

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Mold Remediation in the
University of Illinois' Rare Book
& Manuscript Library:
Our Successes & Compromises



www.uiuc.edu

Presentation Overview

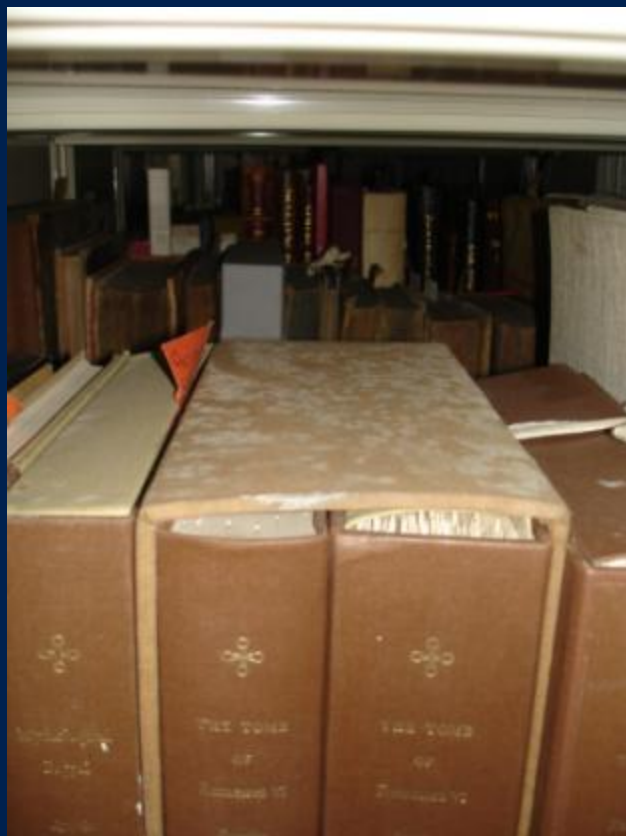
- The Discovery
- Assessing the Damage
- Evaluating Recovery Options
- Setting up Working Procedures with Vendor
- The Cleanup
- Facilities Upgrades
- Post-Vendor Work on Collections



The Discovery



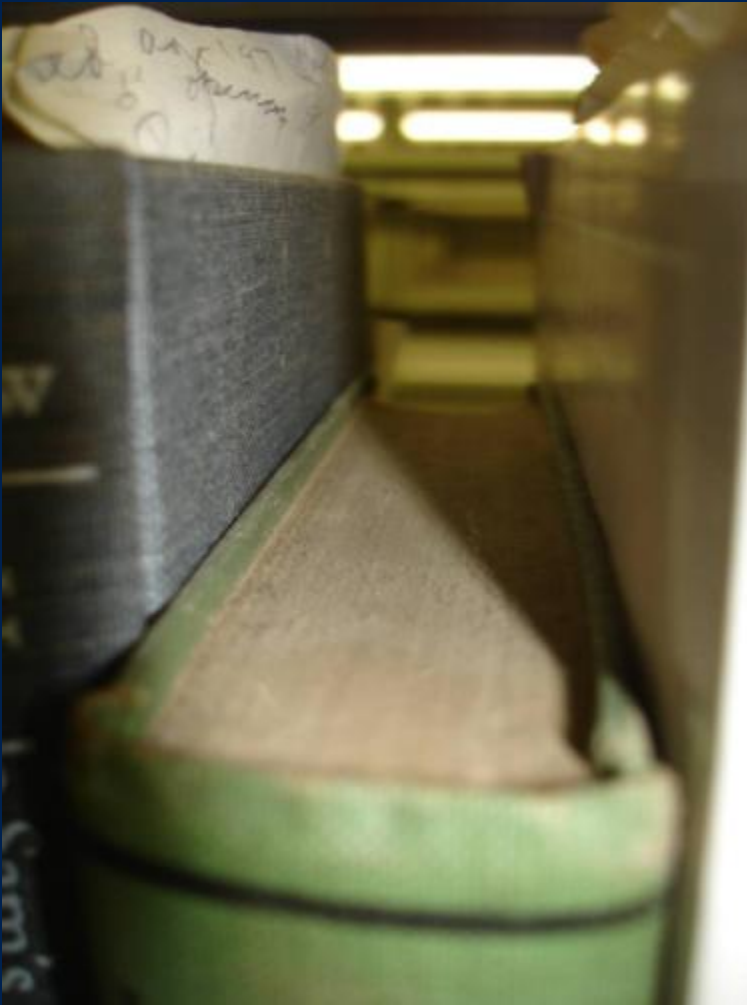
The Discovery



Assessing the Damage



Evaluating Recovery Options



Evaluating Recovery Options

The screenshot shows a web browser window displaying the BMS CAT website. The browser's address bar shows the URL <http://www.bmscat.com/services/services/mold-remediation/70>. The website features a navigation menu with links for home, services, special technologies, response centers, priority response, media room, our company, and contact us. The main content area is titled "Mold Remediation" and includes a search bar, a list of services, a detailed description of mold remediation, and a section on reducing the "Fear Factor".

Services

- [Fire & Smoke](#)
- [Water](#)
- [Moisture Control / Dehumidification](#)
- [Mold Remediation](#)
- [Hurricanes & Storms](#)
- [Project Management](#)
- [Priority Response](#)

Special Technologies

- [Healthcare, Hospitals & Labs](#)
- [Document & Media Recovery](#)
- [Indoor Air Quality - SBS](#)
- [Airlines / Transportation Disasters](#)

Industries

- [Commercial](#)
- [Industrial & Manufacturing](#)

Mold Remediation

There are over 100,000 known living species of fungus. Mycologists estimate that there may be as many as 200,000 more unidentified species. The spores of fungi are always present in the air and on objects. They lie dormant, waiting for the perfect conditions of high humidity and warm temperatures to grow. Once growth begins, it amplifies quickly devouring everything in its path and using the item it is growing on and dust as a food source. Since microbial growth is exponential, quick response is imperative. That's when you need BMS CAT®!

Mold - Reducing the 'Fear Factor'

Haven't these organisms been around since early recorded history? Some would say the 'fear factor' originated in the media or as a self-perpetuating phenomenon that began in the legal system. Regardless of the primary cause, the fact still remains that indoor mold contamination has the attention of the public and professional community for very real reasons.

Understanding that all building materials are naturally contaminated with mold spores explains how fungal growth can occur within buildings where materials have become wet. Many common building materials may serve as a food source for fungi. Books, papers, gypsum boards, and wood products are such sources.

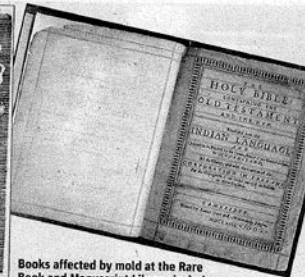
Our success stories

- [Understand priority response](#)
- [Make an assignment](#)
- [Contact us](#)

800-433-2940
24 hour response center

Evaluating Recovery Options

CHICAGO SUN TIMES 2/8/08



Books affected by mold at the Rare Book and Manuscript Library include a German Emblem book (left) and the first Bible printed in the Western Hemisphere (right).

Mold hits U. of I. Rare Book Library

URBANA | Collection worth more than \$1 billion

BY DAVE NEWBART
Staff Reporter
dnewbart@suntimes.com

The gem of the University of Illinois' world-renowned library — its Rare Book & Manuscript Library — is infested with mold and will be closed down for several months.

About 15,000 books in the collection have mold, library officials said. But the number could be higher, because that includes only what's visible.

"It's a significant portion of the collection," said Tom Teper, associate university librarian for collections. The 300,000-piece collection is worth more than \$1 billion and includes the papers of Carl Sandburg and H.G. Wells, among many other rare books and manuscript.

The Rare Book library will close Feb. 25 so an outside firm can undertake a painstaking cleanup of each item, as well as shelves, walls, floors and the ventilation system.

The cleanup could cost as much as \$800,000, officials said. The library is scheduled to reopen May 5.

The outbreak was discovered



Letters and manuscripts by Carl Sandburg and a first edition of a John Steinbeck book also are affected by mold.

to control the temperature and humidity inside the room.

A statement posted on the Rare Book Library's Web site says the problem was caused by "substandard environmental conditions in our facility where treasures of the University are housed."

The statement said the collections deserve a "proper, secure, environmentally appropriate building of their own."

Irreplaceable collection

While erecting a new build-

ing the school has been advised that the problem does not pose a significant health risk.

In addition to handwritten letters and manuscripts by Carl Sandburg, the library has recordings of his radio broadcasts. It also has one of the 10 first editions of John Steinbeck's *The Winter of Our Discontent*. Steinbeck gave Sandburg the book as payment for a poker debt.

The library has one of the largest collections of incunabula — European books produced before 1501, including pages from the Gutenberg

Evaluating Recovery Options

United Press International - NewsTrack - Top News - U of I rare books plagued with mold Page 1 of 1

United Press International.
100 Years of Journalism Excellence



Top News

U of I rare books plagued with mold

Published Feb. 8, 2008 at 7:39 PM

URBANA, Ill., Feb. 8 (UPI) — The University of Illinois' prized Rare Book & Manuscript Library is being shut down temporarily due to mold infestation.

Approximately 15,000 of the 300,000 books in the university's library, have grown mold, the Chicago-Sun Times reported Friday.

The collection is said to be worth more than \$1 billion.

"We are really looking to protect this collection that is irreplaceable and really a gem in the state of Illinois. People come from all over to look at this material," Associate University Librarian Tom Yeager said.

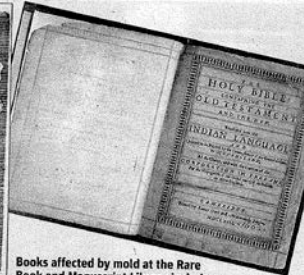
The facility is set to be shut down Feb. 25 so the structure and its contents can undergo an \$800,000 cleaning.

The mold was reportedly first noticed in November after high humidity outdoors caused moisture and temperature problems inside the building which has a 25-year-old ventilation system.

© United Press International. All Rights Reserved.
This material may not be reproduced, redistributed, or retransmitted in any form.

http://www.upi.com/NewsTrack/Top_News/2008/02/08/u_of_i_rare_books_plagued_with... 2/10/2008

CHICAGO SUN TIMES 2/8/08



Books affected by mold at the Rare Book and Manuscript Library include a German Emblem book (left) and the first Bible printed in the Western Hemisphere (right).

Mold hits U. of I. Rare Book Library

URBANA | Collection worth more than \$1 billion

BY DAVE NEWBART
Staff Reporter
dnewbart@suntimes.com

The gem of the University of Illinois' world-renowned library — its Rare Book & Manuscript Library — is infested with mold and will be closed for several months. About 15,000 books in the collection have mold, library officials said. But the number could be higher, because that is all that is visible. "A significant portion of the collection," said Tom Yeager, associate university librarian for collections. The 300-piece collection is worth more than \$1 billion and includes the papers of Carl Sandburg and H.G. Wells, along with many other rare books and manuscripts.

The Rare Book library will be closed Feb. 25 so an outside firm can undertake a painstaking cleanup of each item, as well as shelves, walls, floors and the ventilation system.

The cleanup could cost as much as \$800,000, officials said. The library is scheduled to reopen May 5.

The outbreak was discovered



Letters and manuscripts by Carl Sandburg and a first edition of a John Steinbeck book also are affected by mold.

difficult to control the temperature and humidity inside the room.

A statement posted on the Rare Book Library's Web site says the problem was caused by "substandard environmental conditions in our facility where treasures of the University are housed."

The statement said the collections deserve a "proper, secure, environmentally appropriate building of their own."

Irreplaceable collection

While erecting a new build-

ing the school has been advised that the problem does not pose a significant health risk.

In addition to handwritten letters and manuscripts by Carl Sandburg, the library has recordings of his radio broadcasts. It also has one of the 10 first editions of John Steinbeck's *The Winter of Our Discontent*. Steinbeck gave Sandburg the book as payment for a poker debt.

The library has one of the largest collections of incunabula — European books produced before 1501, including names from the Gutenberg

Evaluating Recovery Options

United Press International - NewsTrack - Top News - U of I rare books plagued with mold Page 1 of 1

United Press International
100 Years of Journalism Excellence

Top News

U of I rare books plagued with mold

Published Feb. 8, 2008 at 7:39 PM

URBANA, Ill., Feb. 8 (UPI) — The University of Illinois' prized Rare Book & Manuscript Library is being shut down temporarily due to mold infestation.

Approximately 15,000 of the 300,000 books in the university's library, have grown mold, the Chicago-Sun Times reported Friday.

The collection is said to be worth more than \$1 billion.

"We are really looking to protect this collection that is irreplaceable and really a gem in the state of Illinois. People come from all over to look at this material," Associate Librarian Tom Teper said.

The facility is set to be shut down Feb. 25 so the structure and its contents can undergo an \$800,000 cleaning.

The mold was reportedly first noticed in November after high humidity outdoors caused moisture and temperature problems inside the building which

© United Press International. All Rights Reserved.
This material may not be reproduced, redistributed, or retransmitted in any form.

U of I rare book library attacked by mold - chicagotribune.com
www.chicagotribune.com/news/nationworld/chi-ap-i-librariumold,1.1257167.story
chicagotribune.com
U of I rare book library attacked by mold

Associated Press
12:28 PM CST, February 8, 2008
URBANA, Ill.

Mold has infested the University of Illinois' rare book library, and officials said the estimated \$800,000 worth of cleaning will force it to close for months.

About 15,000 books have visible mold and more damage may be discovered, university officials said.

Librarian Tom Teper said the 300,000-item collection in the Rare Book & Manuscript Library is worth more than \$1 billion. It includes papers and letters of Carl Sandburg, H.G. Wells and Marcel Proust and first editions of titles by Charles Dickens and Mark Twain.

Exactly which pieces are harmed hasn't been announced, but Teper said Friday that the mold problem "is scattered throughout the collection." He said it appears everything can be restored and there is no health risk.

"We are really looking to protect this collection that is irreplaceable and really a gem in the state of Illinois," Teper said. "People come from all over to look at this material."

The collection, housed in a vault within the school's main library on the Urbana-Champaign campus, has a ventilation system that is more than 25 years old. Controlling temperature and humidity is challenging, Teper said.

Officials said they'll shut down the library Feb. 25 so the books, shelves and ventilation system can be cleaned. The cleanup will be done by an independent company, Texas-based BMS Catastrophe.

Cleaning the rare books will be accomplished by a special vacuum with a filter fine enough to trap mold spores, Teper said.

Teper said the collection is insured. The university administration has supported the cleanup efforts, he said.

The rare book library is slated to reopen May 5.

Vonage
Save up to \$300
a year on your phone bill!
BONUS! FREE Router
Act Now! Get 1 Month Free!

http://www.upi.com/NewsTrack/Top_News/2008/02/08/u_of_i_rare_books_plagued_with... 2/10/2008

On the Net:
http://www.chicagotribune.com/news/nationworld/chi-ap-i-librariumold,1.7677451.print.sto... 2/8/2008

The cleanup could cost as much as \$800,000, officials said. The library is scheduled to reopen May 5.

The outbreak was discovered by "substantial mold" in the facility where the University are housed.

The statement said the collections deserve a "secure, environmentally appropriate building of their own."

Irreplaceable collection
While erecting a new building

Evaluating Recovery Options

United Press International - NewsTrack News - U of I rare books plagued with mold Page 1 of 1

United Press International
100 Years of Journalism Excellence

Top News

U of I rare books plagued with mold

Published Feb. 11, 2008 at 7:39 PM

URBANA, Ill., Feb. 8 (UPI) — The University of Illinois' Rare Book & Manuscript Library is closing its doors to deal with mold problems.

Approximately 15,000 of the 300,000 books in the collection are said to be worth more than \$1 billion.

"We are really looking to protect the library," Tom Teper said.

The facility is set to be shut down by Feb. 25.

The mold was reportedly first discovered in late 2007.

© United Press International. All rights reserved. This material may not be reproduced.

The News-Gazette.com

U's Rare Book Library to close to deal with mold problems

By Todd Hesteker
Published February 9, 2008

URBANA - The Rare Book and Manuscript Library at the University of Illinois fields such treasures as the papers of Carl Sandburg and H.C. Wells, a collection of 16th and 17th century German aviation books, Addison Tiffin, collectors of John Milton and Marcel Proust, and early editions of Shakespeare.

It also has mold, and the library will close at the end of this month to deal with mold problems.

The mold was first discovered in late 2007, said Tom Teper, head of preservation and conservators at the papers of Carl Sandburg and H.C. Wells, a collection of 16th and 17th century German aviation books, Addison Tiffin, collectors of John Milton and Marcel Proust, and early editions of Shakespeare.

"We've been working with administrators to plan a response for this for a while," he said.

The library has 300,000 volumes, in a secure space with its own heating and ventilation system.

"We want to make sure we get any visible mold off the materials, but we also want to get any mold spores that are in the air out of the building," he said.

The Rare Book and Manuscript Library will close Feb. 25 for the cleaning, and it is scheduled to reopen in early May.

DMC Catastrophe, a disaster response company, will handle the cleaning, at a cost not to exceed \$800,000. Teper said the project's office is providing the money. Teper added that university officials are hoping insurance covers a large amount of the cost.

The company will use special vacuums to remove the mold spores, Teper said. Over time, the mold can damage the books.

"Anything's going to be recoverable," he said of the books affected by the mold.

"The collection itself is irreplaceable. There are books in there that are unique in the world," Teper said, adding that the value of the materials has been estimated in excess of \$1 billion. "It's a gem out here in the middle of the state."

The U of I is also looking at long-term solutions to keep the mold from returning, Teper said, adding that the conditions to make it bloom at that moment in time.

Teper said, adding that the library had huge fluctuations in humidity levels, from 14 percent to 78 percent in the course of a year. She said the ventilation system must be replaced or the mold problem will return.

Teper said U administrators have been working with library officials in their own climate-controlled building.

Teper said U administrators have been working with library officials in their own climate-controlled building.

CHICAGO SUN

chicago-sun.com
Uchi-ap-i-librarymold,1,1257167,story

Plagued by mold

University of Illinois' rare book collection to close for months

Approximately 15,000 books have viable mold and more damage may be discovered, university officials said.

Librarian Tom Teper said the 300,000-item collection in the Rare Book & Manuscript Library is worth more than \$1 billion. It includes papers and letters of Carl Sandburg, H.G. Wells and Marcel Proust and first editions of titles by Charles Dickens and Mark Twain.

Exactly which pieces are harmed hasn't been announced, but Teper said Friday that the mold problem "is scattered throughout the collection."

"We are really looking to protect this collection that is irreplaceable and really a gem in the state of Illinois," Teper said. "People come from all over to look at this material."

The collection housed in a vault within the school's main library on the Urbana-Champaign campus, has a ventilation system that is more than 25 years old. Controlling temperature and humidity is challenging, Teper said.

Officials said they'll shut down the library Feb. 25 so the books, shelves and ventilation system can be cleaned. The cleanup will be done by an independent company, Texas-based BMS Catastrophe.

Cleaning the rare books will be accomplished by a special vacuum with a filter fine enough to trap mold spores, Teper said.

Teper said the collection is insured. The university administration has supported the cleanup efforts, he said.

The rare book library is slated to reopen May 5.

Vonage
Save up to \$300
a year on your phone bill!
BONUS! FREE Router
Act Now! Get 1 Month Free!

<http://www.upi.com/NewsTrack>

2/10/2008

<http://www.chicagohome.com/news/nationworld/chi-ap-i-librarymold,1,767451,print.sto...> 2/8/2008

On the Net:
<http://www.chicagohome.com/news/nationworld/chi-ap-i-librarymold,1,767451,print.sto...>

Irreplaceable collection
While erecting a new building, the Rare Book & Manuscript Library at the University of Illinois is closing its doors to deal with mold problems.

Evaluating Recovery Options

United Press International - NewsTrac

News - U of I rare books plagued with mold Page 1 of 1

United Press Intern
100 Years of Journalism Excellence

Top News

U of I rare books plagued w

Published Feb. 21, 2008 at 7:29 PM

URBANA, Ill., Feb. 21 (UPI) — The University

Approximately 15,000 of the 300,000 book

The collection is said to be worth more

"We are really looking to protect the

Librarian Tom Teper said.

The facility is set to be shut dow

The mold was reportedly first

© United Press International. /

This material may not be rep

Feb. 21, 2008

Inside Illinois

PAGE 7

Rare Book and Manuscript Library closes to combat mold

By Roxana Ryan
News Bureau Intern

The UI's prized Rare Book and Manuscript Library will close Feb. 25 to combat a mold outbreak that has spread throughout the vault. There are approximately 300,000 volumes in the collection, which is valued in excess of \$1 billion. The library is scheduled to reopen May 5.

Only a fraction of the items have active mold blooms on them but mold spores have permeated the entire vault, according to Tom Teper, associate university librarian for collections and associate dean of libraries.

According to Teper, mold likely entered the library through the ventilation system, which was installed at the same time the library branch was constructed in the mid-1980s. Teper said the mold was discovered in fall 2007.

"We took advantage of the dry winter climate in Central Illinois to plan our response," Teper said. "We needed to determine how extensive the damage was, plan for recovery operations that would be performed completely by university personnel or assisted by contracted employees, and secure support for the recommended course of action."

Teper said in similar instances, libraries have closed for years to recover a collection. In the UI's case, a slightly more expensive process that requires contracted support was recommended, which has enabled the university to minimize impact on academic needs of students, faculty members and scholars.

Texas-based BMS Catastrophe has been contracted to clean the collection at a cost

course, there is also a significant contribution from the University Library in the form of services and faculty, staff and student time being put into managing the project, completing secondary work to mitigate the risk, and replacing damaged protective enclosures on books and pamphlets."

Teper said BMS Catastrophe began cleaning the ventilation systems Feb. 14. Beginning Feb. 18, the company moved to cleaning books, shelving and storage environment using high-efficiency particulate air vacuums and magnetic cleaning cloths. Cleaning crews will work with personnel from Conservation and Rare Books to ensure that no items are damaged in the process, according to Teper.

Teper said the university has cooperated and supported the cleanup efforts.

"I, for one, have been grateful for the support given to us by the library, campus and university administration," Teper said. "This could be a very demoralizing time, but their timely response has been very heartening. We are beginning this recovery operation and are in discussions about long-term fixes for this problem. This type of recovery operation is the type of project one doesn't want to repeat."

Teper said the collection, which includes paper and letters of Carl Sandburg, H.G. Wells and Marcel Proust and first editions of titles by Charles Dickens and Mark Twain, is irreplaceable and invaluable to the university.

"The collection is a valued scholarly resource — one of the richest in the nation," Teper said. "It attracts scholars from around the world and is part of what makes Illinois

des the papers of Carl burg and H.G. Wells, ig many other rare books manuscript.

the Rare Book library will e Feb. 25 so an outside firm can undertake a painstaking cleanup of each item, as well as shelves, walls, floors and the ventilation system.

The cleanup could cost as much as \$800,000, officials said. The library is scheduled to reopen May 5.

The outbreak was discov-

ADVERTISING. CONTINUED FROM PAGE 6
ing is color-blind," used by the black-owned firm Zebra Associates in a 1970 ad to solicit clients.

The accompanying text makes the case that mass advertising "approaches the Black consumer as if he were somebody's fair-haired boy" and was therefore ineffective with that audience. Zebra, it said, could help "bridge the gap between white advertiser and Black consumer."

This period also brought the promotion of "positive realism" by Tom Burrell, the African-American co-owner of the Burrell-McBain agency. Chambers said. Avoiding the extremes of wealthy black celebrities or destitute ghetto dwellers, Burrell sought to portray blacks who were in the economic middle and "dying to see themselves as

they really are."

His ads showed blacks in everyday situations, brushing their teeth, washing their cars, doing laundry — just like everyone else, except in an African-American context.

Since the "golden age," "what racial changes have occurred within the (advertising) agency business have advanced in fits and starts," Chambers wrote. Blacks remain seriously underrepresented in mainstream agencies even as black athletes, entertainers and music play a larger role in advertisements.

Black-owned agencies continue to do creative work, but also must continue to fight to justify their existence and the necessity of specific advertising aimed at the black consumer market. ♦

Inside Illinois

2008 SPRING PUBLICATION SCHEDULE

Publication Date	Briefs Deadline	Adv. Deadline
Jan. 15	Jan. 9	Jan. 10
Feb. 7	Jan. 30	Jan. 31
Feb. 24	Feb. 13	Feb. 14
March 6	Feb. 27	Feb. 28
March 20	March 12	March 13
April 3	March 26	March 27
April 17	April 9	April 10
May 1	April 23	April 24

<http://www.upi.com/NewsTrack>

2/10/2008

roo.
A s.
Rare Bo
says the p
by "substa
mental condi
city where trea
University are hou
The statement sai
lections deserve a "p
secure, environmentally
appropriate building of the
own."
Irreplaceable collection
While erecting a new build-
ing names from the Gates

can be
/ne-
to trap mold
cleanup efforts, he
library.mold.1.7677451.print.sto... 2/8/2008

Evaluating Recovery Options

United Press International - NewsTrack News - U of I rare books plagued with mold

United Press International
100 Years of Journalism Excellence

Top News

U of I rare books plagued with mold

Published Feb. 20, 2008 at 7:29 PM
URBANA, Ill., Feb. 8 (UPI) — The University of Illinois at Urbana-Champaign has closed its rare book vault to address a mold outbreak. The collection is said to be worth more than \$1 million. "We are really looking to protect this library," Tom Teper said. The facility is set to be shut down for several weeks. The mold was reportedly first discovered in late 2007.

The library has 300,000 volumes in its vault. The mold was discovered in late 2007. The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library has 300,000 volumes in its vault. The mold was discovered in late 2007. The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library has 300,000 volumes in its vault. The mold was discovered in late 2007. The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library has 300,000 volumes in its vault. The mold was discovered in late 2007. The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library has 300,000 volumes in its vault. The mold was discovered in late 2007. The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library has 300,000 volumes in its vault. The mold was discovered in late 2007. The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

Feb. 21, 2008

Rare Book Library closed

By Roxana Ryan
News Bureau Intern

The University of Illinois' prized Rare Book and Manuscript Library vault to combat a mold outbreak that has spread throughout the approximately 300,000 volumes, which is valued at more than \$1 million.

Only a fraction of the collection is scheduled to be reopened. The mold was reportedly first discovered in late 2007.

Tom Teper, associate university librarian for collections and special services, said the library is scheduled to be closed for several weeks.

The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

The library is scheduled to be closed for several weeks. The mold was reportedly first discovered in late 2007.

UIUC Rare Book Library Closes Due to Mold
Page 1 of 2

Posted February 29, 2008.
UIUC Rare Book Library Closes Due to Mold

The University of Illinois at Urbana-Champaign Rare Book and Manuscript Library vault within the main library—closed February 25 to address a mold outbreak. No more than 5% of the 300,000-item collection has visible mold, Associate University Librarian for Collections Tom Teper told *American Libraries*. However, "mold spores permeate the entire vault, having, we believe, been circulated through the HVAC system," he wrote in an e-mail message, noting that the system dates to the mid-1980s.

The mold was discovered in late fall 2007, but library officials delayed action to "take advantage of the dry winter climate in central Illinois to plan our response," Teper explained. "After stabilizing the environment, we needed to determine how extensive the damage was, plan for recovery operations that would be performed completely by university personnel or assisted by contracted employees, and secure support for the recommended course of action."

The library has contracted Texas-based BMS Catastrophe to clean the vault and the collection using high-efficiency particulate air (HEPA) vacuums and magnetic cleaning cloths. The contract limits the total cost to no more than \$800,000. Cleanup will take approximately 10 weeks, with the library tentatively scheduled to reopen May 5. Library staff believe that nothing in the collection is damaged beyond repair, although one type of pamphlet binder and one type of cloth used in clamshells were particularly susceptible to mold and will be replaced.

Posted on February 29, 2008. Discuss.



ALA American Library Association

Page 1 of 1

nois

ON SCHEDULE

Date	Adv. Deadline
Jan 10	Jan 10
Jan 21	Jan 21
Feb 14	Feb 14
Feb 27	Feb 28
March 12	March 13
March 26	March 27
April 9	April 10
April 23	April 24

http://www.ala.org/ala/online/currentnews/newsarchive/2008/february2008/ALA_print_label_3/6/2008

2/10/2008

On the Net:
http://www.chicagotribune.com/news/nation

http://www.upi.com/NewsTrack

2/10/2008

While erecting a new building...

On the Net:

http://www.chicagotribune.com/news/nation

library.mold.1.7677451.print.sto... 2/8/2008

Evaluating Recovery Options

BMS cleaning (campus)	\$800,000
equipment (dehumidifiers/vacuum/ dataloggers) (library)	\$4,500
stabilization supplies (library)	\$4,000
replacement enclosures (library)	\$37,500
staff time (equivalent \$) (library)	>\$70,000
Total	\$916,000



Setting up Working Procedures with Vendor

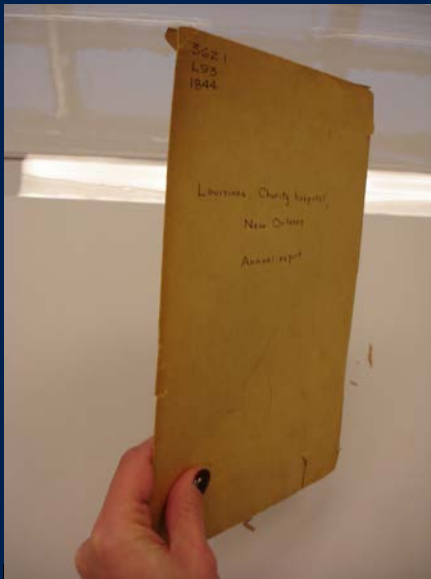


Setting up Working Procedures with Vendor



Setting up Working Procedures with Vendor

- ☺ Stable and retained
- ☹ Potentially unstable – use caution (retained or discarded per UIUC staff only)
- ☹ Unstable (discard by BMS)



Envelope (many formats) ☹



Pamphlet Binders (archival materials) ☺



Plastic Bags ☹



Setting up Working Procedures with Vendor

2.9.2 Guidelines for Repairs and Stabilization Techniques

a. String Ties

For items that have broken or very weak cover-to-text attachment or have text blocks that are not intact and cannot be tipped in, string ties are used to hold the book together until a more permanent repair can be performed.

Tools and Materials Required:

Scissors
Cotton twill tape

Directions:

1) Start with the book laying flat in front of you and wrap the cotton twill tape around the height of the book starting at the top of the front and wrapping around to the back.

2) Bring the twill tape half way down the front board, to the right of the free end and then twist the twill tape so that two tapes cross, leaving the free end at the fore edge of the book. Continue to wrap the long end of the twill tape around the spine edge and back of the book, to meet the free end at the fore edge. Cut the twill tape at a length sufficient to tie a bow.



3) Tie a bow on the fore edge (top edge is also OK) and check that the twill tape is tight enough to secure the book without pinching any fragile pages or cover materials.



The Clean-up

Challenges/Issues

Security

Compact shelving

Lack of electricity in vault area

No elevator between the two levels

Various non-book formats (art, A/V, sculpture, etc.)

Nature of materials

Age

Fragility

Incunabulum

Vellum distortion



The Clean-up



The Clean-up



The Clean-up



The Clean-up

The Project In Numbers

3 months of cleaning

300,000+ items vacuumed

31, 000 yards of string tie

6,200 archival pamphlet binders

1,100 pairs of gloves

1,000 sheets of binder board

800 Tyvek suits

200 pounds of microfiber cloths

25 extension cords

20 gallons of Microban

12 Microtrap 2000 Air Filtration units

8 Nilfisk HEPA vacuums



Facilities and Space Upgrades

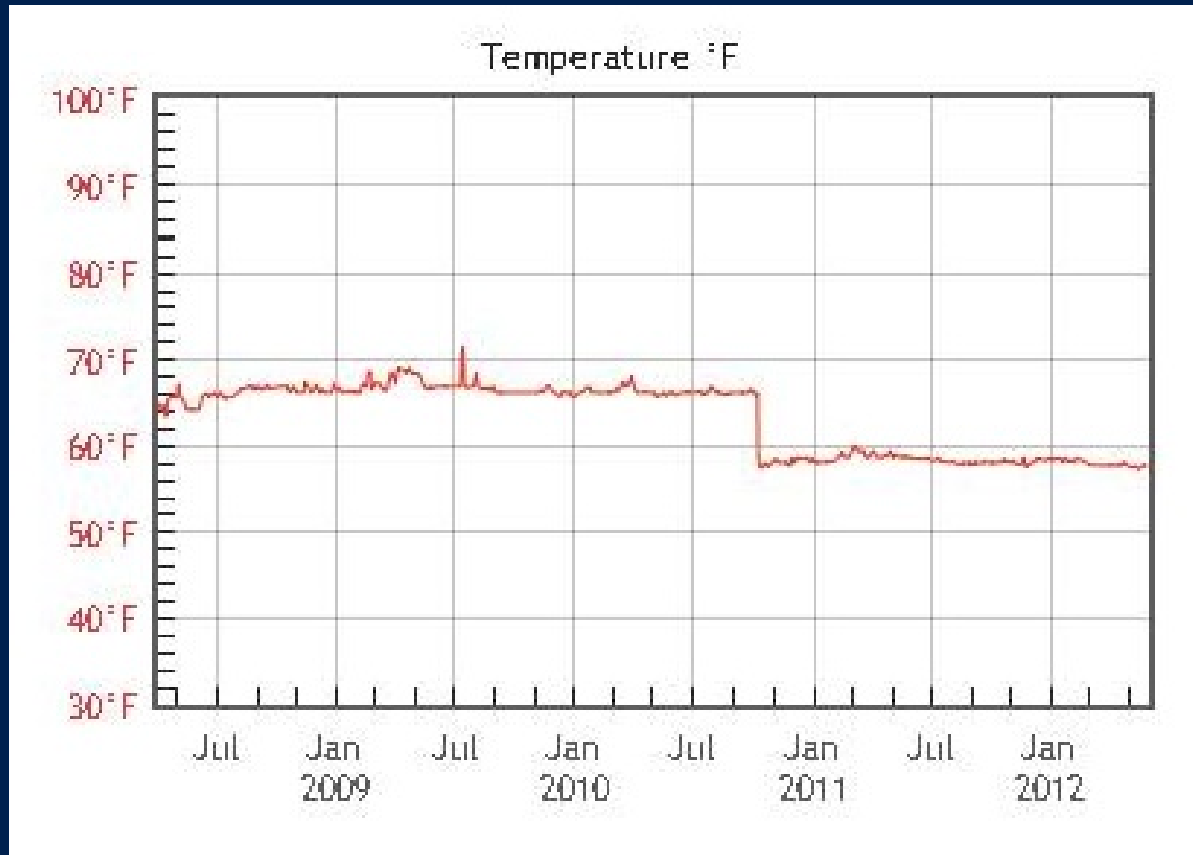
In 2009 started complete HVAC overhaul to get tighter controls – completed in 2011.

New layout and systems offer:

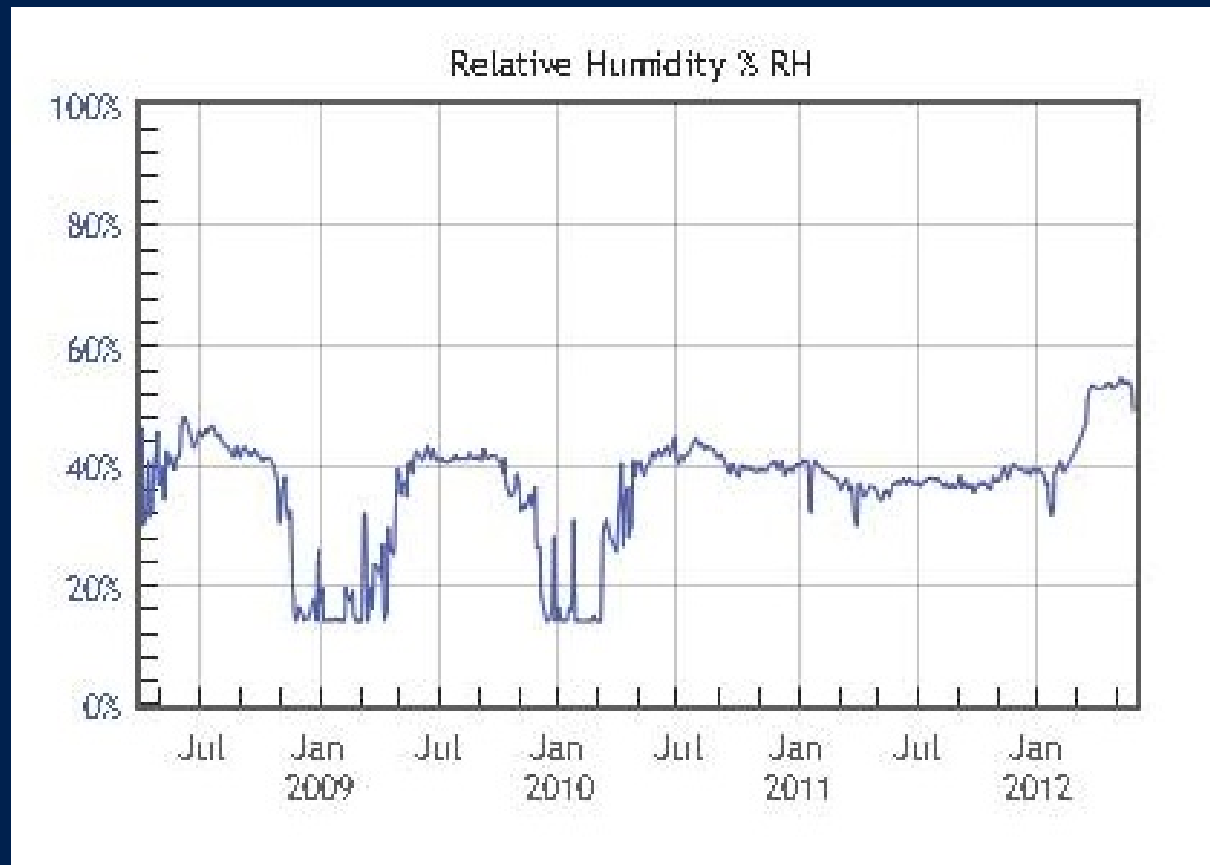
- Vapor barrier on internal building surfaces
- More shelving space (expanded footprint)
- Tighter temp and humidity control
 - Temp = 60 degrees F, plus/minus 2
 - RH = 45% RH, plus/minus 5%
- In-duct UV light system (fungicidal)



Facilities and Space Upgrades



Facilities and Space Upgrades



Post-Vendor Work on Collections

- Stabilization, rehousing and hand cleaning



Thanks!

Jennifer Hain Teper

jhain@illinois.edu

217.244.5689

Thanks to:

BMS-Cat managers and staff

University of Illinois Board of Trustees

All the UIUC Library preservation, conservation, and RBML staff working on the cleanup: Laura Larkin, Melissa Straw, Tom Teper, Emma Saito Lincoln, Alvan Bregman, Jody Waitzman, Jane Somera, Dennis Sears, Melissa Nykanen, Marten Stromberg, Kathie Veach, Jeff Schrader, and Matt Emmert.

