



DHPS | NY

DOCUMENTARY HERITAGE
& PRESERVATION SERVICES

FOR NEW YORK

Thanks for joining us! Today's presentation will begin shortly.

Please check your audio and video settings.
You should currently hear music in the background.

If you have questions or want to report any technical issues,
contact us at info@dhpsny.org or (215) 545-0613.



DHPS | NY

DOCUMENTARY HERITAGE
& PRESERVATION SERVICES
FOR NEW YORK

Black, White, and Read All Over: Addressing Newspapers in Collections

Gillian Marcus, DHPSNY Preservation Specialist
Jennifer Palmentiero, Digital Services Librarian, Southeastern
New York Library Resource Council

Documentary Heritage and Preservation Services for New York is a five year initiative to deliver collections-related training, preservation surveys, archival assessments, and other services to the historical records community in New York.



New
York State
Library



*New York State
Archives*



DHPS | NY

DOCUMENTARY HERITAGE
& PRESERVATION SERVICES

FOR NEW YORK

Website: dhpsny.org



CONSERVATION
CENTER

for art & historic artifacts



Let's talk about:

- Common problems with newspaper collections...
- Why it's important to take action on deteriorating newspaper collections...
- And what you can do to take positive steps toward caring for your newspaper collections and preserving their information for the future!

Daily Mirror MON NOV 4 1957 No. 16,763
2nd FORWARD WITH THE PEOPLE

CAN THE SPACE DOG RETURN FROM THE NEW 'RED MOON'?

Russians astonish the world again
★ **BRITISH SCIENTISTS SAY:**
'DRAMATIC' 'FANTASTIC' 'SPECTACULAR'

SPACE
No. 4
NOV. 4, SPACE YEAR ONE
—and see Pages Six and Seven

RUSSIA SCORED ANOTHER DRAMATIC SCIENTIFIC TRIUMPH YESTERDAY WHEN SHE FIRED A NEW SPACE SATELLITE NEARLY 1,000 MILES ABOVE THE EARTH WITH A DOG INSIDE IT.
A Russian scientist was reported as saying that the dog would be brought back to earth alive. But British scientists said they thought it most unlikely that the dog would survive.

Details of the new "Red Moon," announced by Moscow Radio early yesterday, revealed that—
Its **SHAPE** is like a bullet—not round like the first satellite launched a month ago.
Its **SPEED** is 18,000 m.p.h.—about the same as satellite No. 1.
Its **WEIGHT** is 1,120lb.—half a ton. The first satellite weighed only 180lb.
Professor Bernard Lovell, in charge of the world's biggest radio telescope at Jodrell Bank, Cheshire, said yesterday:
"It is a very dramatic and spectacular demonstration of Russian achievement in science and technology."

Mr. Kenneth Gifford, vice-chairman of the British Inter-planetary Society, said: "It's simply fantastic."
The dog in the new satellite is a

SHIRLEY GIVES A NEW KICK TO THE OLD CROCKS!
She, streamlined Shirley Ann Field in strictly a 1957 model, her picture in the show, such as "Monday Club" on TV and in "The Good Companion" and "The Fish is Cook"—has seen her rocking up the road to stardom. But her Miss Field—white, green-eyed, red-haired Technicolor pin-up—is the original Central Rd. From her taste in cars (she likes the vintage vintage and every Londoner in Brighton run is a Shirley Ann Field day) to her taste

in restaurants (she uses venison, which like the game to make both look and eat like it's chicken that comes, and a look at her nose as for-die's still only 28—proves that it's character, that pays off... in footprints and everything else.

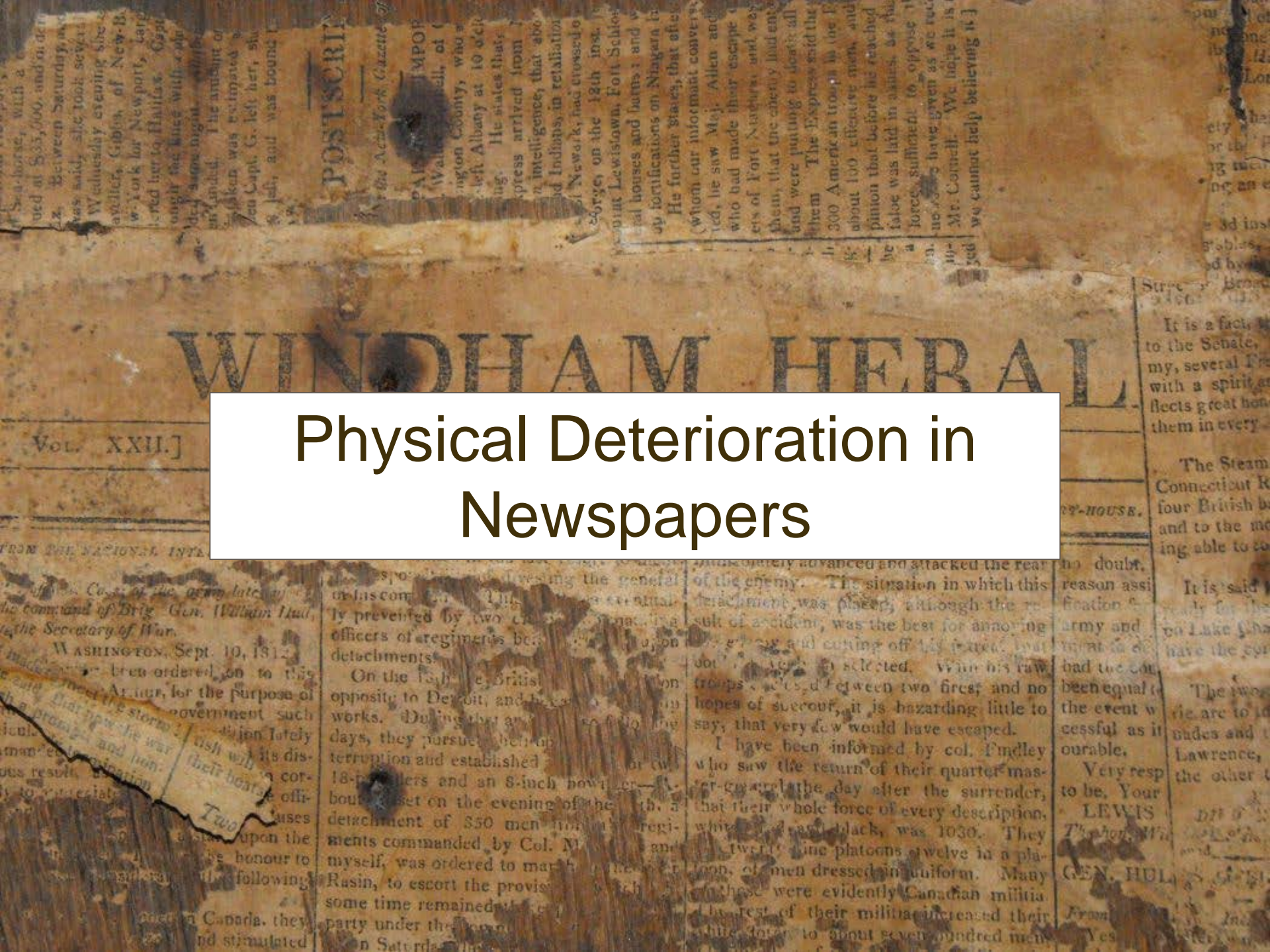
It is a look like this which is 1,000 miles above the earth in Sputnik II. This picture was taken by an automatic camera in a Russian rocket fired last month. The dog returned to earth safely. It is a scene known to the new "Red Moon" might say "Heof, weel!" as well as "Sleep, sleep!"

Continued on Page 24

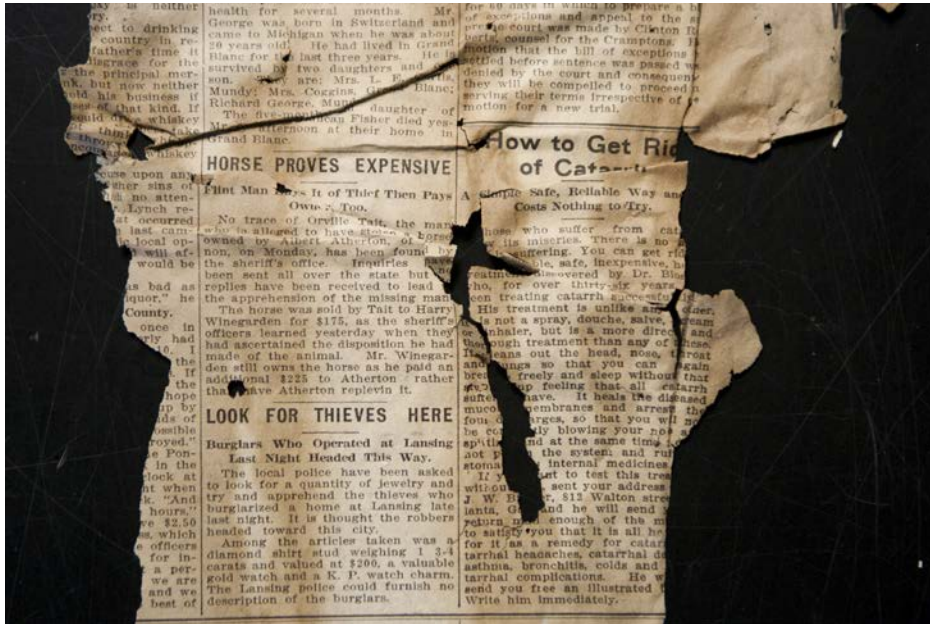
The Mirror begins a week of Happy Surprises today with—
SURPRISE No. 1
—See Page 11

WINDHAM HERALD

Physical Deterioration in Newspapers



Why Do My Newspapers Look Like Garbage?



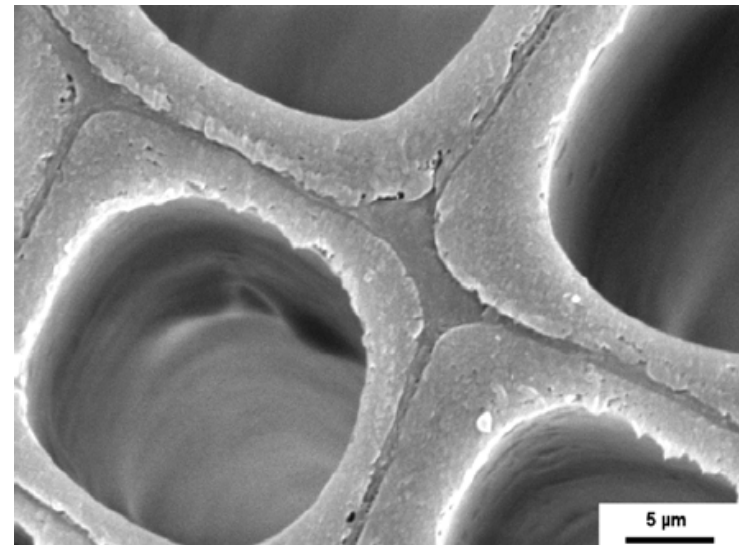
Images: michiganlive.com, cecildaily.com

What Causes Physical Deterioration?

- ❑ Inherent vice – raw materials
- ❑ Manufacturing
- ❑ Acidity
- ❑ Photolytic (light) damage
- ❑ Poor storage materials
- ❑ Poor storage environment
- ❑ Improper handling



Raw materials



Cross section of wood swelled in ethanol: Image courtesy Urve Kallavus



Various stages of wood pulp

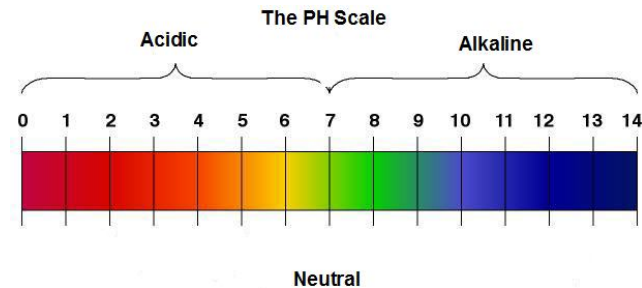
Newspaper Manufacturing

- Mechanical wood pulp has short fibers and a high lignin content, which promotes acid hydrolysis.
- Pre 1980s, wood pulp paper has alum-rosin sizing which generates sulfuric acid in the presence of moisture.



Acidity: Inherent and Environmental

- As it ages, cellulose in paper produces various acidic compounds
- Alum-rosin sizing generates sulfuric acid in the presence of moisture
- Paper can also absorb sulfur and nitrogen oxides from the environment
- Handling can leave traces of lactic acid (sweaty hands)



Yellowing: Photolytic Damage



- Visible and UV light accelerates degradation processes in poor-quality paper, as well as causing changes in ink and paper colors (i.e. colored newspapers, such as the Financial Times)

WINDHAM HERALD

Environmental Factors

WINDHAM (Conn.) PRINTED BY J. DYRNE AND SON, IN THE LOWER ROOM OF THE COURT-HOUSE.

FROM THE NATIONAL INTELLIGENCE.

Office of the Army Inter-
the command of Brig. Gen. William Hurl
the Secretary of War.

WASHINGTON, Sept. 10, 1812.

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fore determined in the last resort to have
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This was eventually
ly prevented by two circumstances, namely,
officers of regiments being detached
detachments.

On the 13th, the British
opposite to Detroit, and began their
works. During the day
days, they pursued their
interruption and established
18-pounders and an 8-inch howitzer—
about 2,000 men. On the evening of the 14th, a
detachment of 350 men from the regi-
ments commanded by Col. M. and
myself, was ordered to march to the
Rasin, to escort the provisions. Some
some time remained there, and
party under the command of
on Saturday.

Immediately advanced and attacked the rear
of the enemy. The situation in which this
detachment was placed, although the re-
sult of accident, was the best for annoying
the enemy and cutting off his retreat. But
not being so selected. With his raw
troops, wedged between two fires, and no
hopes of success, it is hazarding little to
say, that very few would have escaped.

I have been informed by Col. Findley
who saw the return of their quarter-mas-
ter-general the day after the surrender,
that their whole force of every description,
white, red, and black, was 1030. They
were divided into twelve in a pla-
toon, of men dressed in uniform. Many
of these were evidently Canadian militia.
The rest of their militia increased their
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Environmental Factors

- Temperature and relative humidity
- Pollution
- Pest or mold damage
- Light exposure



Temperature and Relative Humidity

Temperature

- 59-77 °F
- In general, the cooler the better to help slow degradation processes

Relative Humidity

- Ideally, 30-40% RH
- ...but for mixed-media collections, 45-55% (+/- 5%) is acceptable
- Avoid rapid fluctuations (more than 10% in a 24-hour period)

Controlling Your Environment Without an HVAC System

- Stand-alone dehumidifiers
- Window air conditioning units
- Dataloggers



Controlling Your Environment Without an HVAC System

- ❑ Staggering shelves
- ❑ Fans
- ❑ Sealing windows



Image: Library of Congress blog

Pollution



Image: David Waugh

- Sulfur and nitrogen oxides in the atmosphere
- See: edges which are darker/yellower and more brittle
- Microclimates created in plastic storage bins or plastic bags

Pest and Mold Damage



Image: Duke University Libraries



Image: Document Restoration Services

Visible and UV Light



Images: University Products

WINDHAM HERALD

Storage and Handling

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Bad Storage Happens to Us All



- Brittle newspaper crunched in a small space
- Plastic containers making a microclimate for acidic material



- Acidic storage materials
- Oversized newspapers bent and overhanging shelves

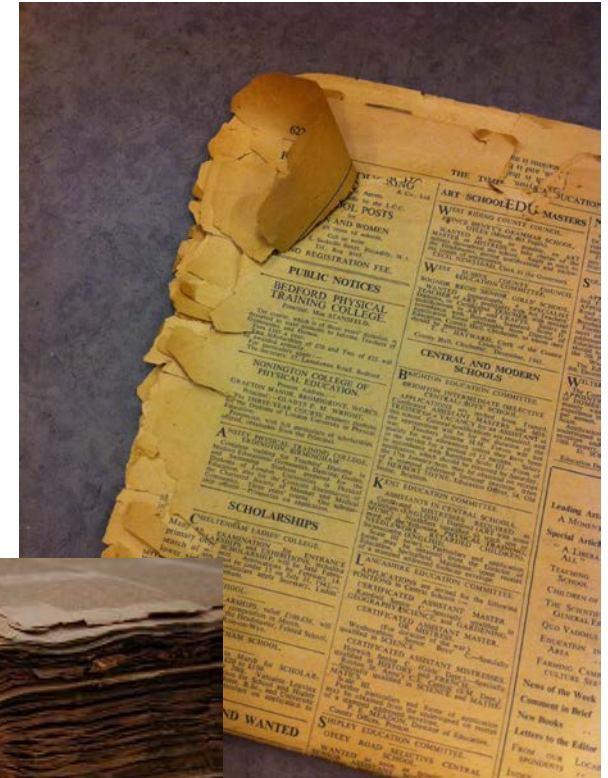
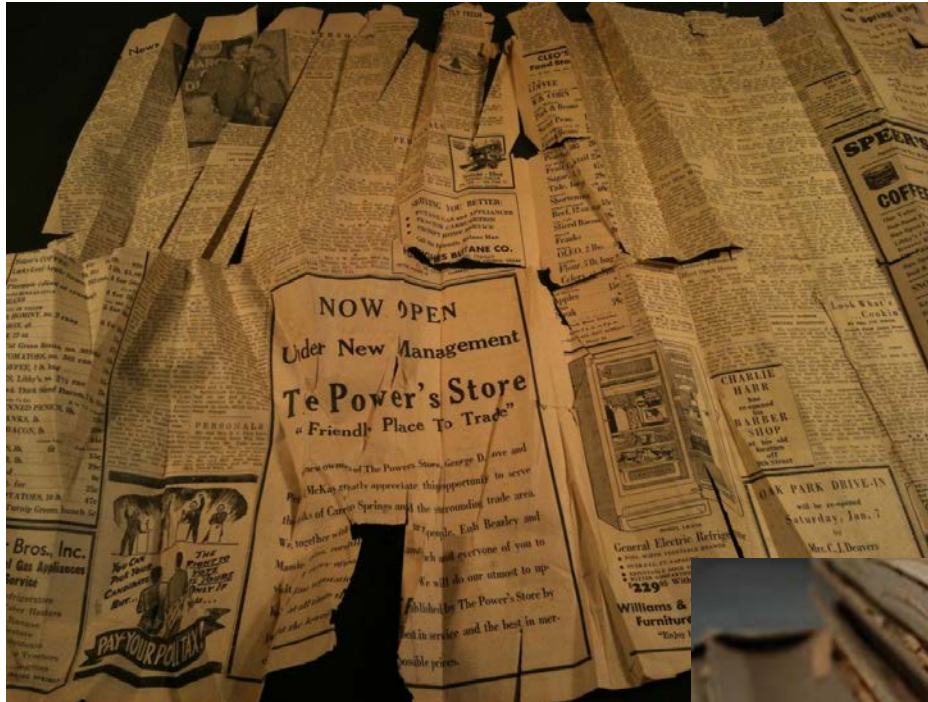
Good Storage Materials for Unbound Newspapers



Good Storage Materials for Bound Newspapers



Handling Damage



Images: Texas State Archives and Library Commission, University of Iowa Libraries



Good Handling Practices

- Bound newspapers should be **supported** with a book cradle or a book pillow.
- Newspaper pages should be **turned slowly and carefully**, making sure not to turn pages from the very edge (which tends to be more brittle.)
- Transport unbound newspapers in a folder, box, or on a cart so that they have a **strong support**.
- Ensure that the work space is large enough to **accommodate** the newspaper and that the edges don't hang over the side of the table or desk.

SOS: Conservation Treatment and Cold Storage

WINDHAM HERALD

VOL. XXII.]

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...This
...ly prevented by two
...officers of regiments be
...detachments.
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POSTSCRIPT
...the New York Gazette
...Maj. Allen and
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...Mr. Cornell. We hope it is
...we cannot help believing it

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...2. Between Saturday and
...was said, she took seven
...Wednesday evening she
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...her to Halifax. Capt
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...taken was estimated
...Zou Capt. G. left her, she
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SOS

- Deacidification
- Stabilization
- Framing in a sealed package with zeolites (or other molecular traps)
- Cold storage

www.culturalheritage.org (American Institute for Conservation)

WINDHAM HERALD

Summary: Best Practices

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Environment

- 59-77F and 30-40% RH (or 45-55% RH for mixed collections)
- Low visible and UV light levels in storage



Storage Materials

- Buffered, acid-free and lignin-free storage materials
- Avoid sealed plastic boxes or bags



Handling

- Watch for brittle edges
- Take care when unfolding stiff, brittle folded newspapers
- Have a good handling policy in place for researchers and visitors

Newspaper Do's

- Keep independent dataloggers every place collections are used/stored/exhibited
- Limit the amount of light newspapers are exposed to
- Use supplementary dehumidifiers or air conditioning units when needed
- Good housekeeping and handling practices
- Buffered, acid-free, lignin-free storage materials

Newspaper Don'ts

- ❑ Don't let newspapers overhang a shelf or table
- ❑ Don't store newspapers rolled up for long periods of time
- ❑ Don't store newspapers in areas with high temperatures and/or relative humidity, or rapidly fluctuating temperature and/or relative humidity
- ❑ Don't put them in a sealed plastic container or acidic cardboard box

Email me!
Gillian Marcus
gmarcus@dhpsny.org

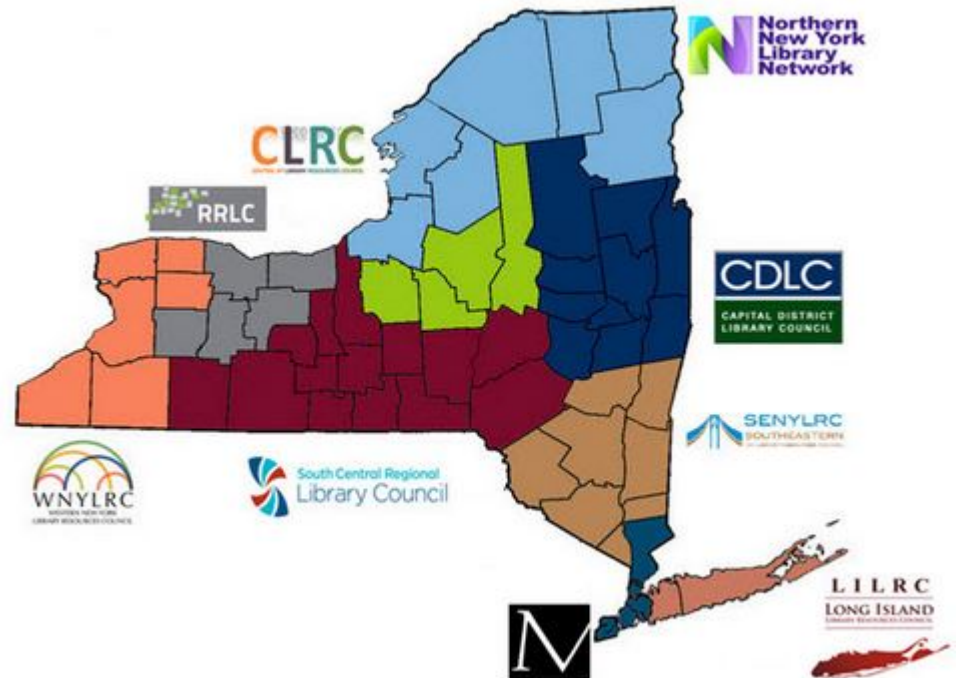
Black, White and Read All Over

Part II: Reformatting Newspapers

Jen Palmentiero, Digital Services Librarian
Southeastern NY Library Resources Council



Empire State Library Network





Microfilming Newspapers



NYS Newspaper Project

<http://www.nysl.nysed.gov/nysnp/>



New York State Library

NYSED / OCE / NYSL / Research Library / Newspapers /

New York State newspapers on microfilm and in print

The [New York State Newspaper Project](#) officially closed on January 31, 2007, after almost twenty years of locating, cataloging, and preserving New York State newspapers on microfilm.

[Electronic subscription databases](#) that include newspapers are available from the New York State Library. [Contact](#) the State Library for more information.

New York State Library Microfilm Holdings

Up-to-date information showing microfilm holdings for newspapers in the State Library.

[City list](#) | [County list](#) | [Title list](#) | [Access](#) | [Borrow](#) | [Purchase](#)

Statewide Microfilm and Print Holdings

Includes print and microfilm holdings for the State Library and other institutions statewide as collected by the NYS Newspaper Project from 1987 to 2007. The State Library's holdings are kept up-to-date. The State Library does not update the holdings data for outside institutions. Please contact those institutions directly for the latest information.

[City list](#) | [County list](#) | [Title list](#)

Search statewide holdings by city, county or title

After your search, you may need to scroll down the page to view the results.

Non-New York Newspapers in the State Library's Collections

- [Newspapers from other states](#)
- [Newspapers from other countries](#)

Lists updated November 4, 2013

Reference Questions

[Ask a Librarian](#)

Information

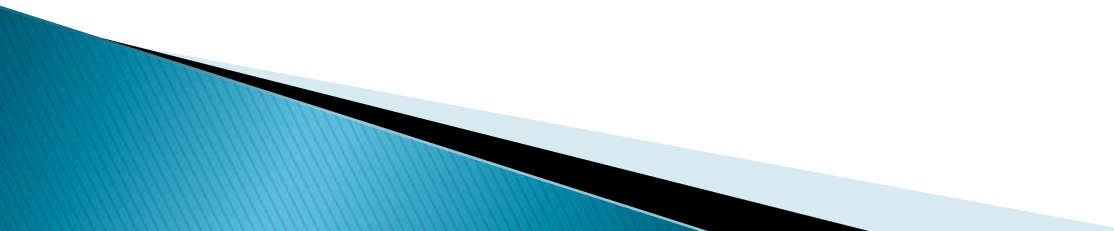
- [Appraisers and Collectors](#)
- [National Digital Newspaper Program](#)
- [NYS Newspaper Project](#)
- [Online newspapers](#)
- [Other sources of microfilm](#)
- [Preservation grants from NYSL](#)
- [Research guides on newspapers](#)
- [Chronicling America \(Historic American Newspapers\)](#)
- [Vault storage and donations](#)

Digitizing Newspapers


- ▶ Plan
- ▶ Communicate
- ▶ Document



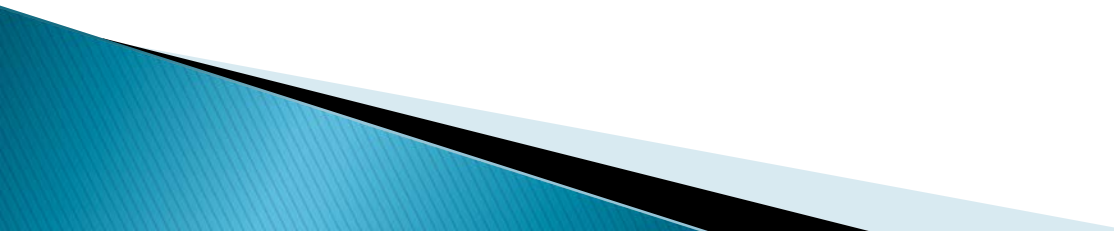
Planning

- ▶ Selection
 - ▶ Reformatting
 - ▶ Access
 - ▶ File Storage / Digital Preservation
 - ▶ Funding
- 

Selection

- ▶ Audience
 - Define a primary audience
 - ▶ Content
 - What content do they need/want
 - ▶ Copyright
 - Pre 1924 is public domain
 - ▶ Quantity
 - How long of a run do you have access to?
 - Weekly vs. daily
 - ▶ Quality
 - Of the paper and the film
- 

Microfilm Evaluation

- ▶ Image Orientation
 - ▶ Film Generation/Polarity
 - ▶ Film Type
 - ▶ Reduction Ratio
 - ▶ Density
 - ▶ Focus
- 

Microfilm Evaluation

► Image orientation



SOURCE: Adapted from Nancy E. Elkington, ed., *RLG Preservation Microfilming Handbook* (Mountain View, Calif.: RLG, 1992), 133.

Microfilm Evaluation

- ▶ Film Generation/Polarity
 - Master negative (1st generation)
 - Print master negative (2nd generation)
 - Service copy (positive – 3rd generation)

Microfilm Evaluation

- ▶ Film base types
 - Polyester
 - Cellulose Acetate or Cellulose Triacetate

Microfilm Evaluation

- ▶ Emulsion types

- Silver Halide

- Diazo

- Vesicular

Microfilm Evaluation

- ▶ Reduction Ratio
 - Low: 8x to 14x
 - Medium: 15x to 24x
 - High: 25x to 75x

Microfilm Evaluation

- ▶ Density
 - Contrast
- ▶ Resolution
 - Focus

Miss Mary as of Pine street
and Miss Mary liger of St. James
Court are spending several days with
friends in Ell-

Mrs. James Intyre and daugh-
ter, Miss Ros Intyre, of Clinton
avenue, are at the home of
Philip Clearwater Ellenville.

Among the best of the many
parties who led for the coming of
the new year the guests at The
Huntington. ands were entertained
from New York Albany, Catskill and
Middleburg.

Mr. and Frank I. Cox, formerly
of New York, are moving into B.
R. Stare's house on Fair street. Mr.
Cox, who has become associated with
the M. C. D. Company, will enter
upon his new work next Monday.

—Mrs. H. A. Rose departed for her home in New Decatur, Alabama, on Monday morning after an extended stay in Ceres.

—Mrs. L. Ingraham of Shingle House, and daughter, Miss Amy B. Ingraham of Short Hills, N. J., visited among Ceres friends on Monday.

—Mr. and Mrs. Clarence Bissell have returned from Rochester, and are now "at home" to their numerous friends. They arrived Saturday morning.

A Good Dessert.

Souffle of Apples With a Border of Rice.—Prepare the rice in cream, etc., as for rice cake, and keep it of a strong, solid substance. Dress it round a buttered dish about three inches high; give it a nice shape, level and smooth. Have ready an apple marmalade, very thick. Mix with it four yolks of eggs well beaten, a small piece of butter and a pinch of salt; warm it upon the stove; then take the whites of four eggs well whipped, mix very lightly with the marmalade, put the whole in the middle of the rice and set in a moderately heated oven. When the souffle rises high send in to table at once or it will fall. Some cooks hold a salamander over it just before taking into the room.

"Well, I don't know," replied the other; "they does smell bloody run things sometimes—these here Injuns."

"When he come, Anoongezh e? When, he Indian summer come? You tell me *that*. Me got heap *moree*!" (Jamaica run).

"He come, next day, morrow, sun so high." And he pointed as he spoke to the zenith.

"He come, maybe?" asked Forester.

Washington, Jan. 1.—A silver loving cup, sent from Postmaster General Frank H. Hitchcock to Postmaster E. M. Morgan of New York city, at midnight, marked the advent of the new year. This is the first piece of mail sent through the mails under the provisions of the new parcels post law, which became effective today. At the same moment the service was opened for business in every postoffice in the United States. The cup as an emblem of the innovation of one the greatest institutions of the postoffice establishment, will be suitably engraved after its reception by Postmaster Morgan and deposited in the national museum, where the postoffice department now keeps its other relics and curios.

- ▶ Fnink l"oyo--'t"r lMdi«»v«« thai A ii\>ni;e<.lii:; tuiiwl it (wodayo aliead * iii:il r.ur)Hv-ia that matiuci l a mvrfl,u<Jl lvh*, Lbiui rriinon , .— . »*«^ , Vi. A^ rev4'V(nid ^iMnlemun M-na addrtaaainjr ft Ki^hiMil C4«ici-ri iibK-iilly, und wa n tryiuui to eui'oiw»|Ji y Uiwlrriio'llia l llio hearts o f th« liulo uu«a weiv niuilul.Hu d uei^d'HI re^utai- iu^ . Ts^iu; uul bi a watch lUid holdiuy it up.hu 0«; d . 'yow, ln-M- i a uiy wutcu; su|>piin,iit diu'l kei-piffj liute; now > ;'M4 too fast . Kjid uou to o ^^lw. what fball l do with it r \ ' .Std l J l : \ ahoiilo d a lhuLejt- WadtH l y^MiupMi'i. An lraacJbl e idd tr<Mitltiunui vaa takna with fmiojdo*! i u the <'»i» lniely . Altnr auoe^iuji; iu a m\Hi s)ia-m<idiv «»y ^ij^h t Of ten tiuied, he lOrt-.ted tbu ruiroxyM u lo T a momeut, ami e.t.tji('uiini; liia liaudker- chief , he iliuii iudicoanily u'ldrfWH-J hi« iianj oj^'iui ; \Oh ' n'l ,tu—jj-o ' .-i, you'll Uu V /' . • u r iufuTiiuJ Uraiu a out jifUM-uUv.'*

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- ▶ 300–400 ppi
- ▶ File formats: TIFF, JPEG2000, PDF
- ▶ Bi-tonal vs. Grayscale
- ▶ OCR (Optical Character Resolution)
- ▶ NDNP (National Digital Newspaper Program)
 - METS/ALTO

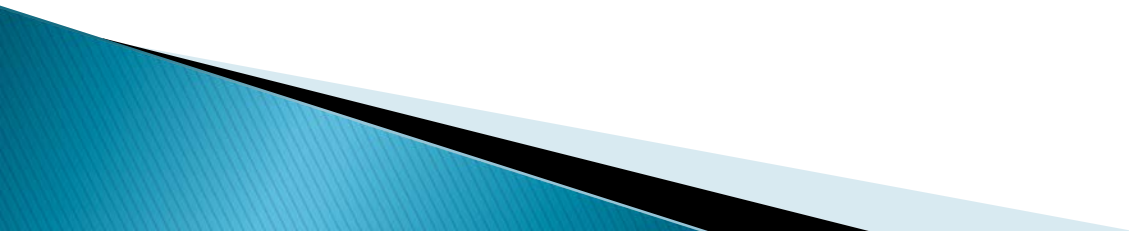
Bi-tonal vs. Grayscale



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Terry, Kopana. "Microfilm-2-Digital: Things 2 Know Before U Digitize." 2008. https://works.bepress.com/kopana_terry/38/

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Independent/Leader 27
December 1972

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2/11 Updated:

- [Capital Neighbors](#)

- [Merrick Life](#)

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- [The Beacon](#)

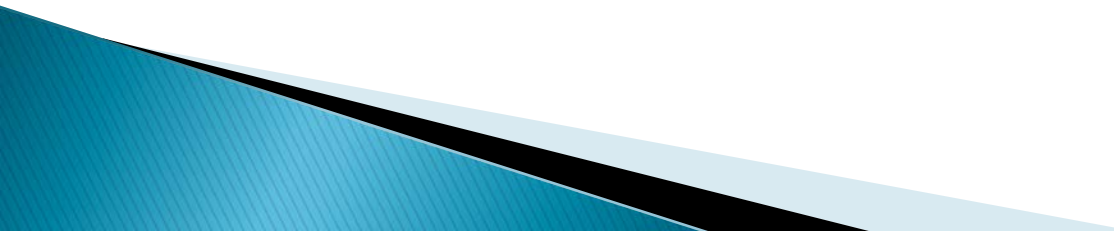
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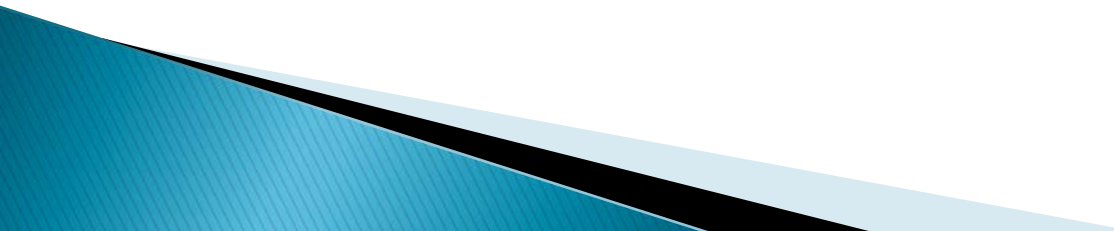
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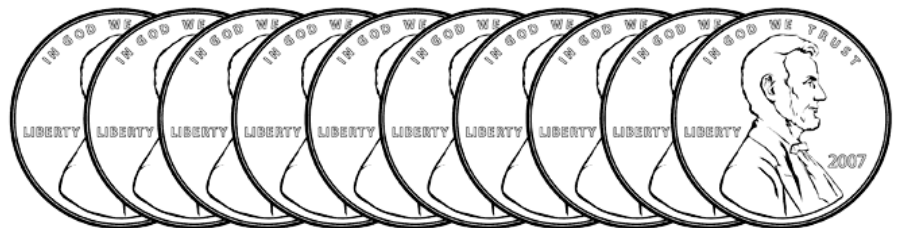
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 - ▶ Internet Archive
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 - ▶ There are more!
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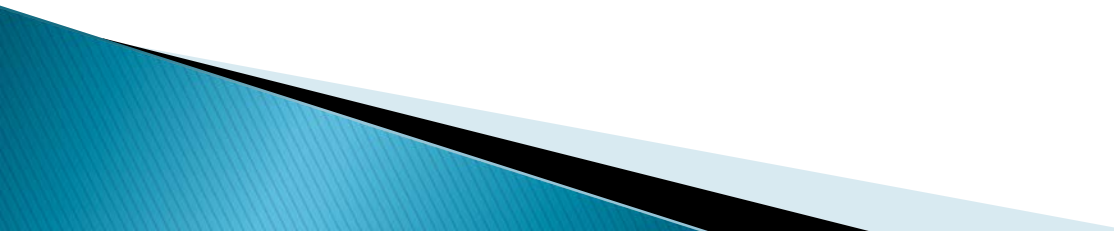
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- ▶ Collaborations / partnerships
- ▶ Community fundraising
 - Crowdfunding platforms



For a Successful Project...

- ▶ Plan
 - ▶ Communicate
 - ▶ Document
- 
- A decorative graphic element in the bottom-left corner of the slide, consisting of overlapping blue and black geometric shapes.

Thank You! Get in Touch!

Jen Palmentiero

jennifer@senylrc.org

845-883-9065 x116