

# UNT Libraries Digital Infrastructure

Mark Phillips  
Assistant Dean for Digital Libraries  
UNT Libraries  
December 10, 2012

# A timeline

2003 – Began working with IndexData to develop  
first infrastructure

2004 – Realized that we didn't know what we wanted

# 2005 – The Portal to Texas History launches



# *The* PORTAL *to* TEXAS HISTORY

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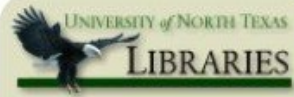
This page is currently maintained by Kurt Nordstrom and was last updated October 22, 2004.

*The Portal to Texas History* is provided by the [UNT Libraries' Digital Projects Department](#). Please send us your [comments](#).

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# 2006 – UNT Libraries' Digital Collections launches



# Digital Collections

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2007 – Scale became a problem.  
Keeping up with content and access

2008 - We took a step back...  
to rethink our approach

2009 – Portal to Texas History launched on  
Aubrey and Coda Infrastructure

### About the Portal

The Portal is a gateway to Texas history materials. You may discover anything from an ancestor's picture in a college yearbook to a rare historical map.

[Read More...](#)



### Resources<sup>4</sup> Educators

We offer teaching materials that connect your students with primary source historical documents to dramatically enrich their learning.

[See all resources...](#)

### Statistics

Currently we have a total of **250,235** unique items, comprising **3.0 million** files. Over the last **33 days**, we've logged **448,236** uses of these items by people like you.

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### Recent Additions

The Portal continues to grow as new partners contribute digital versions of their collections. See some of our latest materials here.



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### Featured Collections



#### The Greenville Morning Herald

Edwin Harris began publishing the Morning Herald, which initially consisted of four seven-column pages, but it expanded to eight after 1907. Harris died in 1912, and in 1914, cotton broker William C. Poole bought the Herald and appointed his son, Tom Reed Poole, as editor and general manager. The Poole family owned the paper until 1956, when the Harte-Hanks group merged it with the Greenville Banner to form the Greenville Herald-Banner. After...

1 2 3 4 5

[More Collections...](#)

### Featured Partner

#### Hardin-Simmons University Library

Hardin-Simmons University collections include the Bronco yearbook from 1908-2007, and the university catalogs from 1892-2008. The Bronco includes photos and information about the school, student body, professors, and organizations. The Bronco is preserved as a complete collection for the years 1908-2007, with 1918 being the only year not available due to no publication for that year. The catalogs describe the governance, history, course offerings, and campus life of Hardin-Simmons University, 1892-2008. Hardin Simmons University was founded in 1891 as Abilene Baptist College and since 1941 has been associated with the General Baptist General Convention of Texas.

[More Partners...](#)

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# 2010 – UNT Digital Library launched on Aubrey and Coda Infrastructure

### About the Digital Library

The UNT Digital Library is a centralized repository for the rich collections held by the libraries, colleges, schools, and departments at the University of North Texas.

[Read More...](#)

### Statistics

Currently we have a total of **72,054** unique items, comprising **4.7 million** files. Over the last **33 days**, we've logged **211,320** uses of these items by people like you.

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### Recent Additions

The Digital Library continues to grow as new partners contribute digital versions of their collections. See some of our latest materials here.



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### Featured Collections



#### World War One Collection

The World War One Collection contains materials that focus on the World War I era, 1914-1918. In addition to materials that were actually created during the era, the collection may include modern studies and commemorative works about the era.

1 2 3 4 5

[More Collections...](#)

### Featured Partner

#### UNT Libraries Government Documents Department

Serving as both a federal and a state depository library, the UNT Libraries Government Documents Department maintains a collection of over 1 million items in a variety of formats including print, microform, audiovisual, maps, posters, musical scores, LPs, CD-ROMs, and Web documents. The department is a member of the FDLDP Content Partnerships Program and an Affiliated Archive of the National Archives.

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# 2012 – The Gateway to Oklahoma History launched on Aubrey and Coda infrastructure



fulltext


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**Featured Items**

**111 years ago:**  
The Guthrie Daily Leader.  
(Guthrie, Okla.), Vol. 19,  
No. 15, Ed. 1, Monday,  
December 9, 1901

**94 years ago:**  
The Shawnee Daily  
News-Herald (Shawnee,  
Okla.), Vol. 24, No. 199,  
Ed. 1 Monday, December  
9, 1918

## About the Gateway

The Gateway is an online repository of Oklahoma history. You may browse through hundreds of thousands of newspaper pages dating from the 1840s to the 1920s.

The Gateway provides free access to **44,478** issues and **314,147** pages of historical newspaper content.

## Other Resources

The Oklahoma Historical Society has numerous resources for Oklahoma history. Visit the [Research Center section](#) to find out more about our books, manuscripts, maps, photographs, audio, video and other newspapers.

## Recent Additions

The Gateway is continually adding new digital newspapers. View some of the latest materials here.



## Connect to Other OHS Programs and Resources

### OKLAHOMA HISTORY CENTER

- Exhibits
- Education
- Calendar
- Blog
- Shop

### MUSEUMS & SITES

- Museums
- Historic Homes
- Military Sites
- Affiliations
- Historic Markers

### STATE HISTORIC PRESERVATION OFFICE

- Events
- Programs
- Administrative
- Survey/Planning
- Publications
- Preserve America/SAT

### PUBLICATIONS

- Chronicles of Oklahoma
- Encyclopedia
- Books in Print

### RESEARCH CENTER

- Oklahoma Resources
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- Photographs
- Manuscripts
- Newspapers
- Maps
- Oral Histories
- Film & Video

## OHS Featured



### EVENTS

Keep up to date with OHS exhibits, educational programs, workshops, reenactments, festivals and more. [View the calendar.](#)



### SUPPORT OHS

There are many ways you can support OHS in our effort to collect, preserve and share the history of our state. [Find out more.](#)



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# UNT Libraries Digital Collections

Over 400,000 unique digital items.

8 million primary files  
(pages, images, pdf files)

# Unified discovery via library website

# Libraries



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## Access:

Public (359,847)

Use restricted to UNT Community (6,373)

## Partner:

UNT Libraries Government Documents Department (84,119)

Oklahoma Historical Society (44,495)

UNT Libraries (41,038)

The Dolph Briscoe Center for American History (14,854)

Hardin-Simmons University Library (13,871)

More...

## Resource Type:

Newspaper (157,368)

Photograph (76,813)

Text (42,477)

## Search All Digital Collections

What resource does this search?

Search the Digital Collections

Search

fulltext

About the UNT Libraries' Digital Collections

Go To: UNT Digital Library | The Portal to Texas History | UNT Scholarly Works

Results 1 - 10 of 366,220



Sort by: Date Created (Newest)



### The Medallion, Volume 50, Number 1, Winter 2012

Date: Winter 2012

Creator: Texas Historical Commission

Description: Quarterly publication of the Texas Historical Commission containing articles about historic sites, events, and conservation in Texas, as well as organizational and related news.

Object Type: Journal/Magazine/Newsletter



### The Gas That Wouldn't Burn

Date: Summer 2012

Creator: Marshall, James L., 1940-

Description: Article describing how Alpha Chi Sigma members were involved with the events described on a pictured Kansas historical marker relating to the discovery of helium in a deposit of natural gas.

Object Type: Article



### Helium Monument

87 TB of 1<sup>st</sup> copy archival data in Coda

# How robust digital library infrastructure changes the conversation

Moving the conversation from how  
to what



# Examples

# Faculty scholarship

## UNT Scholarly Works

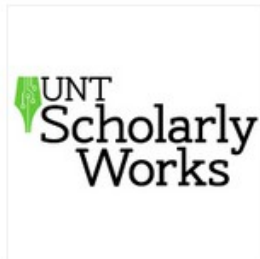
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### What's Inside this Collection.



The Scholarly Works Collection is home to materials from the UNT community's research, creative, and scholarly activities. It serves as UNT's Open Access Repository. This collection brings together articles, papers, artwork, music, research data, reports, presentations, and other scholarly and creative products representing the expertise in our university community.

UNT Scholarly Works aims to:

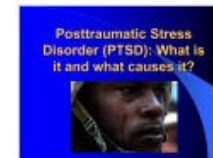
- Provide easy access to valuable scholarly and creative materials from the UNT community
- Promote discovery through effective search and navigation tools
- Secure long-term access through stewardship and preservation
- Ensure sustainability through continuing system improvements
- Showcase UNT's research and creative achievements to a worldwide audience

To learn more about UNT Scholarly Works, see [our web page](#) or contact us at [untrepository@unt.edu](mailto:untrepository@unt.edu).

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### Latest Additions

### Contributors



Posttraumatic Stress Disorder (PTSD): What is it and what causes it?

Posttraumatic Stress Disorder (PTSD): What is it and what causes it?

**Added:** 11/30/2012



Quantification of fairness bias by a Fairness-Equity Model

**Added:** 11/30/2012



Identification of functional information subgraphs in cultured neural networks

**Added:** 11/30/2012



P02.123. The anti-diabetic and

**Partner:**

- ❖ UNT Honors College (149)
- ❖ UNT Libraries (42)
- ❖ UNT College of Information (10)
- ❖ UNT College of Arts and Sciences (5)
- ❖ UNT College of Education (3)
- ❖ More...

**Department:**

- ❖ Honors College (128)
- ❖ Biological Sciences (38)
- ❖ Sociology (33)
- ❖ Political Science (28)
- ❖ Digital Projects Unit (21)
- ❖ More...

**Country:**

- ❖ United States (1)

**Decade:**

- ❖ 2010-2019 (161)
- ❖ 2000-2009 (51)

**Serial/Series Title:**

### Search Inside the UNT Scholarly Works

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#### You limited your search to:

- ✓ Resource Type: Poster ✗ Remove
- ✓ Collection: UNT Scholarly Works

Results 1 - 10 of 212



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## Empowering Digital Libraries Users through Combining Taxonomies with Folksonomies

**Date:** October 2012

**Creator:** Alemneh, Daniel Gelaw

**Description:** This poster presents discussion on empowering digital library users through combining taxonomies and folksonomies. Given the increase in the number and heterogeneity of digital resources, it has become increasingly difficult for researchers to find relevant contents in their own areas, let alone related disciplines. As more users move into the more self-structured digital environment, a new paradigm for user experience will be required.

**Contributing Partner:** UNT Libraries



## Repurposing Existing Digital Resources and Smoothing Interdisciplinary Communication: Environmental Policy Collection

## Alzheimer's Disease and Potential Benefit of Music Therapy: A Work in Progress

Brief Record Full Record Statistics



**Description:** This poster discusses research on Alzheimer's disease (AD) and the potential benefit of music therapy. People are living longer due to advancement in the medical and technology fields. In 2008, 12.8% of Americans were 65 years or older, with 10% of this group suffering from AD. Since 1980, the number of people with the disease has doubled. The cause and cure are currently unknown. AD can be devastating, as memory and functioning begin to decline and once-simple tasks become difficult. While research to find a cure is underway, music therapy may be helpful in increasing the quality of life for sufferers. When recognizable music is played, many patients are able to hum or sing along with the song despite not remembering what they had just said. This suggests that music therapy can have a positive effect on people suffering from A.D.

**Creator(s):**

- Noll, Lindy
- Eve, Susan

**Creation Date:** April 15, 2010

**Partner(s):** UNT Honors College  
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...were 65 years of age,  
Alzheimer's disease (AD). Since  
has doubled. The cause and  
stating, as memory and  
tasks become difficult.  
Music therapy may be helpful  
When recognizable music is  
going along with the song despite  
is suggests that music therapy  
from AD.

## Music therapy

Retention of skills

Learn new material

Skills for a short period of time

- The Amyloid  $\beta$  protein combined with genetic factors is currently the leading theory of how AD is created from the proteins accumulate in the brain and affect the brain's ability to function. Rats who were trained to pull levers were injected with the A $\beta$  protein. The effects wore off the next day. This suggests that the protein is not permanent. In adulthood, eventually causing AD. There are vaccines and a drug that has been developed to prohibit the protein from accumulating (241).
- The **cholinergic** hypothesis suggests that a choline acetyltransferase enzyme is used to create acetylcholine, a neurotransmitter that is essential for memory and skills (Francis 137). When given medication that blocks the enzyme, the subjects developed amnesia. A medication that can reverse these effects is donepezil.
- Since patients are able to sing words to a song, but have trouble with other tasks, it is believed that the affected parts of the brain are different. The right hemisphere is considered to be more emotional, while the left hemisphere is more logical. The earliest case study on the right hemisphere was an attack of a violent illness which resulted in a paralysis of the right side of the body and a loss of speech. He can sing certain hymns, which he had learned as a child, but he cannot communicate by making signs with his hand” (Springer and Springer 1979). **his brain being paralyzed, he was still able to sing.** AD patients

# Student scholarship

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### What's Inside this Collection.



Theses and dissertations represent a wealth of scholarly and artistic content created by masters and doctoral students in the degree-seeking process. In 1999, the University of North Texas was one of the first American universities to begin requiring electronic theses or dissertations (ETDs) for graduation. **Some ETDs in this collection are restricted to use by the UNT community.**

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#### Latest Additions

#### Contributors



Electrostatic Mechanism of Emission Enhancement in Hybrid Metal-semiconductor Light-emitting Heterostructures  
**Added:** 11/06/2012



Mathematics Anxiety and Mathematics Self-efficacy in Relation to Medication Calculation Performance in Nurses  
**Added:** 11/06/2012



9-Lipoxygenase Oxylipin Pathway in Plant Response to Biotic Stress  
**Added:** 11/06/2012



## Electrostatic Mechanism of Emission Enhancement in Hybrid Metal-semiconductor Light-emitting Heterostructures

Brief Record Full Record Statistics



**Description:** III-V nitrides have been put to use in a variety of applications including laser diodes for modern DVD devices and for solid-state white lighting. Plasmonics has come to the foreground over the past decade as a means for increasing the internal quantum efficiency (IQE) of devices through resonant interaction with surface plasmons which exist at metal/dielectric interfaces. Increases in emission intensity of an order of magnitude have been previously reported using silver thin-films on InGaN/GaN MQWs, the dependence on resonant interaction between the plasmons and the light emitter limits the applications of plasmonics for light emission. This dissertation presents a new non-resonant mechanism based on electrostatic interaction of carriers with induced image charges in a nearby metallic nanoparticle. Enhancement similar in strength to that of plasmonics is observed, without the restrictions imposed upon resonant interactions. In this work we demonstrate several key features of this new interaction, including intensity-dependent saturation, increase in the radiative recombination lifetime, and strongly inhomogeneous light emission. We also present a model for the interaction based on the aforementioned image charge interactions. Also discussed are results of work done in the course of this research resulting in the development of a novel technique for strain measurement in light-emitting structures. This technique makes use of a spectral fitting model to extract information about electron-phonon interactions in the sample which can then be related to strain using theoretical modeling.

<b>Creator(s):</b>	Llopis, Antonio
<b>Creation Date:</b>	May 2012
<b>Partner(s):</b>	UNT Libraries <a href="#">About</a>   <a href="#">Browse this Partner</a>
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## Electrostatic Mechanism of Emission Enhancement in Hybrid Metal-semiconductor Light-emitting Heterostructures

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Electrostatic Mechanism of Emission Enhancement in Hybrid Metal-semiconductor Light-emitting Heterostructures

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extremely sensitive to the threading dislocation density [3]. Therefore much effort has been made towards controlling the dislocation density in the GaN buffer sample. A number of techniques have been developed towards this end, many of which make use lateral growth to bend the threading dislocations, preventing them from reaching the surface of the buffer layer.

2.3.1 Epitaxial Layer Over-Growth

One such method is epitaxial layer over-growth (ELOG) [17]. In ELOG, a mask layer of SiO<sub>2</sub> is grown atop a GaN seed layer and partly removed to provide apertures

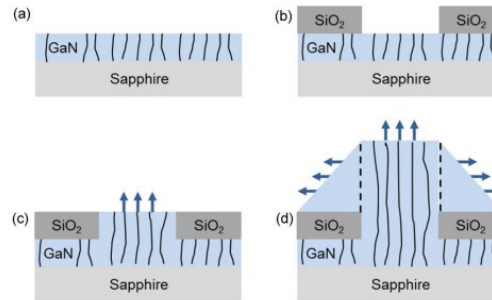


Figure 2.2 Schematic diagram of ELOG-grown GaN a, A GaN buffer is grown on sapphire substrate. b, SiO<sub>2</sub> is grown on the GaN and partly removed to create a mask to constrain growth. c, Growth is resumed, and proceeds only through the apertures in the mask, the blue arrows signal the direction of growth. d, After the mask growth proceeds normal to the surface in the seed regions and parallel to the surface in the wing regions. TDs only remain in the seed region.

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# Leveraging existing infrastructure to meet new needs

# Research data

## Joseph Britton Freshwater Mussel Collection

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### What's Inside this Collection.



### About Joseph C. Britton, Jr.

Joseph C. Britton, Jr. was born on October 14, 1942 in Fort Worth, Texas. He earned a Bachelor's of Science and a Master's Degree in Biology from Texas Christian University (1963 and 1965 respectively). He



earned a Ph.D. from George Washington University in 1970. His career began as the Assistant Director of Exhibits at the Smithsonian Institution National Museum of Natural History in Washington, D.C. where his early studies were of the marine bivalve family Lucinidae. Dr. Britton returned to his hometown of Fort Worth, Texas in the early 1970s and accepted a faculty position in the Biology Department at Texas Christian University. His research interests then transitioned to freshwater bivalves. He surveyed Texas waters for native mussels and studied the ecology and distribution of the invasive freshwater

### Latest Additions

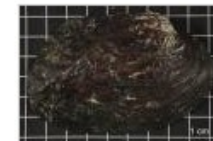
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Megaloniais nervosa,  
Specimen #1645  
Added: 07/21/2011



Arcidens confragosus,  
Specimen #1642  
Added: 07/21/2011



Arcidens confragosus,  
Specimen #1641  
Added: 07/21/2011

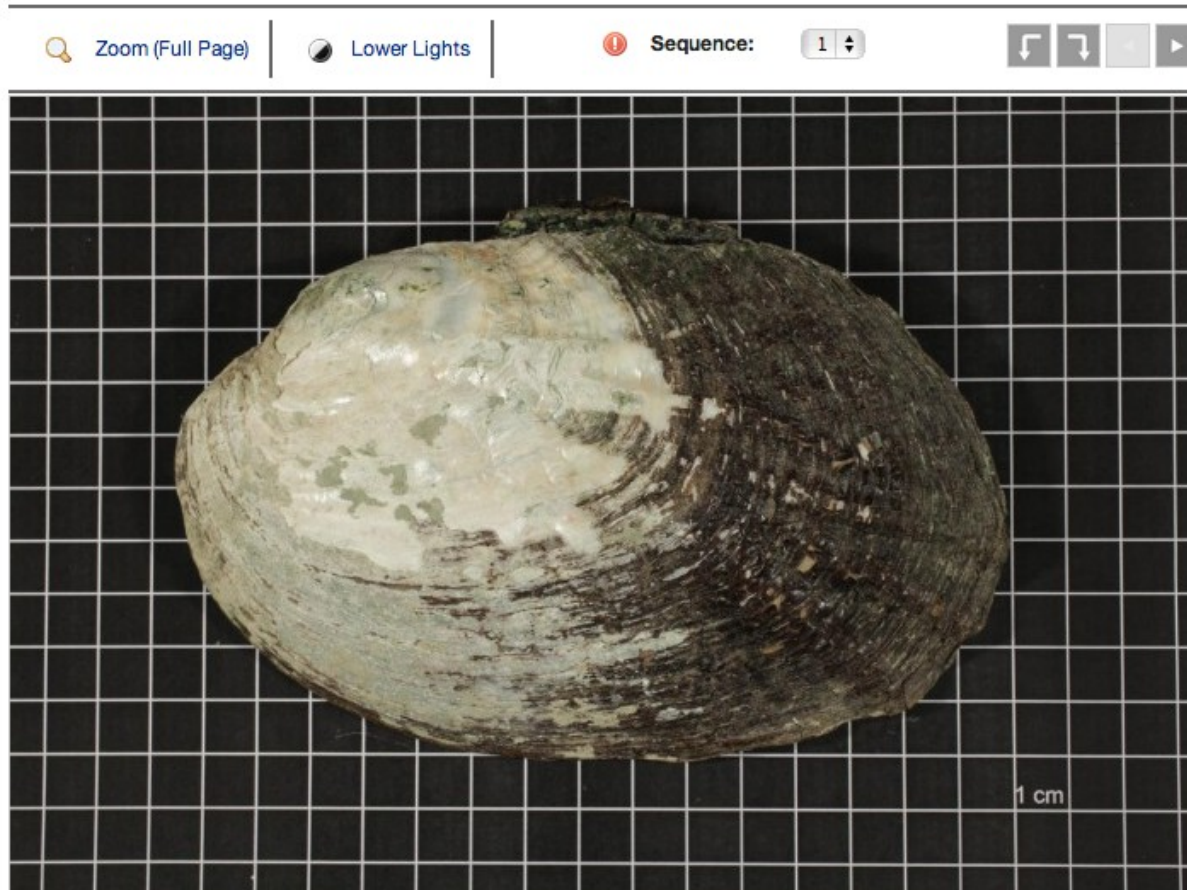


Megaloniais nervosa,  
Specimen #1647  
Added: 07/21/2011

About this Specimen

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## Megalonaias nervosa, Specimen #1647



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Megaloniais nervosa, Specimen #1647

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Sizes	Square	Thumbnail	Small	Medium	Large	Extra Large	<a href="#">Download this Size</a>
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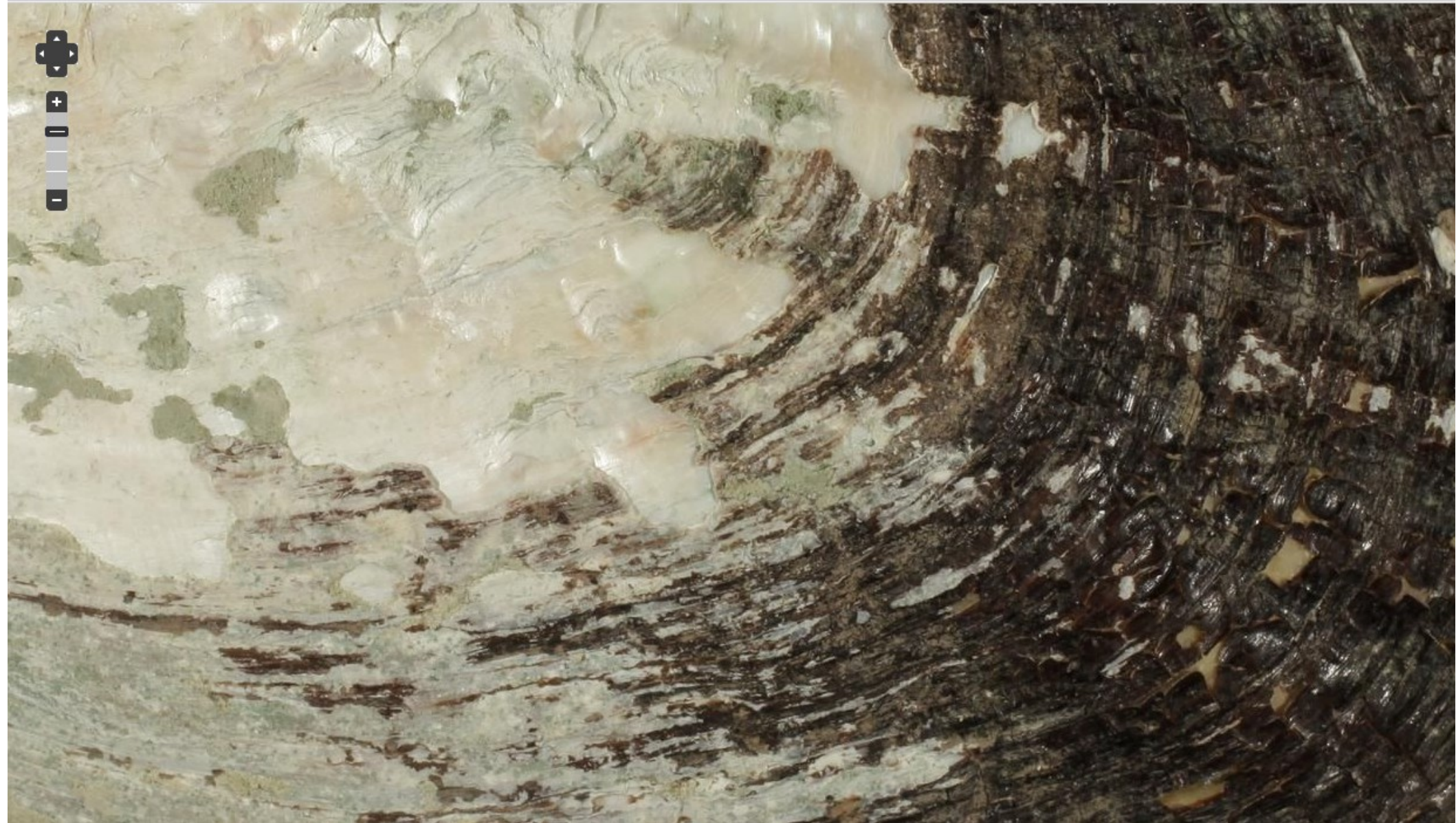
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← Normal Display



Sequence: 1

Permalink



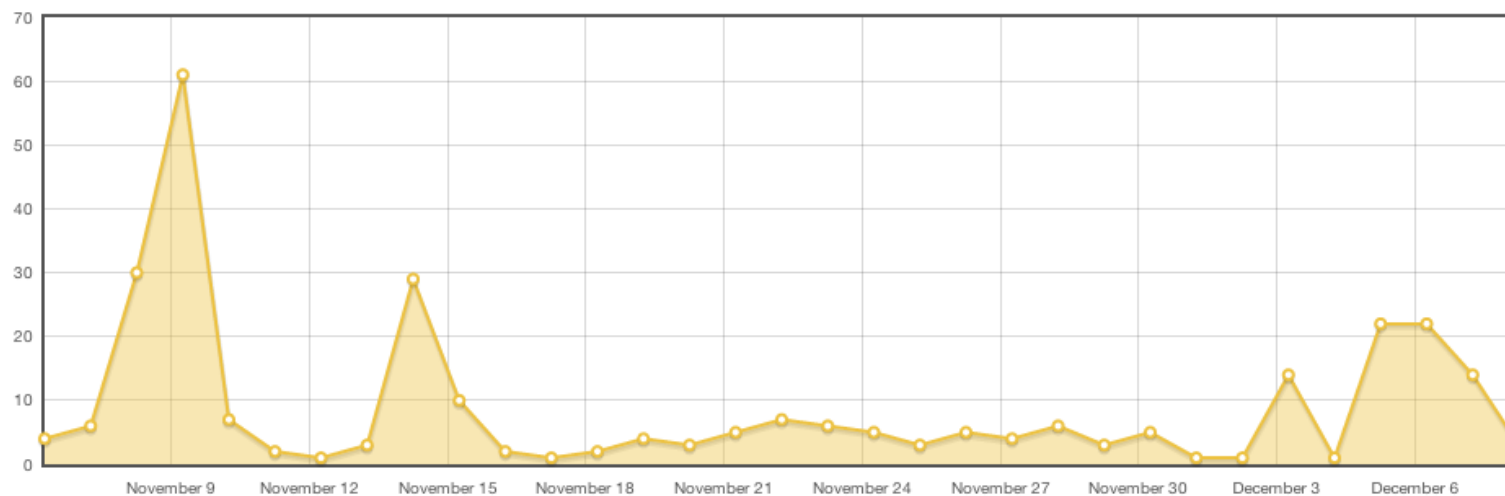
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## Statistics for Joseph Britton Freshwater Mussel Collection

Item Usage

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**3,461** Total Uses / **1,617** Total Items (7,622 files) / **1,536** Visible / **81** Hidden



### Usage by Month/Year

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2012	171	172	104	72	126	262	287	260	142	157	239	78	2,070
2011	0	0	0	0	0	156	732	94	87	127	127	68	1,391

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## Documenting Plate Waste in Middle School Cafeterias Using Digital Still Photography

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### What's Inside this Collection.



These images document the disappearance of food and beverage items by photographing trays before and after schoolchildren ate lunch. The images were taken in North Texas during lunchtime in urban middle schools that participated in the National School Lunch and School Breakfast Programs.

### About the Project

These photographs come from USDA-ERS Project #10.253, "Testing a Food Choice Innovation for Middle School Cafeterias," conducted from October 2010 to May 2011. Researchers were P. Connors, C. Bednar, B. Davenport, and L. Kennon.

### Equipment and Procedure

Three Cannon PowerShot 1400 cameras with 8 GB memory cards were used. An apparatus forming a T-aerial was constructed using 1/2 inch PVC pipe with fittings and a GorillaGripper to suspend each camera at a height of two feet above a black FOAMCORE board cut to fit the top shelf of a food trolley. To position trays directly below the camera an 8x15 inch white rectangle replicating dimensions of the Genpak five-compartment Styrofoam lunch tray was outlined on the

Latest Additions Contributors



Student Lunch Tray:  
01\_20110330\_01B59  
Added: 06/01/2011



Student Lunch Tray:  
01\_20110330\_01B59  
Added: 06/01/2011



Student Lunch Tray:  
01\_20110330\_01B59  
Added: 06/01/2011



Student Lunch Tray:  
01\_20110330\_01B59



Student Lunch Tray:  
01\_20110216\_01B6020



Student Lunch Tray:  
01\_20110216\_01B6021



Student Lunch Tray:  
01\_20110216\_01B6023



Student Lunch Tray:  
01\_20110216\_01B6024



Student Lunch Tray:  
01\_20110216\_01B6025



Student Lunch Tray:  
01\_20110216\_01B6027



Student Lunch Tray:  
01\_20110216\_01B6028



Student Lunch Tray:  
01\_20110216\_01B6029



Student Lunch Tray:  
01\_20110216\_01B6031



Student Lunch Tray:  
01\_20110216\_01B6032



Student Lunch Tray:  
01\_20110216\_01B6036



Student Lunch Tray:  
01\_20110216\_01C4195



Student Lunch Tray:  
01\_20110216\_01C4196



Student Lunch Tray:  
01\_20110216\_01C4200



Student Lunch Tray:  
01\_20110216\_01C4203



Student Lunch Tray:  
01\_20110216\_01C4205



[About this Physical Object](#)[View this Physical Object](#)[Other items in this series \(736\)](#)

## Student Lunch Tray: 01\_20110330\_01B5919

[Brief Record](#)[Full Record](#)[Statistics](#)

**Description:** Images taken at a North Texas middle school documenting the food on a lunch tray and the remains on the same tray after the meal was consumed. These images are part of a study to document what food students are eating.

**Creator(s):** [Connors, Priscilla](#)

**Location(s):** [United States - Texas](#)

**Creation Date:** March 30, 2011

**Partner(s):** [UNT College of Merchandising, Hospitality and Tourism](#)  
[About](#) | [Browse this Partner](#)

**Collection(s):** [Documenting Plate Waste in Middle School Cafeterias Using Digital Still Photography](#)  
[About](#) | [Browse this Collection](#)

**Usage:** *Total Uses: 25*  
*Past 30 days: 8*  
*Yesterday: 0*

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[About this Physical Object](#)[View this Physical Object](#)[Other Items in this series \(736\)](#)

## Student Lunch Tray: 01\_20110330\_01B5919

[More Sizes](#)[Lower Lights](#)

Sequence: 1

[Return to Search Results](#)[Citation](#)[Metadata](#)[Share](#)**More Options**[All Views](#)[All Image Sizes](#)**Feedback:**

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Connors, Priscilla. *Student Lunch Tray: 01\_20110330\_01B5919*. UNT Digital Library. <http://digital.library.unt.edu/ark:/67531/metadc35735/>. Accessed December 9, 2012.

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## Student Lunch Tray: 01\_20110330\_01B5919

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Sequence: 2

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Connors, Priscilla. *Student Lunch Tray: 01\_20110330\_01B5919*. UNT Digital Library. <http://digital.library.unt.edu/ark:/67531/metadc35735/>. Accessed December 9, 2012.

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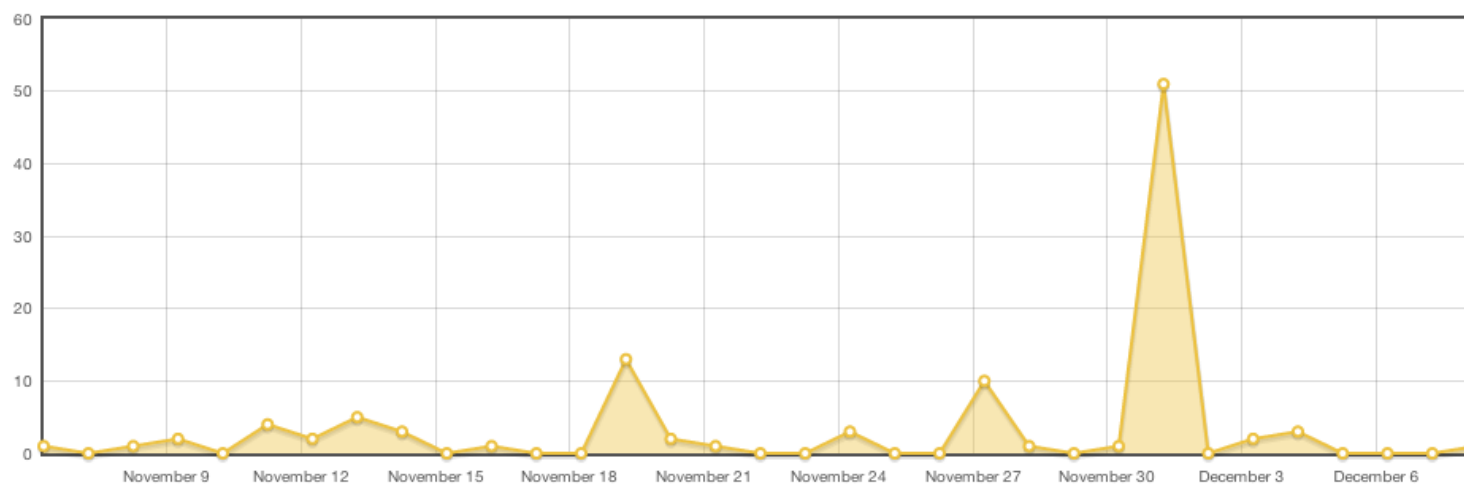


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## Statistics for Documenting Plate Waste in Middle School Cafeterias Using Digital Still Photography

[Item Usage](#)[More Data](#)

**4,238** Total Uses / **1,414** Total Items (2,830 files) / **1,414** Visible / **0** Hidden



### Usage by Month/Year

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2012	38	54	73	36	66	49	20	45	78	24	57	57	597
2011	0	0	0	0	551	1,061	1,482	174	37	55	62	219	3,641

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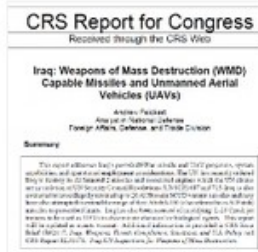
## Congressional Research Service Reports

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### What's Inside this Collection.



### About This Collection

The Congressional Research Service (CRS) does not provide direct public access to its reports, requiring citizens to request them from their Members of Congress. Some Members, as well as several non-profit groups, have posted the reports on their web sites. This site is not affiliated with the Congressional Research Service, but aims to provide integrated, searchable access to many of the full-text CRS reports that have been available at a variety of different web sites since 1990.

The information on this site is compiled and made available as a public service by the Government Documents Department at the UNT Libraries. UNT does not make any warranty as to the accuracy, reliability, or completeness of the information and is not responsible for any errors or omissions or for results obtained from the use of the information. Distribution of the information does not constitute such a warranty. Use of the information is the sole responsibility of the user.

### About the Congressional Research Service

#### Latest Additions

#### Contributors



Iran Sanctions  
Added: 11/30/2012



Intelligence, Surveillance, and Reconnaissance (ISR) Acquisition: Issues for Congress  
Added: 11/30/2012



Venezuela: Issues for Congress  
Added: 11/30/2012



Small Business Size Standards: A Historical

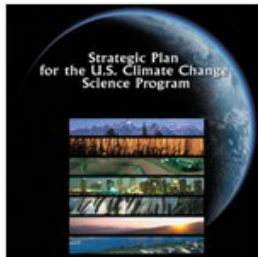
## Environmental Policy Collection

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### What's Inside this Collection.



### About This Collection

The Environmental Policy Collection contains a variety of open access resources that provide a balanced view on environmental issues and their potential consequences. The current focus of the collection is climate change, and the documents come from such agencies and individuals as:

- United States Climate Change Science Program
- National Oceanic and Atmospheric Administration
- International Geosphere-Biosphere Programme
- Climate Change and Agriculture and Food Security
- Earth System Science Partnership
- Intergovernmental Panel on Climate Change
- United Nations Environment Programme
- World Meteorological Organization
- University of North Texas (UNT) graduate students

### About This Project

The UNT Libraries are working to identify, collect, organize, and manage digital resources relevant to environmental policy. For this endeavor, the Libraries will provide digital infrastructure and stewardship to ensure permanent access to the resources.

### Latest Additions

### Contributors



**Ultraviolet Radiation Tolerance in High Elevation Copepods from the Rocky Mountains of Colorado, USA**  
**Added: 10/02/2012**



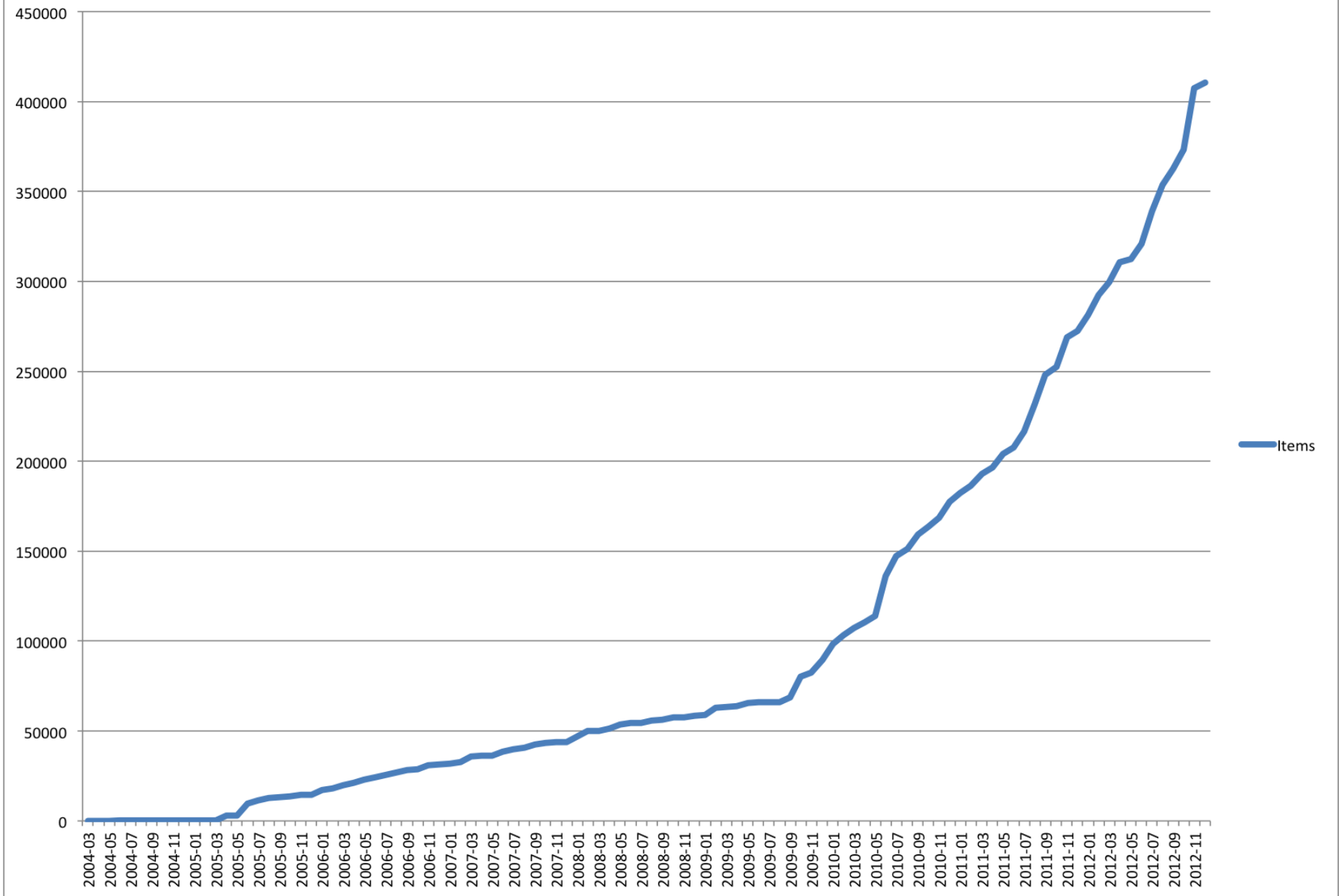
**Measuring Atmospheric Ozone and Nitrogen Dioxide Concentration by Differential Optical Absorption Spectroscopy**  
**Added: 10/02/2012**



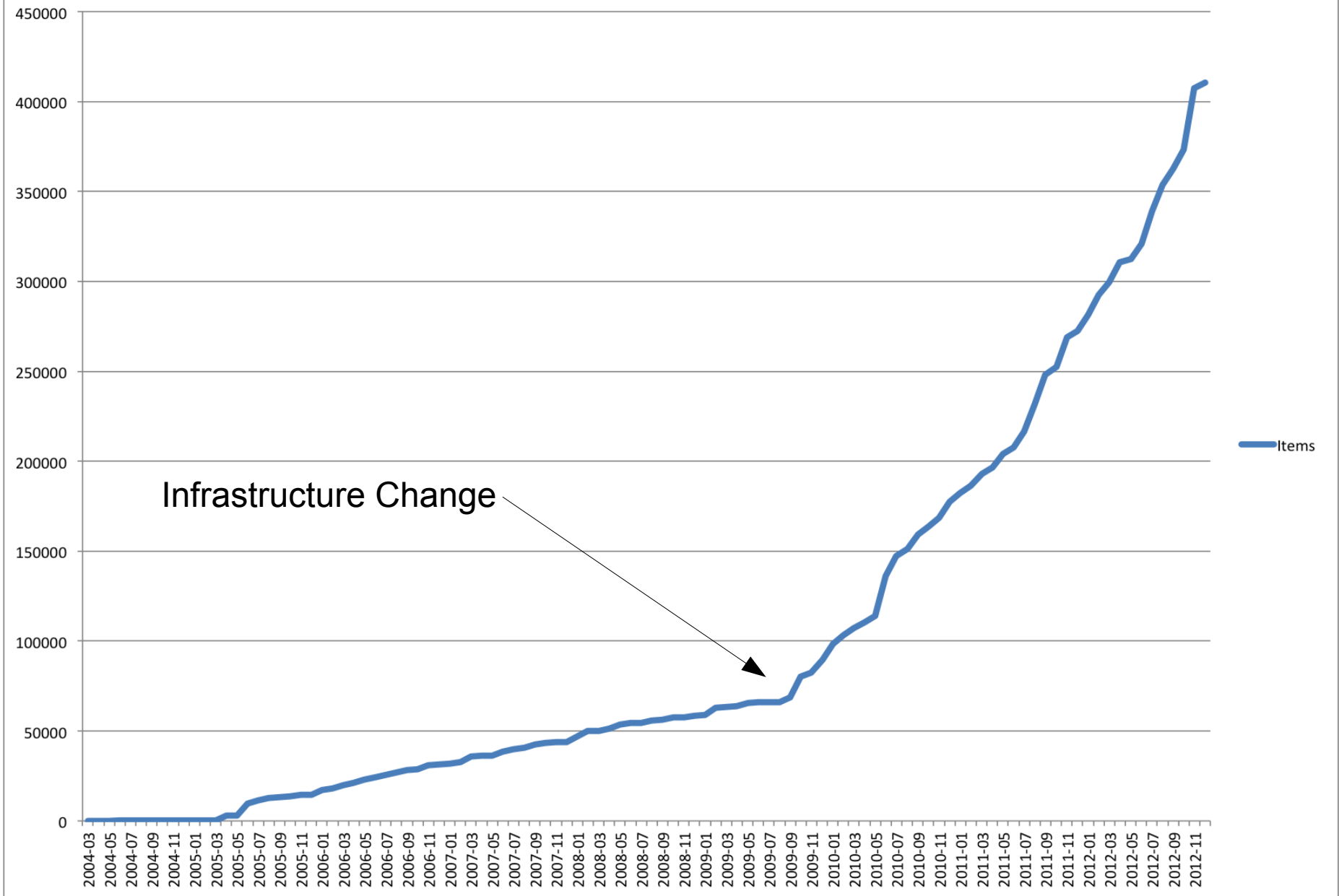
**Benthic Macroinvertebrates of Temperate, Sub-Antarctic Streams: The Effects of Altitudinal Zoning and Temperature on the Phenology of Aquatic Insects Associated to the Rohain River**

Improved infrastructure has allowed us  
to scale with demand

# UNT Libraries' Digital Collections Growth



# UNT Libraries' Digital Collections Growth



It has moved the conversation from

“How will we do it?”

to

“What do we want to do?”



Mark Phillips

mark.phillips@unt.edu

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