Library have collaborated to address problems associated with cellulose acetate microfilm collections. Three international round-tables on preservation microfilm have

been convened with other leading institutions to develop a united approach to common problems. The final meeting was held at Princeton and led to launching the Cellulose Acetate Microfilm Forum (CAMF) website (<http://www.bl.uk/about/collectioncare/acetate/camfintro.html>), which covers Guidelines for surveying cellulose acetate collections.

### **Media Outreach**

Directorate staff were filmed and interviewed on two occasions. The first interview was by the TV show *History Detectives*, and involved discussing UV, IR and stereomicroscopic examination of a map purportedly of the Civil War era. The second was an interview touching on paper conservation in the US, filmed by a Japanese group for Japanese television.

### **Fellows and Interns Training Program**

The Directorate hosted 9 fellows and interns, including 2 CIRLA Fellows, 2 HACU Interns, and 4 otherwise funded Fellows. The HACU Fellows both worked on characterizing a micro-spectrometer used to measure fading while working toward their BS in Chemistry, were Michelle Ann Sanchez (Regis University) and Trojovon Talley Howard University). The other funded fellows included Harper-Ingling Paper Conservation Fellow Sophie Lewincamp from the University of Canberra, Australia, who has a Bachelor's degree in Applied Science majoring in Conservation of Cultural Materials; Cecil and Michael Pulitzer Book Conservation Fellow James Thurn, University of Texas at Austin and a candidate for Master of Science in Information Studies, Specialization in Conservation of Library and Archive Materials (he also has a MS in Environmental Engineering Science from Syracuse University as well as a BS in Paper Science and Engineering from SUNY College of Environmental Science and Forestry); Insurance of North America Fund (INA) Fellow Mei-Cheun Chen from Tainan National University of the Arts, with a Master's Degree in the Graduate Institute for the Conservation of Cultural Relics, Chinese Cultural University;; and Nielson-Brainbridge Fellow Cindy Connelly Ryan.

The Fellows and Interns were trained in a wide variety of preservation and treatment techniques from examination, emergency treatments, exhibition treatments, moving preparations, and research projects. Specific techniques employed include board reattachments, surface cleaning, re-sizing, re-sewing, protective treatments, humidification, flattening, mending and filling of losses, mold removals, leafcasting, pigment analysis, washing, lining, in-painting, mending, and rehousing.

## **Conservation Division**

### **Overview**

The Conservation Division (CD) ensures the continuing existence and usefulness of the Library's special format collections to Congress and the American public.

Conservators and technicians do the following core activities:

- Provide conservation treatment to valuable, high use, and high-risk items identified by the Library programs as the Library's most endangered holdings;
- Analyze holdings, assess risks, and implement appropriate mitigation actions;
- Answer reference questions on conservation and preservation from fellow professionals and Congress;
- Develop care, handling, and management policies, procedures, and training for digitizing projects, exhibitions, loans, moves; and special events or other projects;
- Implement emergency prevention, response, and mitigation procedures for collections;
- Maintain collections through the design and creation of appropriate housings;
- Monitor and document storage and exhibition environments and materials to ensure the best possible collections environments throughout all Library buildings and for all holdings;
- Manage and monitor the cool storage and exhibition of Top Treasures and the maintenance of their cases;

- Stabilize materials for digitization, exhibitions, loans, and special events;
- Work with the programs to identify holdings at most need of treatment and arrange for their transfer to Conservation for treatment; and
- Perform materials research and develop best practices for the conservation treatment of audio-visual materials, paper, bound volumes, and photographs.

In fiscal 2006, divisional conservators provided care to a total of over 2.6 million endangered special collection items, with emphasis on the Library's most significant holdings. CD staff surveyed a total of 198,102 rare and fragile items so they could be stabilized by treatment or rehousing for access, digitization, exhibition, and relocation to off-site storage. In fiscal 2006, Conservators treated a total of 16,243 items from twelve curatorial divisions, including 784 books, 14,013 paper documents, 944 photographs, and 502 other format materials. Staff members housed 2,379,877 items, including the preparation of 6,078 protective boxes; the cleaning and housing of 15,397 discs, film, and magnetic media; and rehousing of 2,263,288 photographs and 94,696 paper-based items, as well as 418 miscellaneous items. Conservators also labeled 26,416 items.

### **Conservation Treatment Section:**

The Conservation Treatment section focuses upon assessing, researching, surveying, and stabilizing fragile or endangered Library special collections materials from the 12 curatorial divisions so that they may be made available for access, digitization, loan, and exhibition.

### **Treatments**

Divisional conservators solve the challenges posed by complex deterioration challenges found in collections of historic rare books, manuscripts, photographs, and related materials. Divisional conservators research, develop, and implement:

- complex removals of accretions, attachments, and stains;
- techniques for strengthening rare materials through alkalinizing, filling, lining, and mending; and
- flattening techniques when materials are distorted to improve the collections' capability to withstand access, digitization, exhibition, and loans.

Highlights for fiscal 2006 include treatment of documents from the era of the Founding Fathers, such as the William S. Johnson Annotated Draft of the U.S. Constitution and George Washington's personal copy of the Dunlop broadside of the Constitution from 1787, as well as the treatment of the Middlesex Gazette of 1799 containing George Washington's obituary. For the Library's exhibition *Benjamin Franklin: In His Own Words* and the Bruce Museum of Arts and Science exhibit *Ben Franklin's Curious Mind*, Conservators treated fifteen items, including the Stamp Act of 1765, mezzotint portraits of Franklin, letters from Franklin to George Washington, his notes on the common cold, and his design for bifocals.

Other treasures treated included a major body of Chinese and Korean Rubbings, whose fragility previously kept them from use by scholars; a pictorial map of China in watercolors from the 18<sup>th</sup> century; an ongoing project to research and treat an album of Indian paintings on mica; a 19<sup>th</sup> century Chinese woodblock print map of the world from Geography and Maps Division; and five 19<sup>th</sup> century paintings of Chinese costume images of aristocrats and government officials. Additionally two volumes of 19<sup>th</sup> century sketchbooks by noted woodblock artist Ando Hiroshige from the Japanese Section of the Library's Asian Division were mended to improve their longevity.

Of great significance to the worlds of music and dance, the Martha Graham copy of Aaron Copeland's *Appalachian Spring* with Graham's choreographic notations was treated for the Music Division. Conservators treated selected rare books from the Dayton C. Miller Collection on the flute from the 14<sup>th</sup>-20<sup>th</sup> century and the Bradbury Album. Prints and Photographs Division holdings treatments

included a major collection of Herblock political cartoons, salted paper prints from the Roger Fenton Crimean War holdings, and a lithograph by William Gropper of Bowery Job Hunters.

Conservators worked on several major projects for the African and Middle Eastern Division, including treating a Latin-American Dictionary from 1714 and a rare 1758 Armenian Church Doctrines volume. Staff conservators also assessed and repaired the only known Iranian-Kurdish Ketubah (Jewish marriage contract) from the town of Bijar, deep within Iran, dating from 1936.

The Phillips Society generously supported a contract conservator to treat maps identified by the Geography and Maps Division. Staff reviewed the maps, tested inks and colors, documented the treatments, supervised and assisted the conservators, and filed the treatment reports. Staff treated the valuable atlas, *Theatro de Mondo*, Ortelius of 1613. To aid in future treatments of Asian maps, atlases, scrolls and fans in the collections of the Geography and Map Division, Conservators designed a survey to correlate basic bibliographical information with conservators' observations about the physical make-up and condition of the objects, as well as specific steps for treating each item.

Conservators designed and constructed a box for the display and storage of a large, heavy autograph album from the Manuscripts Division. Recently rediscovered in offsite storage, this book is the first volume of 111 volumes presented by the Polish government in 1926 to President Calvin Coolidge on the 150<sup>th</sup> anniversary of the signing of our Declaration of Independence. Collectively, the set is known as *Polish Declarations of Admiration and Friendship for the United States*. Containing illustrations by some of Poland's finest artists, as well as the signatures of all the top officials in the government, military, judiciary, clergy, and academia, this book was at risk as it is large, heavy, awkward to handle, and featured an attached wax seal and a metal box. Conservators custom designed and created a box that supports the book. The box allows the volume to be viewed without moving the seal and to be stored tightly sealed for best protection of the volume.

### **Interpretive Programs Office Conservation Program (Exhibitions)**

Conservators assessed and or surveyed over 2,065 items, stabilized and treated 268 items, and rehoused over 2,033 items for over 75 separate exhibitions including individual Top Treasure cases, loans, local exhibitions by offices such as Copyright, the Capitol Visitor Center displays, and major LC exhibitions.

The fiscal 2006 exhibition projects roster also included the safe movement of Pre-Columbian objects from the J.I. Kislak Foundation in Miami Lakes, Florida, to the Library of Congress. Conservators prepared several of these Kislak items for access by the J.I. Kislak scholars, as well as assisting scientists in testing the objects to identify their component materials. CD staff surveyed, cleaned, and housed canvas bunks from transport ships from the Vietnam War for the Veterans' History Project. Divisional staff also created gift boxes for Laura Bush, Marjorie Fisher, John W. Kluge, and Mr. And Mrs. Putin.

Treated materials were featured in such in-house exhibitions as the *American Treasures* (Benjamin Franklin items); *Bob Hope*; *Maps of Our Lives*; *Jefferson to Jazz*; *an American Violin show*; and a Copyright Office exhibit. Items were also prepared for traveling exhibits such as *From the Home Front to the Front Line* (A Veteran's History exhibit) and *Disney: LC at LA*, an ongoing exhibit.

Planning for the new Capitol Visitor's Center exhibition hall exhibit cases, security, and mounting options and materials was a 2006 exhibit project of national significance. This work was supplemented by the preparation of Library of Congress items for exhibition in the Capitol Visitor's Center exhibition halls.

### **National Digital Library Conversion Conservation (Digitization)**

To support enhanced online access to rare Library collections, Conservators surveyed almost 48,000 items, housed 406 items, and treated over 5,223 items for seven National Digital Library, Global Gateway, and World Digital Library projects in fiscal 2006. Projects completed included Arabic

calligraphy sheets, Chinese rare book scanning, Continental Congress Broadsides, cuneiform tablet scanning, *France in America*, *Islam and Science*, *I Hear America Singing* (IHAS) *Sousa*, and the *Meeting of Frontiers* (Western America). Over 924 books, 46,845 paper items and leaves, and 25 photographs were assessed and treated for a total of 47,794 items made available for sharing with the public via the National Digital Library and the Web.

New initiatives in fiscal 2006 included four special projects to:

- Stabilize a varied assemblage of rare book and manuscript materials for the Global Gateway collaborative project with the Bibliotheque Nationale in Paris, *France in America*, which explores the history of the French presence in North American from the 16<sup>th</sup> through 19<sup>th</sup> centuries;
- Treat a significant collection of Chinese rare books as part of a multi-year cooperative project with the National Central Library of Taiwan;
- Stabilize selected books to be scanned for an online guide to the rare book and special collections division, which will provide the public with key information about the Division's holdings and services; and
- Stabilize nine Islamic manuscripts from the Mamma Haidara Commemorative Library in Timbuktu, Mali, for sharing on the Web.

### **Preventive Conservation Section:**

Staff completed the final year of a five-year project to preserve at-risk collections on the Library of Congress Capitol Hill facilities (i.e., Adams, Jefferson, and Madison buildings). Using existing resources, conservators and technicians treated an additional 113 bound volumes, 268 photographs, and 918 paper-based items for a total of 1,299 items, as well as providing custom housing to 77,657 paper items. Staff also constructed special protective boxes for an additional 5,435 items. Rehoused items included bound volumes, palm leaf manuscripts, glass plate negatives, photographs, and pre-Columbian artifacts.

Project highlights include assessment, photography and housing for recently acquired flasks and other objects belonging to the J.I. Kislak Collection, conservation treatment and housing for volumes from the Law Library's Russian Imperial Collection, and the treatment and housing of important 19<sup>th</sup> century photographs from both the Roger Fenton and Western Survey Collections.

### **Emergencies**

Conservators are the first line of defense for collections during Library emergencies. During fiscal 2006, Conservators responded to over 16 separate incidents including floods and leaks. Day or night when emergencies happen, conservators on the emergency "Beeper Team" are on call to assess damage, rescue collections, and immediately ensure the safety of the materials. For example, when Washington, DC, experienced 12 inches of rain in 48 hours on June 25<sup>th</sup>-27<sup>th</sup>, 2006, Conservation Emergency Response Team members worked through the nights to protect collections from building leaks, remove wet collections materials, and stabilize them so they would not be lost to scholars and the American public.

### **Environmental Monitoring**

Staff members collected and analyzed environmental data with a focus on identifying the greatest risks to collections in collections storage areas. Focusing on chemical deterioration from a combination of high temperature and relative humidity and physical damage from excessively dry or highly fluctuating conditions, staff continuously monitored the environments in all three buildings on Capitol Hill, as well as the Library's buildings in Landover, MD; Culpeper, VA; and Fort Meade, MD. Conservators managed and analyzed the resulting data from over 90 Preservation Environmental Monitors (PEM) to provide a comprehensive view of the threats to and life expectancy of all Library holdings.

Working with Facilities Services, staff made specific recommendations for the improvement of the collections storage environments at the Library's Landover, MD, Center Annex. Staff are now monitoring to assess the effect of recent equipment upgrades and operational policy changes in Landover.

Conservators working closely with the National Audio Visual Conservation Center (NAVCC) staff members recommended climate set points for collections moving from all Library buildings to the new facility in Culpeper, VA. Staff also employed logging devices to track conditions during all stages of the move. Conservation staff along with expert consultants (i.e. Image Permanence Institute and Herzog Wheeler Associates) have reviewed and made recommendations on the design of HVAC systems for proposed secured storage facilities.

The Preservation Directorate is now planning for the implementation of a web-based environmental monitoring system that will allow multiple user access from many sites. The system allows users the opportunity to store, organize, and access many types of pertinent information including collection material types, mechanical systems, and a history of emergency incidents. The monitored data and related analysis can be maintained by the system for each space being monitored.

Conservators pay particular attention to the management and monitoring of the Library's most valuable collections--called the Top Treasures--and the maintenance and management of their exhibition cases, storage cases, and special cool storage environments. Conservators also assisted with integrated pest management and mold mitigation.

### **Move Preparations**

Staff completed the final phase of a three-year initiative to prepare collections for their movement to two remote storage centers: the National Audiovisual Conservation Center (NAVCC) in Culpeper, VA, and Fort Meade, MD, (Modules 3 and 4). The logistics for the Motion Picture, Broadcasting, and Record Sound Division (MBRS) move of a collection items to NAVCC were significant, involving staff reviewing holdings, containers, and transport issues for each collection individually. Working with MBRS and the Architect of the Capitol, staff developed indoor air quality guidelines for the commissioning of the facility. Research and development work on air quality continues in the coming fiscal years as the Library seeks to create permanent Library guidelines on indoor air quality.

CD staff members additionally designed and developed specifications for collections cases, frames, housings, containers, equipment, and furniture, as well as providing reviews of the new buildings and storage spaces to ensure the best possible collections environments. Staff solved special preservation problems by developing new housing techniques, identifying appropriate new supplies and equipment, creating new preservation management tools and techniques, as well as by discovering new ways to stabilize via rehousings and treatment the millions of items of special collection books, paper, photographs and other special media needing to be moved.

Conservators housed and treated opera libretti, photographs, architectural drawings, and trademark albums, in preparation for relocation to remote storage in the Library's Fort Meade Modules 3 and 4. Working with contractors, staff planned and began implementing rehousing of bound newspaper volumes published in the United States in the 19<sup>th</sup> and 20<sup>th</sup> centuries. Conservators and technicians boxed, labeled, and cleaned the covers of historic volumes. Conservators also custom designed and built boxes for large collections of architectural drawings, 3-dimensional artifacts from the Local Legacies collection, and newly acquired rugs from the American Folklife Center (AFC).

For these moves, staff rehoused 77,657 fragile paper collections, constructed protective boxes for 5,435 books, stabilized 918 fragile paper based items, 268 photographs, and 113 volumes; assessed and surveyed 130,960 items, and offered consultations and guidance on preparations of collections for the relocations and new storage spaces.

### **Special Move Projects**

Using the Library's computer-aided mat cutting machine, staff created custom-designed storage mats to house fragile lacquer discs (i.e., phonograph records). These custom mats allowed Motion Pictures, Broadcasting, and Recorded Sound Division (MBRS) staff to protect fragile or broken lacquer discs during their move to Culpeper, as well as to keep the various pieces of shattered discs safely together for future reformatting efforts. A related Preservation Directorate research project (IRENE) has developed sophisticated imaging techniques that make shattered discs playable and their contents retrievable.

Staff, in conjunction with the Serials Division and History Associates, rehoused The American Serials Collection stored at the Library of Congress Annex in Landover Maryland. This collection of over 8,000 bound American newspapers (ca. 1800s-late 1900s) required surveying, the development of eight standardized boxes, developing a work plan for the contractors, the custom design of a label template, the custom construction of jigs to be used for measuring the books, box evaluation criteria development, and training development for the contractors to box the materials, as well as quality assurance throughout the project. The rehoused collection will shortly be moved to a high-density storage facility in Fort Meade, Maryland, currently under construction.

Technicians working with a contracted mover, and MBRS rehoused, assessed and labeled 6,000 rare and highly valuable wax cylinders in less than six months in preparation for their relocation to the Library's new National Audiovisual Conservation Center (NAVCC) in Culpeper, Virginia. These extraordinary cylinders date back to the origins of recorded sound. A random sampling after their relocation indicated that none of the irreplaceable discs were damaged during the move as a result of the careful rehousing and handling of the cylinders.

Staff worked closely with MBRS to rehouse an extremely rare collection of fragile early motion pictures prints on paper. Many of these Copyright deposit prints are the last surviving copies of nitrate films from the origins of the motion picture industry. Of great interest to film historians, MBRS regards this collection as one of the most important collections in their care. Conservators custom designed and built high quality boxes of uniform exterior dimensions, each of which holds multiple inner trays for paper film prints of varying diameters. Staff rehoused 6,500 prints in three months, making possible the collection's move to the National Audiovisual Conservation Center (NAVCC) in Culpeper, Virginia, on time.

### **Supplies**

Preventive Conservation staff further serve all directorates by identifying, budgeting for, purchasing, and providing appropriate supplies for all Library special collections rehousing efforts. Much of this rehousing work occurs for planned relocations to Fort Meade or Culpeper; and for access, digital scanning projects, exhibitions, and loans. In fiscal 2006, the Conservation Division placed over 452 supply requests totaling 114,000 items. The Preservation Directorate also tests and evaluates supplies for use with Library holdings.

### **Policies and Procedures Reviews**

The Conservation Division serves all branches of the Library by developing care, handling, and management procedures, techniques, and training for digitization, exhibitions, loans, high value and emergency collections care, and relocations of rare and fragile materials. The CD staff reviews all new Library policies and protocols for preservation concerns, working in committees and with colleagues to resolve issues.

### **Special Projects**

Preservation working in collaboration with staff from the Office of Security and Emergency Preparedness designed and contracted for the construction of an environmental safe used to protect high value collection items from physical intrusion, impact, water damage, environmental fluctuation and

fire. Before acceptance at the Library in August, 2006, the safe was tested via a water test, monitored, and modified to provide a stable environment.

The Preventive Conservation Section assisted with assessment, monitoring and treatment of an insect infestation and trained Acquisitions staff in the safe packing of materials slated for anoxic treatment. Staff also played an active role on the Library's National Fire Protection Association (NFPA) 909 Committee that was convened to assess practical applications of this code for construction projects within existing buildings, and to develop a risk assessment methodology. The Section collaborated with the Rare Books and Special Collections Division on the contract for metal shelf covers and ends to protect volumes from the Jefferson Buildings original slotted shelving and the protrusions from the cast iron uprights. Several staff members from the section have consulted on the use of cleaning products and methods for both the National Audio Visual Conservation Center (NAVCC) and on the Capitol Hill campus.

Conservators tested the feasibility of using the Division's new multi-spectral digital camera to enhance the legibility of faded manuscript text on abraded pencil text in a Civil War-era letter, water-damaged iron-gall ink text in the journal of an eighteenth-century priest traveling from Latin America to Rome and faded ink from the nineteenth-century records of the landscape architects the Olmsted Associates.

Staff continued to consult and test materials for the new Capitol Visitors Center. Project work included testing of materials, reviewing presentation formats, and assessing items for exhibitions in cooperation with the National Archives and Records Center. Staff undertook a research projects on 16<sup>th</sup> century colorants, specifically blue inks, found on documents manufactured in the Spanish colonies of present-day Mexico and Peru in the Library of Congress holding.

Another notable fiscal 2006 special project was the development of the first Library of Congress Conservation Division laboratory protocols for the treatment of materials created or notated with corrosive iron gall ink. Widely used by artists, authors, secular and religious authorities, and the general public for all kinds of works from the 1400s to the present, iron gall ink poses significant preservation problems for archives, libraries, and museums worldwide.

Conservators also conducted research on techniques and composition of Library collections. For example, a recent collaboration between a Conservator and a staff member from the Prints and Photographs Division explored American artist Joseph Pennell's use of pastel and charcoal. The study gathered fresh information for the first published catalogue and exhibition of Pennell's drawings, expanding the understanding of his working methods. The resulting paper entitled, *A Technical Study of Joseph Pennell's Pastels and Charcoals*, was delivered to the 5<sup>th</sup> International Institute for Paper Conservation Conference, Edinburgh, in July 2006, and a publication is forthcoming. The James Anson Kittredge Foundation supported this project.

## **Outreach**

Conservators provide training within the library and nationwide on a wide range of issues from emergencies to new treatment and rehousing methods. In fiscal 2006, for example, a conservator taught a workshop titled *Emergency Preparedness and Salvage of Library Collections* and hands-on disaster recovery sessions to Alabama librarians and archivists, as well as touring with the *Song of America Tour* to Oxford, MS, and San Jose, CA. During this tour, Conservators presented the Division's *Preservation on Parade* display and answered questions from the public.

Conservators taught and lectured on a wide variety of topics in the library, nationwide, and internationally including Italy and Scotland. In the U.S. staff spoke at such venues as the Conservation Center for Art and Historic Artifacts, the Freer and Sackler Galleries, the National Gallery of Art in Washington, DC, and the Italian Embassy in Washington, DC, as well as numerous professional meetings and conferences.

## **Tours**

The Conservation Division hosted 52 tours to over 317 visitors. Notable visitors to the division include Copyright royalty judges James Sledge, Stanley Wisniewski and William Roberts; Deputy Director of the Library of Parliament of Georgia Boris Gagua; Director of the National Library of Iraq Dr. Saad Eskander; the Library of Congress Madison Council; and Senator Wayne Allard of Colorado.

## **Fellowships**

The Conservation Division also hosted international fellowships and internships at the Division to share the division's expertise with the world. In fiscal 2006, the following conservation fellows worked at the Library:

- Mei-Chuen Chen from the Taiwan National University of the Arts, who received the Insurance of North America Fund Fellowship;
- James Thurn from the University of Texas at Austin, Texas, who received the Cecil and Michael Pulitzer Book Conservation Fellowship; and
- Sophie Lewincamp from the University of Canberra, Australia, who received the Harper-Inglis Paper Conservation Fellowship.

The Conservation Division hosted two Chesapeake Information and Research Library Alliance (CIRLA) Fellows:

- Netta Cox from the Smithsonian Institution, who worked largely with audio-visual collections, and
- Hector Morey from the Library who assisted with the housing of opera libretti, rare pamphlets, albums, and photographs from general collections.

The Library also benefited from the assistance of Conservation Division multicultural fellows Valeria Orlandini Dedececk, who comes from the McKay Lodge Fine Arts Conservation Laboratory, Oberlin, Ohio, with a degree from Winterthur Museum at the University of Delaware.

## **Binding and Collections Care Division**

The Binding and Collections Care Division (BCCD) provides services for the general and reference collections predominately. As part of the BCCD mission, periodicals are bound into volumes and monographs are rebound or conserved inhouse. In addition there is a major housing component to provide custom made boxes for multi-piece titles, various formats that do not sit easily on the shelf or old and damaged materials that can best be served in a box housing. The Library Binding Section (LBS) prepares materials to be outsourced for commercial binding, and provides labeling and shelf preparation for materials be housed at the Fort Meade facility and other areas. The collections care section provides inhouse conservation for the general and reference collections, providing rush services as well as project-based care for a variety of formats. Within the Division, general collections care incorporates education for patron and staff in care and handling of materials as well as providing reference services in the area of preservation for the public through the service of Question Point, which is staffed by a variety of library experts in various fields.

BCCD continued to provide general preservation assistance through the Question Point process answering 739 and an additional 78 by phone/fax/mail. The directorate continued to mail out request for ink for marking special collections and to mail out brochures. Enhancement to the Preservation Directorate web pages was begun.

### **Binding Section:**

The Library Binding Section continued to focus on improving efficiencies and eliminating backlogs. In spite of the retirement of three permanent Library Binding Technicians in January 2006, the LBS were able to stay current with the workflow and meet production goals.

During fiscal 2006, 149,332 items were labeled, 19,494 of these items were softbound monograph volumes (Copy 2's) assigned to the General Collection. LBS reviewed the quality of 260,527 volumes returning from the commercial binder, and Preservation Technologies (PTLP) contract staff reviewed 232,657 of those volumes. LC sent 259,728 volumes for commercial library binding, of that total, 201,453 were prepared by LBS staff. The staff sorted 216,611 volumes into binding styles in preparation for commercial binding.

Staff continued to provide a full time staff person to the Acquisitions and Bibliographic Access Directorate to assist in the decentralization of labeling workflow.

A new security door with a card access that leads to the loading Dock was installed in the Shipping & Receiving area of LBS.

LBS staff were approved for overtime for the months of August and September working a total of 352.50 hours. The work accomplished included labeling 6,664 items; sorting 3,652; typing (binding prep) 4,326; and quality review (QC) of 4,026. This completed all work on hand to prepare for additional volumes expected shortly in fiscal year 2007 from the ABA's enhanced processing program.

### **Collections Care Section:**

This Section provided treatment for 2,661 volumes, and made 8,384 boxes. This included two important boxing projects. For the Hispanic Reading Room, 1,000 boxes for the Luis Dobles Segreda collection of Letras Patrias, Costa Rica, 1826-1943. For the Asian Reading Room, 200 boxes for the Washington Documentation Center Collection, consisting of volumes from China created during the Ming and Qing periods (1368-1644). During approved overtime 207 boxes were made, and 285 volumes received basic treatments. This cleared several backlogs, which will better enable the staff to treat the additional volumes expected shortly in fiscal year 2007 from the ABA's enhanced processing program. In addition, 23,466 maps from the American Title Map collection were rehoused through the Section's management of a contract with History Associates, Inc.

Staff is collaborating with CALM, BIP and RBSC to move approximately 100,000 volumes from Landover to Fort Meade. The Section's contributions to the project have been identifying volumes to be transferred to RBSC, and cleaning and rehousing at risk volumes. This project will be on-going in fiscal year 2007.

The Section made use of the newly acquired automated Kasemaker boxing machine's enhanced capabilities, by making self-closing wrappers for volumes being sent to Fort Meade. These wrappers are thinner than the previous four-flap box, and therefore use less space within the Fort Meade box while still protecting at risk volumes. Additionally, these boxes do not require any fasteners, which speeds production and lowers cost. Also, the machine is being used to cut foam inserts for MRC multimedia boxes, and the MBRS Paper Print film boxing project. Previously cutting foam inserts had been a time consuming task done by hand using board shears, a book press and a die-cut knife. Now, this task is done with greater precision, and only takes seconds per piece.

The Section hosted two interns, Netta Cox and Hector Morey, for several days each. They learned basic treatment and housing techniques, as well as about commercial library binding. A volunteer, Carolyn Bazarnick, began working one day per week in the last quarter of the year, and she has begun to learn more complex treatments.

Activities of the Section Head have included: assisting in developing condition guidelines for Google to be used in working with their partner libraries nationwide; participating with OSI in evaluating the Kirtas automated book scanning machine, and dis-binding volumes for scanning projects with OSI and CRS.

Additionally, the Section Head served as a Contract Technical Evaluator for the FLICC/GPO library binding contract.

### **Preservation Reformatting Division**

The Preservation Reformatting Division (PRD) provides access to at-risk Library materials by converting items to new preservation formats, such as microfilm, preservation facsimile copies or digital reproductions. In carrying out this responsibility, PRD plans and manages the preservation reformatting budget; executes annual reformatting plans by establishing requirements and standards for preservation reformatting; and collaborates with other institutions to develop preservation reformatting projects that improve the quality, content and accessibility of reformatted works. Services are purveyed from multiple vendors to produce the resulting preservation surrogates.

In fiscal 2006, PRD successfully converted 5,865,061 units (e.g. print pages, photographs, posters), a 25% increase over the fiscal 2005 level, of Library material through a combination of preservation microfilming (5,809,544 pages or 3,295,852 exposures), preservation facsimile (3,557 pages or 21 volumes), digitization (46,656 pages, 132,752 files, or 2,091 works), and other preservation photographic reproductions (796 images and 4,508 acetate microfilm reels) for service to Congress and the public. The Division continued its support for audio and video recordings of official Library of Congress performances (32 performances) by the Motion Picture, Broadcast and Recorded Sound Division. Reformatted materials were drawn from ten Library Collection and Services divisions, the Law Library, and the Master Negative Microform Collection held by the Photoduplication Service.

The annual preservation reformatting workplan, developed in consultation with custodial divisions, consisted predominantly of over-sized foreign serial publications on poor quality newsprint (e.g. legal gazettes, newspapers, periodicals), copyright drama scripts, deteriorating acetate and unstable nitrate negatives, and embrittled monographs. Due to the inherent vice of the paper on which most of this material was printed and rights restrictions on the content, preservation microfilm continued to be the dominant reformatting solution employed.

In addition to the more routine high-volume reformatting of General Collection and Law Library materials, PRD significantly increased its allocation of resources to address 1930's era Copyright Drama Deposits held by the Manuscript Division, severely embrittled World War I and World War II era military serials, and deteriorating acetate and nitrate photographic items from the Prints and Photographs Division. A new hybrid digitization pilot project was initiated to produce complete best copies of local histories in digital form with content derived from early Library produced microfilm and from original illustrated print materials retained by custodial divisions.

PRD continued working directly with the Photoduplication Service, the Serial and Government Publications Division, and the African and Middle Eastern Division to collate and prepare materials for preservation microfilming (409,392 pages). All monographs converted to either digital form or preservation facsimile were prepared and inspected by PRD staff.

PRD maintained the quality of reformatted products through a quality assurance program supported by both staff and an external service provider. Approximately 2,005 micrographic units (e.g. microfilm reels, microfiche) received complete bibliographic inspection while all other units received a more basic level of review. Quality assurance feedback was provided to all reformatting vendors in order to correct any identified deficiencies and to ensure improved compliance with existing contract requirements.

### **Micrographic and Facsimile Program**

Work began under a new multi-year preservation microfilming and digital imaging contract that was successfully competed and awarded to OCLC Preservation Service Centers at the close of the previous fiscal year. This new contract allows the Library to continue high-volume off-site preservation

reformatting of a wide variety of library materials at a competitive cost. Deliverables under this new contract include microfilm, microfiche and digital files. Forty-two percent of total PRD reformatting work volume was accomplished through this new effort.

A more closely coordinated preservation microfilming effort between PRD and the New Delhi Field Office resulted in more effective reformatting of newsprint serials acquired by the New Delhi, Nairobi and Cairo field offices. This effort resulted in a continued reduction in the volume of material awaiting reformatting attention in Washington while increasing the timely delivery of fully preserved material to custodial divisions. Significant progress was made in reformatting a backlog of Arabic language newspapers by directing more of this material through the New Delhi Field Office and increasing the volume microfilmed under contract and through the Photoduplication Service in Washington.

The Library's existing commercial binding contract with the HF Group, formerly Heckman Bindery, was modified to allow for preservation facsimile services. A relatively low volume of embrittled rights restricted monographs and single serial volumes assigned to reference collections were identified for preservation facsimile replacement. Fragile monographs in the public domain were digitized to allow wide-spread access rather than producing a facsimile copy for on-site use.

### **Master Negative Microfilm Inventory**

Essential steps were undertaken to improve the stewardship of the Library's Master Negative Microfilm Collection. Based on condition data collected through an earlier survey of this collection, PRD doubled the number of deteriorating acetate microfilm reels for duplication. All of the microforms were produced before 1948 and have never been rehoused. A new contract was awarded to Library Systems and Services (LSSI) to begin an item level inventory of the Master Negative Microfilm Collection in preparation for its upcoming move to cold storage at the Ft. Meade facility in 2009. Bibliographic activity by the Division resulted in the cataloging of 1,303 newspaper titles filmed by the Library. More than 3,010 microfilm holding records were created in the Library's integrated library system.

### **Photographic Reformatting Program**

The Division continued to reformat deteriorated high value photographic negatives held by the Prints and Photographs Division (P&P). Services were acquired from Chicago Albumen Works to clean, stabilize, and duplicate in analog and digital forms 100 deteriorating acetate negatives. Select reformatting of high-demand nitrate negatives stored at the Library's Wright Patterson facility was expanded through a new contract with TransImage. This work results in the creation of high-resolution digital surrogates that will greatly decrease the need to transport and circulate originals in the future. Items are identified through Photoduplication Service customer requests and by P&P curatorial staff in support of Library exhibits and publication projects.

A new project was initiated to produce high-resolution digital images of historical prints and posters. Approximately 300 posters advertising circus performances and performers in the P&P collection were identified for scanning. A portion of the American printmakers (e.g. . Baillie, Currier & Ives, Sachse & Co.) collection consisting of larger drawings measuring up to 28"x 40" were targeted for imaging in order to reduce the risk of damage or deterioration caused by environmental and human factors associated with exposure and handling. A contract was awarded to DataTrak to provide needed on-site digitization services for this project.

### **The Digital Preservation Laboratory (DPL)**

Digital Preservation Laboratory (DPL) staff continued a number of longstanding investigations and collaborations, with the greatest success coming from the JPEG 2000 technology evaluation and adoption program. DPL staff consulted with OHIOLink personnel in program planning for the inaugural ALA/LITA JPEG2000 for Libraries and Archives interest group meeting, and proposed requirements for the inclusion of JPEG 2000 technology in the FEDORA digital object repository system (a project subsequently sponsored by the Google Summer of Code program). Other JPEG 2000

related activities include the refinement of encoding techniques for high-resolution scans of microfilmed newspapers. The DPL continues to support color management efforts at the Library by making available color management software and hardware for use by interested parties. Production oriented research and development activities include the continued development of objective imaging performance measures and statistical quality control techniques.

DPL representatives are involved in the Directorate's strategic planning program, focusing on a national preservation strategy for traditional and electronic media, exploring core and expanded functionalities of digital works and in helping develop plans for a state of the art Preservation Research and Testing Laboratory.

Staff presented and published papers for the 2006 Computers and Libraries Conference in Washington DC (Towards a Holistic View of Digital Preservation), the 2006 Museum Computer Network Annual Conference in Boston (Learning From JPEG 2000), and the Society for Imaging Science & Technology Archiving 2006 Conference in Ottawa, Canada (Managing a Quality Digitization Practice in Cultural Heritage Institutions: Statistical Quality Control Tools and Techniques). In addition, staff participated in a conference on PDF Applications in Government in Washington DC, and the Meta|Morphosis Workshop on microfilm digitization at the University of Kentucky.

The Division continued its "Scan on Demand" digitization of embrittled items requested via the Interlibrary Loan program and brittle book programs, supplemented by telephone directories from the European Division, digital versions of the *American Newspaper Annual* (Ayers Directories) and other reference works. 134 works were processed, consisting of 44,699 pages (125,071 digital files).

### **U.S. Newspaper Program (USNP)**

The United States Newspaper Program (USNP) is an ongoing cooperative national effort among the states and the federal government to locate, catalog, and preserve on microfilm newspapers published in the United States from the eighteenth century to the present. Program funding has been provided by the National Endowment for the Humanities (NEH), with the Library providing technical assistance to program participants. Total lifetime program funding has amounted to more than \$54,000,000.

As of January 2006, USNP projects have produced or updated 281,841 newspaper catalog records and microfilmed over 71,864,000 endangered newspaper pages. The National Endowment for the Humanities (NEH) announced U.S. Newspaper Program awards of \$892,559 in fiscal 2006 to fund continuing projects in two states: Illinois (Chicago Historical Society, Chicago), and Pennsylvania (Pennsylvania State University, State College). Other projects are ongoing in Illinois (University of Illinois, Urbana) and Tennessee (University of Tennessee, Knoxville).

Staff continued working directly with program participants, OCLC and other interested external parties in repurposing the bibliographic and microfilm products produced through the USNP for new digital initiatives that better connect users to the collections. Tangible results of this effort include the successful conversion of over 900,000 local newspaper data records to the newer MARC21 holdings format in OCLC's Connexion system and the inclusion of newspaper bibliographic and holding records in the National Digital Newspaper Program digital resource undergoing testing at the close of the year.

### **National Digital Newspaper Program (NDNP)**

The National Digital Newspaper Program, a partnership between the National Endowment of the Humanities (NEH) and the Library of Congress (LC), is a long-term effort to develop an Internet-based, searchable database for all U.S. newspapers and select digitized historic titles. Supported by NEH, this rich digital resource will be developed and permanently maintained by the Library of Congress. As a collaborative digital effort between Library Services, the Office of Strategic Initiatives (OSI) and Information Technology Services (ITS), this program directly contributes to the ongoing strategic goals of the National Digital Library Program by creating a national collection of high-value digitized historical

newspapers; developing a Web-accessible repository to the national collection selected by state awardees; providing free and open Internet user-friendly access to important historical content; and developing consensus on standards and best practices for access to both digitized historical newspaper content and digital library preservation practices. NDNP represents a logical extension of the technical and collection building expertise supporting the Library's highly successful American Memory digital collection effort.

In the second year of a two-year program development phase, the Library continued building a viable and extensible program model for funding and digitization by state awardee institutions (in 2005, NEH awarded \$1.9 million in NDNP awards to 6 states – California, Florida, Kentucky, New York, Utah and Virginia), creating a sustainable digital repository, and validating technical approaches for the processing and accessing of complex digital objects.

This year the digital preservation architecture supporting the long-term program fully took shape with the development of an NDNP repository and a multi-functional user interface to provide access to historical newspaper content for the general public. Significant accomplishments were made in the incorporation of digital asset validation strategies and distribution of the process to awardees, establishing aggregation workflow, data ingestion, and dissemination services to a Web interface, all proceeding in parallel over the course of the development phase.

In early January 2006, the Library completed its initial conversion of selected microfilmed newspaper content, representing Washington, DC, newspaper titles from 1900-1910. These 93,000 digitized pages (approximately 400,000 digital objects), along with the comprehensive newspaper title directory -- approximately 140,000 bibliographic records and 900,000 holdings records for newspaper originals, microfilm masters, and copies created by the legacy United States Newspaper Program -- formed the initial dataset for ingestion and testing of the Library repository architecture and access capabilities. In addition, each NEH awardee submitted digital assets (approximately 26,000 pages) from their own award activities conforming to LC technical requirements for the initial Web site launch in October 2006. This data was ingested into the preservation architecture and provided a robust dataset for development of the access user interface. The Library also entered into an agreement with ProQuest Information and Learning to acquire 82,000 pages of the *New York Tribune* to incorporate into the NDNP repository in 2007. This material will be digitized from ProQuest microfilm holdings by ProQuest to meet NDNP specifications.

The OSI-managed Repository and Interface Development Group produced several iterations of the repository and dissemination interfaces over the course of FY06, undergoing formal usability testing, quality assurance procedures, and successful ITS security certification. The full repository and browser applications, initially developed in the Office of Strategic Initiatives' Repository Development Center (RDC), were transferred to a secure public-access production environment supported by ITS for permanent long-term use. The target date for a public "beta" Web site is October 2006. For testing purposes, the system will be deployed in a beta version in mid-October 2006 to NEH, LC and all awardee campuses until mid-2007 when it will be made available to the general public.

In keeping with the collaborative nature of the program, NDNP staff visited award sites this year to review production environments and met with project staff. Site visits included Library of Virginia, University of California – Berkeley, University of Florida, University of Kentucky, and University of Utah. NDNP representatives also participated in a number of outreach efforts, participating in and presenting papers at a number of conferences, including the International Federation of Library Associations and Institutions (IFLA) Newspaper Section annual meeting in Salt Lake City, Utah. The Library of Congress sponsored, with the National Library and Archives of Canada and the University of Utah, a 2-day seminar focusing on newspaper digitization and the impacts of online access. More than 10 national libraries and numerous US and Canadian institutions participated in this seminar. NDNP hosted a full panel discussion of the program, including an NEH/LC presentation on preservation

planning and the long-term sustainability aspects of the program, as well as perspectives from several awardees (California, Kentucky, and Utah).

In addition to face to face personal outreach and to encourage discussion and consideration of NDNP technical specifications throughout the digital preservation and newspaper library communities, the Library sponsored publication of several articles highlighting additional details of the current technical requirements. These publications included an article on technical format validation strategies in the e-journal *D-Lib Magazine* and a commissioned report by Xerox Global Services on the development of a JPEG2000 profile specific to NDNP content.

Based on the experiences of the development phase and additional environmental developments, NEH and LC updated, revised and published program and technical guidelines to clarify NDNP requirements for new award applications. Technical guidelines are posted on the Library's NDNP Web site. NEH issued a call for proposals in August 2006 and plans to make up to 10 additional 2-year awards in June 2007.

### **Preservation Research and Testing Division**

The Preservation Research and Testing Division conducts original research to advance preservation of the Library's collections. From a material-science perspective, the Library's collections are composed of traditional, audio-visual, and digital objects based on their composition, properties, and use. To extend the useful life of these objects, research projects involve using advanced analytical instrumentation to investigate materials composition, aging properties of collections and the materials used to house them, deleterious or beneficial effects of environments in which collections are stored, and the conservation treatments used to preserve them. The Division's programs focus on digital, audio-visual, and traditional materials, as well as assure quality control of materials and procedures, develop specifications and standards, undertake forensic analyses to identify compositions, characterize effects of natural and accelerated aging, and develop testing and safety protocols.

#### **Digital Media Research Program:**

##### **Longevity of CDs and DVDs**

The Digital Media Research Program has primarily focused on two on-going projects that evaluate physicochemical degradation reflected by digital error rates, which resulted in 821 analyses. The CD-Audio Media Natural Aging Project, which monitors the aging properties of digital media in permanent storage under ambient conditions at the Library, has now been in progress for nine years. Closely related is the CD-Audio Media Accelerated Aging Project, which evaluates the effect of accelerated aging over a range of temperature and relative humidity on disc longevity. Two large project reports were published internally in 2005, and the Division is currently refining them for posting on the web and for publishing elsewhere.

A new research project is being developed based on the hypothesis that there are chemical indicators that can be used to predict life expectancy of optical discs. This project involves performing analyses of discs from the two above projects, and performing other experiments, to determine the physicochemical characteristics and mechanisms of degradation using advanced instrumental analysis techniques including FT-IR, SEM-EDS, and others. The results will provide data regarding how and why the degradation occurs that causes increases in the digital error rates so that a predictive model can be developed to forecast the life expectancy of optical media, determine optimum storage conditions, and develop a pilot program to integrate best practices into the Library workflow.

An on-going collaboration with the Information Technology Division of the National Institute of Standards and Technology (NIST) was completed in 2006. This collaboration resulted in new data regarding test protocols ([www.itl.nist.gov/div895/loc/index.html](http://www.itl.nist.gov/div895/loc/index.html)) and in the formation of the

Government Information Preservation Working Group (GIPWoG ), which meets semi-annually to discuss preservation of CD and DVD optical discs. NIST recently passed leadership for the GIPWoG to the Johns Hopkins Applied Physics Laboratory, which will continue to work with PRTD and the Optical Disc Testing Association to develop archival quality optical media.

### **Digital Data Archiving Program**

A goal of the Division is to develop a searchable relational database for all LC users to document all preservation treatments and chemical/physical analyses and tests that are performed on collection objects. The first step has been the development of a testing database, which includes searchable parameters regarding vendors, commercial product designations, test results, and other data for housing materials. Test data from years prior to the inception of the database is being added to make search results as comprehensive as possible. In fiscal 2006, 726 new records from current testing, old testing, and from the digital media Natural Aging Study were added.

The Division is digitally documenting two LC collections that are important in preservation research and testing. One is the Forbes Pigment Collection, which contains digital microscopy photographs and a variety of spectra of the pigments. A second is the TAPPI Fiber collection, which contains digital polarized light microscopy photographs and SEM-EDS spectra of the fibers. In fiscal 2006, 60 polarized light microscopy images and 80 SEM-EDS spectra were added to the database.

### **Audio/Visual Media Research Program:**

#### **Magnetic Media Identification and Deterioration**

This research program focuses on the causes of degradation of magnetic media (film and tape), to develop approaches for preservation treatments and for sampling collections for chemical species that potentially can be used to predict the state of deterioration of the media. The Gel Permeation Chromatography of Magnetic Media Polymers Project focuses on “sticky shed syndrome” determine the cause of the phenomenon and its treatment. A new state-of-the-art high-temperature gel permeation chromatograph (HT-GPC) is providing quantitative data, and 285 experiments were performed to optimize instrumental conditions, develop the methodology, and perform materials analyses.

Closely related is the Direct Analysis in Real Time Mass Spectrometry (DART-MS) of Magnetic Media Project, which has as its goal performing “fingerprint” analysis of the magnetic media analyzed by HT-GPC above to develop quick diagnostic methods for analyzing media collections and environments. In fiscal 2006, 240 experiments were conducted to optimize conditions and define how the instrument can be used for non-destructively characterizing magnetic media.

### **Traditional Media Research Program:**

#### **Forensic Analytical Services Program**

The Division conducted over 2500 physical and chemical analyses of a variety of materials brought to the lab by curators and conservators to identify and characterization unknown materials. Advanced analytical instrumentation used in this program includes a FT-IR microscope, scanning electron microscope with energy dispersive x-ray spectroscopy (SEM-EDS), x-ray fluorescence spectrometer (XRF), digital polarized light microscope, digital fluorescence microscope, and a Direct Analysis in Real Time mass spectrometer (DART-MS). Highlights include a collaboration with the LC Kislak fellow in analysis of the Kislak collection, which suggests that some items have surface residues of possibly human fluids that need to be further investigated to develop special preservation strategies; research to identify dyes and other substances on the Waldseemüller map and other collection items; analysis of a map of question origin; identification of pigments and adhesive used in 18<sup>th</sup>-19<sup>th</sup> century Chinese costume paintings on pith; characterization of charcoals used in drawings by Joseph Pennel; and coatings on book-cloth under consideration for use in constructing protective enclosures for items in the Minassian Collection.

### **Longevity of Paper**

This research program is currently focused on aging and analysis of paper, having two on-going research projects and a new one. The ASTM-sponsored 100-year project on the Natural Aging of Papers Project is continuing in collaboration with four other laboratories and 10 libraries across the US and Canada, including NARA, IPI, FPL, and CCI. The next group of material for analysis is scheduled to arrive during the summer of 2008.

The on-going Accelerated Aging of Papers Project builds on previous research that identified chemical decomposition products from accelerated aging tests that are most closely related to products from natural aging. Current research focuses on determination of degradation products formed from experiments performed at just-above-ambient temperatures, bridging the gap between natural aging and higher temperature accelerated aging. Methods using ion chromatography (IC) for determination of small carbohydrate fragments from cellulose were refined in collaboration with a scientist from the University of Maryland-Baltimore County.

A new project, the Direct Analysis in Real-Time Mass Spectrometry (DART-MS) of Paper, develop analytical methodology that will incorporate direct sampling, analysis, and chemical fingerprinting of paper that has been subjected to natural and accelerated aging, and to mass deacidification processes, to provide an approach for quickly evaluating the degradative state of paper collections and their environments. In fiscal 2006, 154 experiments were conducted to optimize conditions and define how the instrument can be used for the analysis of paper-based materials.

### **Micro-Spectrophotometric Measurement of Fading Project**

A new research project is underway to quantitatively measure fading of pigments, inks, and other materials using a non-destructive micro-spectrophotometer. A total of 8492 experiments were performed to fully characterize the instrument and the methodology.

### **Iron Gall Ink Stabilization Project**

This on-going project is to determine the chemical mechanism(s) for deterioration of paper that results from iron gall ink and to develop stabilization treatments. Extensive experimental data was obtained in 2005, and work performed in fiscal 2006 involved using advanced statistical tools to perform correlation testing of the data and to obtain an additional 215 data sets using micro-spectrophotometry. Results were presented at the Institute for Paper Conservation Fifth Annual Conference in Edinburgh, Scotland, and a paper will appear in the conference proceedings.

### **Detrimental Effects of Chemical Migration Project**

This project determines the adverse effects on the collection of long-term contact with poor quality housing materials through migration of degradation products or color bodies. Advanced analytical instrumentation including an automatic pH titrator and a colorimeter/spectrophotometer are used to quantitate the effects. The first phase of the study, completed in 2005, was to gather preliminary data on the aging behavior of a small set of paper and boards to select appropriate test samples and detector strips. The second phase of the study, which resulted in 2052 analyses in fiscal 2006, was to examine the effects of binder boards of various colors, thicknesses, and chemical compositions on a selection of detector strips. Data analysis is currently underway.

### **Pressure-Sensitive Adhesive Inventory Control and Security Devices Project**

This research project identifies adverse effects from pressure-sensitive adhesive labels on different materials so that a "universal" label can be specified for use in bar-coding and labeling non-book and special collection materials. This project addresses a concern of the LC Joint Issues Group on Labeling (JIG-L), whose charge is to improve and streamline the marking and labeling of all formats received by the Copyright Office and the Acquisitions Directorate. In fiscal 2006, 1760 analyses were performed

using a colorimeter/spectrophotometer, which will provide data for both revising current LC Specifications and developing a new one.

### **Zeolite Efficacy Project**

The Nielsen-Bainbridge Company supported a research Fellow to investigate the use of zeolite molecular sieves as an adsorbent in housing materials to adsorb and trap pollutants in collection storage environments. Research involved performing 1319 experiments using ion chromatography (IC), and results were presented at the American Institute for Conservation 34<sup>th</sup> Annual meeting in June, 2006, and are being prepared for publication. Findings indicated that zeolite containing materials absorbed and trap pollutants faster, although not necessarily any better, than non-zeolite materials.

### **Environmental Control and Monitoring of Treasure Cases and Vaults Program**

The Division maintains, services, and advises on the construction of highly sophisticated temperature and humidity controlled chambers and display cases. The Division remotely monitors conditions in the Top Treasure Case, the Top Treasure Vault, and the Gutenberg and Mainz Bible cases, and conducts bimonthly on-site inspections. In fiscal 2006, the Division facilitated and supervised 62 repairs and maintenance services to the cases.

A new initiative that was begun in 2005 and continues in 2006 involves design and manufacture of the Waldseemueller map encasement. Engineers and designers from NIST who built the display cases for the Charters of Freedom at the National Archives are working with LC to build an encasement for permanent storage of the Waldseemueller map. Specifications for the encasement involve using state-of-the-art materials and micro-analytical instrumentation for maintaining and monitoring the map's environment.

The expertise of the Division in environmental control and monitoring was recognized by the Governor of Pennsylvania who invited the Division to advise them on environmental control of their new special library that will house their collection of Benjamin Franklin papers, which are in an advanced stage of brittle book syndrome.

### **Quality Control and Assurance Program**

#### **Capitol Visitors Center Materials Testing Project**

The collaboration between the Division and NARA on the analysis of all materials to be used in display cases in the new Capitol Visitors Center continued. This work, which resulted in 102 analyses, involved using an electrochemical test—the Oddy Test—to predict which materials will be acceptable for display housing of collection materials.

#### **Properties Testing**

The Division's Quality Control and Assurance Program ensures that collection items in all formats are housed only in the highest quality materials to minimize deleterious environment effects on the collection. Materials procured through the Preservation Supply Catalog, and by individual divisions, are required to meet the Division's specifications and be subjected to rigorous testing prior to acceptance. Advanced analytical instrumentation used in this program include a tear tester, bending resistance tester, brightness meter, rub tester, abraser, fold endurance tester, densitometer, tensile energy and strength tester, automatic pH titrator, Fourier Transform infrared (FT-IR) microscope, and aging ovens. In fiscal 2006, 87 items composed of various materials were characterized, including paper, card, board, book-cloth, plastics, film, and others. These materials are evaluated for their suitability for storage based on multiple parameters, constituting a total of 1587 tests.

#### **Mass Deacidification Quality Control and Assurance Program**

This specialized quality control and assurance program provides independent quality control and quality assurance (QC/QA) analyses of the LC mass deacidification project that uses the "Bookkeeper" process

developed by Preservation Technologies, L.P. Advanced instrumentation including an automatic titrator and an inductively-coupled plasma optical emission spectrometer (ICP-OES) are used in the analysis of test books, test papers, and research samples that can provide an evaluation of the technology. In fiscal 2006, 452 analyses were conducted.

### **Safety Assurance Program**

The Division is periodically called upon to perform analyses of materials that might potentially pose a health and safety risk to users, to help with abatement of potential hazards to collection materials, and to otherwise provide leadership in LC health and safety initiatives. In fiscal 2006, the Division identified the presence of uranium in the Dayton C. Miller Flute Collection and made recommendations regarding safe handling procedures. The Division also provided the vacuum facility and other resources for abating a major pest infestation of a large book collection. The Division developed new strategies for best practices in preservation cleaning of vinyl and other audio records, and is working with Conservation to develop a strategy for addressing mold in paper and other collections.

### **Standards and Specifications Program**

A Division staff member continues to serve as Chair of the ASTM D14.50 task group on Hot Melt, Pressure-Sensitive, and Archive Adhesives, which is part of the D14 Adhesives Committee. Revisions to standards D3121 and D6463 were successfully balloted and approved, which pave the way for standardization of test methods among various other ASTM committees. Other recently balloted standards have inadequate Precision and Bias (P&B) statements, and the Chair will be leading a new initiative to formalize and standardize the way that P&B statements are written to ensure that all standards provide consistent and appropriate repeatability and reproducibility data. The Chair continues to direct work on the development of two new standard specifications and a test method, and is collaborating with scientists from the National Archives and Records Administration (NARA), Yale University, New York University, Forest Products Laboratories, and technical representatives of 3M Company, Flexcon, Data2, Avery, Gaylord, Computype, and Watson Label Products, to codify requirements for permanent archival-quality label stock.

Internally, the Specification Discussion Group addressed the revision of the PRTD specifications for stiffness and smoothness of card and board stock, and for corrugated board products used in pre-made boxes and boxes made by the automated box tester in the Binding and Collections Care Division. Scientists at the National Archives and Records Administration (NARA) collaborated with PRTD in an interlaboratory study to compare testing results from both labs, which are being used to help evaluate and revise the specifications.

### **Infrastructure Support Program**

As part of its mission, PRTD is responsible for assessing technology to ensure the continued availability of the permanent research collections. This includes working closely with Conservation, other offices of the Library, and the AOC to assure appropriate environmental conditions for the display, housing, and storage of all collection materials. To accomplish this mission, in fiscal 2006 the Division made quality assurance recommendations to the AOC regarding materials to be used in the larger physical plant including on-campus Secure Storage Facilities and off-campus storage facilities such as Ft. Meade. Such recommendations included interior latex wall paints, floor coatings, fireproofing materials, and others. The Division worked on the NFPA 909 Committee to address global preservation strategies in terms of prevention of fire, water, and smoke damage to collections. A new initiative in fiscal 2006 involves collaborating with Conservation to provide advice to the AOC and the Library regarding the design and implementation of the new Secure Storage Facilities in regard to fire-protection and collection environment.

More new infrastructure initiatives were begun in fiscal 2006 to improve the Division's ability to evaluate existing preservation strategies and initiate and conduct original research, testing, and technology assessment. Major restructuring of the laboratory space was begun, including removal of 25 year old

equipment and purchasing new instruments and other technologies to bring the laboratory to the state-of-the-art. Applications of new technologies for use in forensic analysis of collection materials and environments, including Solid Phase Micro Extraction (SPME), hand-held X-ray fluorescence, and digital imaging were identified and investigated. New digital forms and procedures for submission of electronic requests, maintaining electronic reports, and tracking data linked to research and testing of collection objects and housing materials were created. The PRTD statistics and other information were added to the annual report in a networked location, and a detailed compilation of services provided by PRTD was added to the Annual Call. Scientific research laboratory best practices guidelines were drafted to address scientific research, scientific ethics, chemical hygiene, and others to maximize efficiency, quality control, health, and safety. An Excel database to track Quality Control/Quality Assurance data for the Mass Deacidification Program was created, and a new quality control/quality assurance procedure for use by both the Library and the contractors was developed and implemented. Recommendations regarding new sources of funding for internships and local colleges/universities that could become involved in collaborations were made.

### **Fellows and Interns Training Program**

The Division hosted three interns and fellows. HACU Fellow Michelle Ann Sanchez, who will be earning her BS in Chemistry from Regis University, worked on the Micro-Spectrophotometric Measurement of Fading Project. Nielson-Bainbridge Fellow Cindy Connelly Ryan completed an initial phase of the Zeolite Efficacy Project. University of Michigan Alternative Spring Break Intern Zhengfei Liu initiated the development of a relational database for the Mass Deacidification Quality Control and Assurance Program.

### **Mass Deacidification Program**

To extend the life and utility of collections through appropriate treatment and technologies, the Directorate deacidified 298,826 books and 1,069,500 document sheets as part of its 30-year initiative to stabilize over 8.5 million general collection books and at least 30,000,000 pages of manuscripts. Deacidification is an economic approach to keeping books and manuscripts available in usable form. It results in extending the useful life of acidic and slightly brittle paper by a minimum of 300%. This assures in most cases that treated books will survive for 300 to 1000 years rather than becoming extremely brittle, degraded, and unusable in less than a century, requiring much more expensive reformatting at over 600% of the cost of deacidification. The technology thus achieves economies of scale and future cost-avoidance as a dramatic preventive preservation activity.

With a successful mass deacidification program in place since 1995, the Library has to date extended the useful life of nearly 1.7 million books and 4 million sheets of manuscript materials from the national library collections. The Library initiated a new 5-year deacidification services contract that will result in saving 1,250,000 books and 5+ million sheets of original manuscript materials.

Achieving another important objective of its Thirty Year (One Generation) Mass Deacidification Plan, the Library was able to make full use for the fourth year of a single-sheet treatment cylinder that is operated onsite in the chemistry research and testing laboratory in the Madison building. On average, over 4,000 pages of manuscripts are deacidified each day. This Bookkeeper single-sheet treater and an associated spray booth meet all of the Library's published technical, environmental, health, and safety requirements for mass deacidification. The non-book treatment system is operated and maintained by the contractor, enabling the Library to obtain onsite deacidification services to ensure the longevity of unbound collections materials that are too invaluable to be transported to the vendor plant near Pittsburgh, where the Library's books continue to be deacidified.

With oversight and training provided by the Library's preservation staff, a contract staff of fifteen persons handles the selection, charging-out, packing, shipping, and receipt of about 5,000 books each week, while two additional contract personnel operate the onsite treater that results in weekly deacidification of nearly 20,000 sheets of manuscripts.

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Paris, le 27 juillet 2006

Le Président

Monsieur le président, *cher ami*,

Dans la perspective du prochain Congrès de la Fédération qui se tiendra à Séoul, je souhaite vous faire part à nouveau de l'indéfectible attachement de la BnF à l'IFLA. Nombreux sont les conservateurs de la BnF qui sont ou ont été membres de ses diverses sections ; nous hébergeons en outre, vous le savez, le programme fondamental consacré à la Préservation et à la Conservation du patrimoine documentaire (IFLA-PAC).

Dès l'origine, la particularité de ce programme, composé d'un centre international et de plusieurs centres régionaux, a consisté dans un fonctionnement en réseau. Ainsi le centre international PAC, rattaché à la délégation aux relations internationales de la BnF, accueille-t-il en même temps le centre régional pour l'Europe de l'Ouest.

En novembre 2005, la convention de coopération relative au PAC entre la BnF et l'IFLA a été renouvelée pour trois ans. J'ai également eu le plaisir d'accueillir, en mars 2006, le Symposium international sur « la Conservation en 3D » organisé par le PAC. A cette occasion j'ai été heureux et fier de saluer les directeurs des centres régionaux réunis pour la première fois à Paris.

Dr Alex Byrne  
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J.

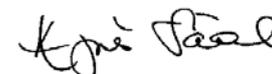
Christiane Baryla, nommée depuis mars 2006 à la direction du programme, m'a fait part de son souhait de donner une impulsion nouvelle au volet européen du centre, en séparant notamment désormais ses actions de celles relevant du champ de compétence du comité français du Bouclier Bleu s'agissant de la gestion des plans d'urgence et des catastrophes dans les bibliothèques.

Christiane Baryla souhaite d'autre part voir attribuer un nouveau champ d'excellence au centre régional de Paris autour de la thématique de la conservation des données numériques.

Je suis convaincu que la Bibliothèque nationale de France, forte de sa riche expérience dans ce domaine - qu'il s'agisse par exemple de sa bibliothèque numérique en ligne Gallica ou du Consortium international pour la préservation de l'Internet qu'elle pilote depuis 2003 - peut jouer le rôle d'un centre d'excellence sur le plan européen et je soutiens avec enthousiasme une telle proposition, apte à renforcer encore les liens privilégiés qui existent déjà entre la BnF et le programme PAC. Il me semble aussi que cette orientation répond aux soucis de l'IFLA de voir les centres régionaux se doter d'un champ de compétence clairement identifié, mais aussi de renforcer au sein du PAC l'étude du vaste champ que recouvrent la conservation et l'archivage des données numériques. Avant la fin de l'année 2006, le centre régional aura ainsi créé un site web, marquant une première étape dans la constitution d'un réseau européen d'échange d'informations et d'expériences.

Je vous informe enfin que, dans la suite logique des travaux entrepris lors du colloque de mars 2006, j'ai accepté l'organisation à la BnF, en avril 2007, d'un Symposium international sur la conservation des données numériques.

Je me tiens à votre disposition pour des échanges plus approfondis sur ces orientations et je vous prie d'agréer, monsieur le président, l'expression de ma meilleure considération et mon plus amical souvenir.

 Jean-Noël Jeanneney  


Copies:  
-Claudia Lux, présidente élue (2007-2009)  
-Peter Lor, secrétaire général