DODGING THE MEMORY HOLE

A brief history of born-digital news preservation in the US

Edward McCain
Digital Curator of Journalism
University of Missouri Libraries and Donald W. Reynolds Journalism Institute

www.rjionline.org/jdna
@RJIJDNA
#savenews
1984
 Eric Arthur Blair
 a.k.a. George Orwell
“FOR SOME REASON THEY WERE NICKNAMED MEMORY HOLES”

– Orwell, 1984
‘We are nonchalantly throwing all of our data into what could become an information black hole.’

— Vint Cerf
Consultative Committee for Space Data Systems

Reference Model for an Open Archival Information System (OAIS)

CCSDS 650.0-B-1
BLUE BOOK
January 2002

Trusted Digital Repositories:
Attributes and Responsibilities
An RLG-OCLC Report

RLG
Mountain View, CA
May 2002
Yin Yang Night Club benefit drag show raises money for Orlando victims’ families

BREA CUBIT   | 34 min ago

From entry fees, tips and donations, Yin Yang raised a total of $4,043 at the drag show. Approximately 400 people were in attendance.

• Yin Yang Club hosts drag show

MU internal audit highly critical of CAFNR

ALLISON COLBURN   | 2 hr ago

Two weeks after MU released an internal audit showing how CAFNR employee Carla Rothmann was able to steal more than $760,000, the university released another internal audit critical of the entire college.

LOCAL

Sewage pipe burst contaminates Mill Creek

GRACE HASE   | 1 hr ago

City crews have been on site since Saturday to fix the problem and clean up the mess.

Latest News

• MU internal audit highly critical of CAFNR
• NORML chapter clashes with MU over proposed T-shirt designs
• US: Facing Argentina, Messi in Copa semi not overwhelming
• Bale makes 6 goals in 3 games as Wales wins group
• Major hurdle: Breaks finally fall Dustin Johnson’s way

Most Popular

Latest News

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• Bale makes 6 goals in 3 games as Wales wins group
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Search the Missourian Archives

- Search the archives of the *Columbia Missourian* print edition from **February, 2002 to the present**

- **Search Tips for the Missourian archives**

- **Digitized Missourians, 1929, 1966 – 1985**
  Full text searching of the Missourian through the Missouri Historical Newspaper Project

**PLEASE NOTE**

- **At this time there are no electronic archives for the 1986 – early 2002 Archives.**
- **Vox Magazine** is kept through the magazine office.
For every $1 gained in digital, $7 are lost in print revenue.
Newspaper Death Watch

Founded March 5, 2007
Chroning the Decline of Newspapers and the Rebirth of Journalism
Paywall-Free

R.I.P.
North American metro dailies that have closed since this site was created in March, 2007

Tucson Citizen
Rocky Mountain News
Baltimore Examiner
Kentucky Post
Cincinnati Post
King County Journal
Union City Register-Tribune
Halifax Daily News
Albuquerque Tribune
South Idaho Press
San Juan Star
Honolulu Advertiser

Wikipedia list of defunct U.S. newspapers

W.I.P.
Works In Progress: Major metro dailies that have cut frequency, or adopted hybrid online/print or online-only models.

Ann Arbor News
Capital Times
Catskill Daily Mail & Hudson Register-Star
Christian Science Monitor

R.I.P. (Again) Tucson Citizen

By paulgillin | May 15, 2009 - 6:14 pm - Posted in Business News, Layoffs, Local news
NewMedia, R.I.P.

The 138-year-old Tucson Citizen, America’s oldest newspaper, will print its last edition tomorrow, even as a prospective buyer bows in protest. The paper will continue online with what is being called a “modified” edition focused on commentary and opinion, but without news or sports coverage the newspaper is effectively dead.

Founded in 1870 as the Arizona Citizen, the daily has gone through a painful downsizing process, culminating in a bizarre series of late rescue attempts. Owner Gannett Co. announced in January that it was putting the Citizen up for sale and would shut down the paper in March if no buyer was found.

In February, the Justice Department said it was investigating the Gannett sale due to allegations that the company would not give up its interest in a joint operating agreement (JOA) it has with Lee Enterprises, publisher of the Arizona Daily Star. JOAs are legally sanctioned deals that enable partners to share profits and back office operations while maintaining competing editorial voices. Without the JOA, the Citizen is effectively a money pit.

Failed Rescue Attempt

On March 16, just five days before the scheduled shutdown, we posted our first RIP for the newspaper, but the next day Gannett announced that two “very interested buyers” had emerged. In fact, the Citizen had at least five suitors during its final months, but none wanted to pay Gannett’s price. Meanwhile, the Justice Department confirmed today that it has closed its investigation into the sale and will let the Citizen shut down.

The howls of protest are from Stephen Hadland, CEO of Santa Monica Media Corp., who says he still wants to buy the Citizen and who claims Gannett refuses to hedge on price. The Citizen reported in March that Santa Monica Media is a “blank check company” that exists solely to perform mergers and acquisitions. Hadland has hired the Arizona attorney general for a temporary restraining to prevent Gannett from closing the Citizen. With no further interference from the Justice Department, however, it appears that the closure is a done deal.

In a final strange twist, a Gannett implied that the stub of a website being kept in operation may be nothing more than a sop to the Justice Department to let it go through. Gannett revealed almost no details about the plans for the online operation and refused to say how long it will keep the site in operation.

The Citizen employs 60 people, most of whom will lose their jobs, although some may be retained to staff the Web operation.

Update 5/16/09: Arizona Attorney General Terry Goddard filed a complaint in U.S. District Court in Tucson late Friday to block the closure of the Citizen. A temporary restraining order is being filed. The move appears to have been initiated by Santa Monica Media Corp., which says it bid a fair price for the paper but was outbid by Gannett.

First issue of the Arizona Citizen, 1870

TUCSON CITIZEN 1870-2009
The Tucson Citizen newsroom after closing
The Tucson Citizen “morgue” after the closing
TUCSON CITIZEN MORGUE, PART 1 (2006-2009)

TucsonCitizen.com beta version launches today
by Mark B. Evans on Jun. 01, 2009, under Local

In 2010, a power surge fried a server that contained all of the videos linked to dozens of stories in this archive. Also, a server that contained all of the databases for dozens of stories was accidentally erased, so all of those links are broken as well. However, all of the text and photos that accompanied some stories have been preserved.

For all of the stories that were archived by the Tucson Citizen newspaper's library in a digital archive between 1993 and 2009, go to Morgue Part 2

UPDATE: We’re working out some last minute glitches and the new site should be up soon.

At about noon today, we will switch over to the beta version of the new TucsonCitizen.com.

The new site will appear fairly basic for a couple of weeks while programmers and designers work on its ultimate look and function.

About a dozen people have agreed to begin blogs or transfer their blogs to our new site. Some will begin blogging today, others throughout this week and next.

Another dozen or more have expressed strong interest and are likely to begin blogging before the month is out.
In 2010, a power surge fried a server that contained all of videos linked to dozens of stories in this archive. Also, a server that contained all of the databases for dozens of stories was accidentally erased, so all of those links are broken as well. However, all of the text and photos that accompanied some stories have been preserved.

For all of the stories that were archived by the Tucson Citizen during the years 2006-2009, this archive contains all the stories that appeared on the Tucson Citizen's website from mid-2006 to June 1, 2009.

UPDATE: We’re working out some last minute glitches.

At about noon today, we will switch over to the beta version.

The new site will appear fairly basic for a couple of weeks while we work out the bugs.
Our Digital Archive
This blog page archives the entire digital archive of the Tucson Citizen from 1993 to 2009. It was gleaned from a database that was not intended to be displayed as a public web archive. Therefore, some of the text in some stories displays a little oddly. Also, this database did not contain any links to photos, so though the archive contains numerous captions for photos, there are no links to any of those photos.

There are more than 230,000 articles in this archive.

In TucsonCitizen.com Morgue, Part 1, we have preserved the Tucson Citizen newspaper's web archive.
National Digital Information Infrastructure and Preservation Program (NDIIPP) workshop
2009 LC/NDIIPP Archiving Digital News Workshop recommendations

• National effort
2009 LC/NDIIPP Archiving Digital News Workshop recommendations

• National effort

• Full range of news
2009 LC/NDIIPP Archiving Digital News Workshop recommendations

• National effort

• Full range of news

• Published and “raw” content
2009 LC/NDIIPP Archiving Digital News
Workshop recommendations

• National effort

• Full range of news

• Published and “raw” content

• Many stakeholder groups
2009 LC/NDIIPP Archiving Digital News Workshop recommendations

- National effort
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- Many stakeholder groups
- Large media organizations contribute resources
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- Large media organizations contribute resources
- Serve needs and interests of users
Workshop recommendations

- National effort
- Full range of news
- Published and “raw” content
- Many stakeholder groups
- Large media organizations contribute resources
- Serve needs and interests of users
- Respect intellectual property
Citizen Journalists and Community News: Archiving for Today and Tomorrow
2010 LC Citizen Journalists Meeting: Concrete Next Steps, Recommendations

• Provide mechanisms for participation
2010 LC Citizen Journalists Meeting: Concrete Next Steps, Recommendations

- Provide mechanisms for participation
- Provide tools to support archiving
2010 LC Citizen Journalists Meeting: Concrete Next Steps, Recommendations

- Provide mechanisms for participation
- Provide tools to support archiving
- Best practices
November 2010

2010 LC Citizen Journalists Meeting: Concrete Next Steps, Recommendations

- Provide mechanisms for participation
- Provide tools to support archiving
- Best practices
- Partnership networks
2010 LC Citizen Journalists Meeting: Concrete Next Steps, Recommendations

- Provide mechanisms for participation
- Provide tools to support archiving
- Best practices
- Partnership networks
- Conferences
Rescuing orphaned and digital content

April 10-12, 2011

The Newspaper Archive Summit
Victoria McCargar white paper:

• Digitization vs preservation
Victoria McCargar white paper:

- Digitization vs preservation
- Identify and prioritize risks
Victoria McCargar white paper:

- Digitization vs preservation
- Identify and prioritize risks
- Preserve contemporary news
Victoria McCargar white paper:

- Digitization vs preservation
- Identify and prioritize risks
- Preserve contemporary news
- Economics of ownership
Victoria McCargar white paper:

- Digitization vs preservation
- Identify and prioritize risks
- Preserve contemporary news
- Economics of ownership
- It’s a not just a library problem
Katherine Skinner & Matt Shultz

- Preservation as spectrum
- Rationale
- Incremental steps
- Engage at any level
- Case studies
**Significant Loss of News Content**

Q5c: Have you ever experienced a significant loss of news content?

<table>
<thead>
<tr>
<th></th>
<th>Online Only</th>
<th>Hybrid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>17%</td>
<td>27%</td>
</tr>
<tr>
<td>No</td>
<td>81%</td>
<td>70%</td>
</tr>
<tr>
<td>DK/NS</td>
<td>1%</td>
<td>3%</td>
</tr>
</tbody>
</table>
# Insufficient policy as threat to BNDC

<table>
<thead>
<tr>
<th>Threat Level</th>
<th>Online Only</th>
<th>Hybrid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Threat</td>
<td>1%</td>
<td>10%</td>
</tr>
<tr>
<td>Threat</td>
<td>11%</td>
<td>17%</td>
</tr>
<tr>
<td>Moderate Threat</td>
<td>27%</td>
<td>26%</td>
</tr>
<tr>
<td>Q13c - Less Threat</td>
<td>20%</td>
<td>21%</td>
</tr>
<tr>
<td>No Threat</td>
<td>39%</td>
<td>22%</td>
</tr>
</tbody>
</table>

The diagram shows the percentage of responses for different threat levels, with "Online Only" and "Hybrid" categories. The table below provides the specific percentages for each threat level category.
### Q4b: Do you store and retrieve BD content using a CMS?

<table>
<thead>
<tr>
<th>Answer</th>
<th>Online Only</th>
<th>Hybrid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, Own</td>
<td>47%</td>
<td>20%</td>
</tr>
<tr>
<td>Yes, Vendor</td>
<td>21%</td>
<td>41%</td>
</tr>
<tr>
<td>No</td>
<td>7%</td>
<td>19%</td>
</tr>
<tr>
<td>DK/NS</td>
<td>24%</td>
<td>18%</td>
</tr>
<tr>
<td>Others</td>
<td>0%</td>
<td>1%</td>
</tr>
</tbody>
</table>
dodging the memory hole
Dodging the Memory Hole 2014
Dodging the Memory Hole 2014
Six categories for action:

• Awareness
• Legal framework
• Policies
• Resources
• Standards and Practices
• Technology
Dodging the Memory Hole 2014
Three priority action areas, eight leadership teams:

• Awareness
  • Environmental Scan
  • Advocacy Messaging
  • Public-Private Partnerships
• Standards and Practices
  • Preserving print-ready (born-digital) PDFs
  • Preserving web-based content
  • News metadata
  • Content Management Systems
• Legal framework
  • Succession Agreements
DtMH 2015 Leadership team efforts:

- Edited survey instruments
-Outlined guidelines for donation/succession agreements
- Drafted plan for CMS interoperability schema
- Announced Memento for WordPress project
The GDELT Project

INTERNET ARCHIVE

2016
Six cars of a Burlington Northern Santa Fe freight train have derailed in Montana, forcing evacuation of up to 400 people, a railway official reports. Three of the tanker cars contained a hazardous material, the official says. No leaks have been reported.
Sen. Patty Murray of Washington emphasized Gore's 10-year education plan to build more public schools and hire 100,000 teachers while also implementing higher accountability standards -- issues that Republican nominee George W. Bush has made the mainstay of his own education agenda.

"Some people talk about education at election time. Al Gore has worked to improve it over a lifetime," Murray said. "He will revolutionize public education by investing more and demanding more. He'll treat teachers like the professionals they are. And with Joe Lieberman by his side, he'll continue what we started."

The speeches received increasing enthusiastic rounds of applause from the delegates as they awaited the speeches from the Clintons.
Sorry.

This URL has been excluded from the Wayback Machine.
Rain suspends UK’s NCAA tournament baseball game

By Mark Maloney
The game will resume at 11 a.m. Saturday, with Michigan runners on first and second, two outs in the bottom of the sixth and the Wolverines leading 5-1.

Dawahare’s files for bankruptcy

Post a comment
By JIm Jordan
The Lexington-based Dawahare’s chain of clothing stores filed for bankruptcy reorganization Friday, citing the national economic downturn and competition from other retailers.

3 die, including Perry magistrate, in gas station shooting

Dawahare’s files for bankruptcy

Post a comment
Planned Midway nursing home gets grant

Down town garage closed Saturday

Audit: Pulaski overspent road funds

Herald-Leader horse writer MaryJean Wall to retire

Plea deal reached in 2006 crash death

Report: Faulty cable, operator response factors in accident

AUDREY WEBER, 4, shouted “Mommy, I got one, I got one!” at the Saint Elizabeth Ann Seton Church fair in Lexington on Friday. Audrey won a fish on one of her last throws at the booths. | SLIDE SHOW

FRESH BLOG HEADLINES

UK basketball: SEC divides record amount of money
The Musical Box: keep observer
Pol Watchers: ‘Comment’ topic: special session
The Buzz: Cedar from Maine, music from Kentucky
KyKurmdgeon: Can he cite a reference for that?
Ask Us: Ants on my peasies, oh no!
Tom Eble: Obama and Appalachia
Copious Notes: Hotels.com ad campaign bugs me
Complete blog lineup

SPORTS UPDATE

Iconologie, Everett excel in Legends’ victory
Sports calendar
New challenge for UK quarterbacks coach
Plentia of Horsemen sprang from same Herd
Pistons’ Hamilton to play in Game 6
Ex-EKU guard Leonard lands at Missouri State
Duquesne hires former UK assistant Rigot
KENTUCKY GOLF: Set tee time, save money
An international prize

The 65th annual Pictures of the Year International competition...

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Latest Video: Nothing slows down Adam Bender

Advertisement

- Categories
  - Blog
    - Behind the Photo
Webbs tweak CentrePointe design

Vice mayor: Tower still 'troublesome'

By Steve Larnen and Michelle Kup
SLANNEN@HERALD-LEADER.COM

Developers of a controversial high-rise project in downtown Lexington have submitted revamped plans, but the city's vice mayor said the CentrePointe proposal remains "troublesome."

New plans by the Webb Cos. include:

• Putting the hotel lobby and entrance facing West Main Street instead of Vine Street.

• Moving the tower away from the street so the façade along Main Street is similar in height to nearby buildings.

• Attempting to preserve the façade of the Rosenberg jewelry store.

• Possible space for a live-
Developers of a controversial high-rise project in downtown Lexington have submitted revamped plans, but the city's vice mayor said the CentrePointe proposal remains "troublesome."

New plans by the Webb Cos. include:

- Putting the hotel lobby and entrance facing West Main Street instead of Vine Street.
- Moving the tower away from the street so the façade along Main Street is set back.

A rendering shows the CentrePointe project from a Main Street view looking on it from the east. The complex's tower is set back from the street. Rendering by Webb companies.
http://www.bgdailynews.com/

Saved 671 times between January 25, 1999 and May 1, 2016.

PLEASE DONATE TODAY. Your generosity preserves knowledge for future generations. Thank you.
http://www.themountaineagle.com/

Saved 81 times between April 28, 2001 and March 14, 2016.

PLEASE DONATE TODAY. Your generosity preserves knowledge for future generations. Thank you.
Got an HTTP 302 response at crawl time

Redirecting to...

http://www.lavozky.com/section.php?section=01&lang=esp
Comisión de Inmigración recomienda Identificaciones

Por/By: Randy Ewing | La Voz de KY
LEXINGTON – La Comisión de Inmigración se reunirá este lunes para votar ocho recomendaciones que espera presentar más tarde esta semana al alcalde Jim Newberry. Entre las conclusiones de la Comisión...

¡Keeneland, mejor que nunca!

La Voz de KY | La Voz de KY
LEXINGTON: Asistencias récord, finales de fotografía, clima inmejorable, y la crema del mundo equino con sus mejores jinetes y extraordinarios caballos se dan cita actualmente en el hipódromo de Keeneland...

Recordar, Revivir y Regocijarse en el Singletary

Por: Randi Ewing | La Voz de KY
LEXINGTON – Desde hoy hasta el 3 de noviembre, el Living Arts and Science Center LASC (Centro de Ciencias y Artes Vivas) y la galería Gloria Singletary albergarán Recordar, Revivir y Regocijarse, una...

¿Está de acuerdo con deportar a criminales bajo la ley(g)?

Está difícil pues se puede prestar a confusiones y a lo mejor sólo con vernos latino nos pueden detener y después averiguar.

– Héctor Dominguez, Tabasco, México

Yo no como mexicano si estoy de acuerdo que los deporten, pues venimos a trabajar no a hacer cosas malas y sólo queremos ayudar a nuestras familias.

– Daniel Dominguez, Veracruz, México

Eso está fuera de la política pues es una discriminación absurda, es muy difícil de entender. Son principios básicos, pero son tiempos electorales con moral.

– Luzia López, Puebla, México

More Voices in the Street >>
2016 DtMH Goals:

• National Agenda
2016 DtMH Goals:

- National Agenda
- Identify stakeholder roles
2016 DtMH Goals:

- National Agenda
- Identify stakeholder roles
- Cooperation and knowledge sharing
2016 DtMH Goals:

- National Agenda
- Identify stakeholder roles
- Cooperation and knowledge sharing
- Examine news content management systems
2016 DtMH Goals:

- National Agenda
- Identify stakeholder roles
- Cooperation and knowledge sharing
- Examine news content management systems
- Prepare students
2016 DtMH Goals:

• National Agenda
• Identify stakeholder roles
• Cooperation and knowledge sharing
• Examine news content management systems
• Prepare students
• Identify specific projects
Join us at UCLA in October!
Sign up now: www.rjionline.org/events

www.rjionline.org/jdna
@rjjdna
@e_mccain
mccaine@rjionline.org