

Galileo's World: Driving Library Exhibitions to New Heights with State-of-the-art Technology

Carl Grant

Associate Dean, Knowledge Services
and Chief Technology Officer



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Agenda

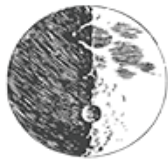
1. Introduction - University of Oklahoma Libraries
2. Creating an exhibition without walls
 - a. Physical
 - i. Bridging locations to underscore “Intellectual Crossroads”
 - ii. Building an attractive exhibition space
 - b. Virtual
 - i. Digitization
 - ii. Repository
 - iii. Website
 - iv. Virtual Reality / Timeline / Semantic Web
 - v. NavApp
 - vi. Tablet Displays
 - vii. E-books
 - viii. Hackathons
3. Lessons learned?



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**GALILEO'S
WORLD**

An Exhibition without Walls
20 Exhibits • 7 Locations • 3 Campuses



THE 125th



ANNIVERSARY

LIVE ON, UNIVERSITY

CAMPAIGN FOR THE UNIVERSITY OF OKLAHOMA



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University Goals

Library Strategic Plan

Library experience: virtual & physical

Special Collections

Research & data stewardship

Scholarly Communications

Workforce

Collections

Staff

Services

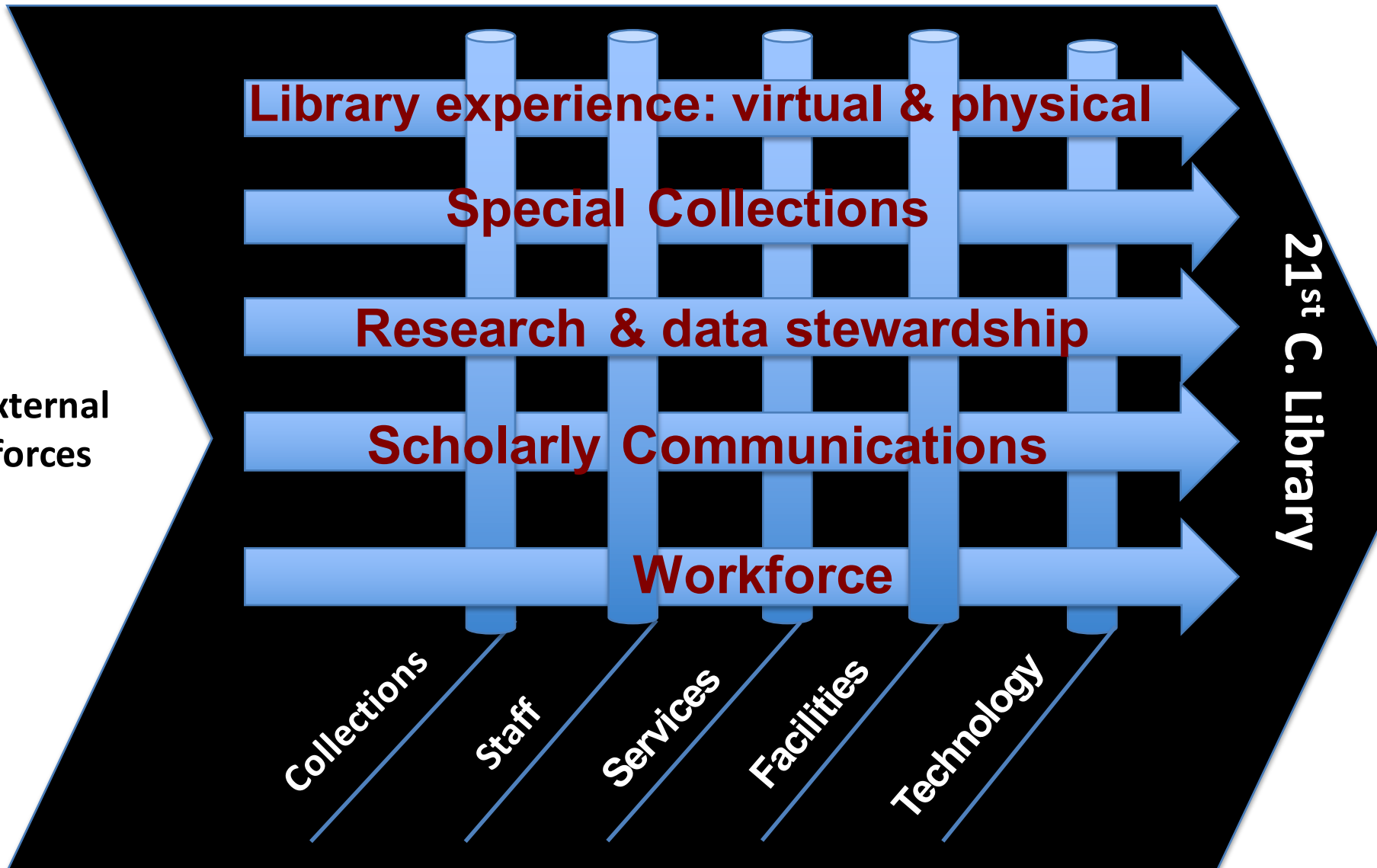
Facilities

Technology

Financial Resources

21st C. Library

External forces





OU Libraries

Intellectual

Commons

Arts & Sciences

University College

Education

Honors

ROTC

Outreach

Graduate

Liberal Studies

Architecture

International Studies

Business

Journalism & Mass Communication

Atmospheric and Geographic Sciences

Law

Fine Arts

Engineering

Earth & Energy

OU Libraries
Crossroads of the University



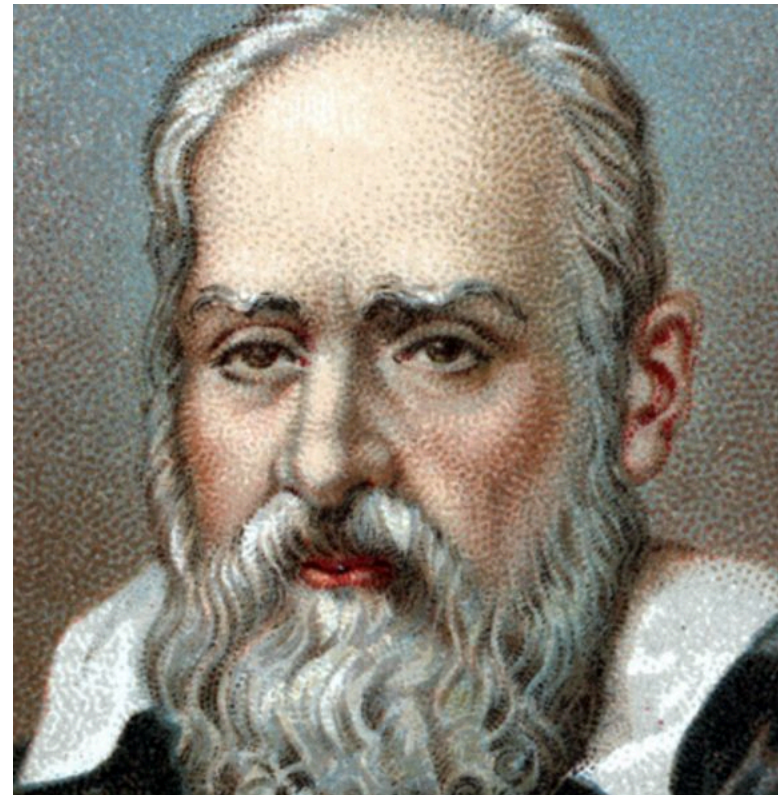
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Galileo? Why do I care?

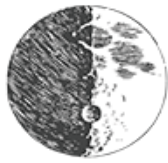
Born: Feb 15, 1564, in Pisa, Italy, Galileo Galilei was a mathematics professor who made pioneering observations of nature with long-lasting implications for the study of physics. He also constructed a telescope and supported the Copernican theory, which supports a sun-centered solar system. Galileo was accused twice of heresy by the church for his beliefs, and wrote books on his ideas. He died in Italy, on January 8, 1642.



<http://www.biography.com/people/galileo-9305220>



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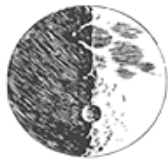


Major goals of G.W. Exhibition:

- Celebrate the 125 anniversary of the University.
- Emphasize the library as the intellectual crossroad, bring the University together around the exhibit
- All should be able to go and see it (physically or virtually)
- Make it appealing to scholars, public & youth
- Show the importance of science and that knowledge builds on knowledge



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Why are Libraries, like OU, engaging in exhibitions?



FIND

GET HELP

SERVICES

LIBRARIES

ABOUT

Search books, articles, journals, website



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Exhibit Program Guidelines

The NCSU Libraries' exhibition program emphasizes the creation of temporary, museum-quality exhibits and related materials in support of the Libraries' mission. Specific goals for the exhibition program include:

- > sharing and interpreting library collections and promoting their scholarly use;
- > supporting the Libraries' role as an intellectual center of the university;
- > providing a gathering place for the university to educate, enrich, and interact with the community; and
- > fostering relationships between the NCSU Libraries and NC State students, faculty, staff, alumni, and visitors.



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Major Special Collections @ OU

- **Bizzell Bible Collection**
- **Harry W. Bass Business History Collection**
- **History of Science Collection**
- **Johan and Mary Nichols Rare Books and Special Collections**
- **Western History Collections**
- **Daniel and Ruth Boorstin Collection**



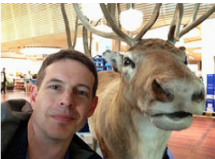


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Consulted with:

Michael Peter Edson

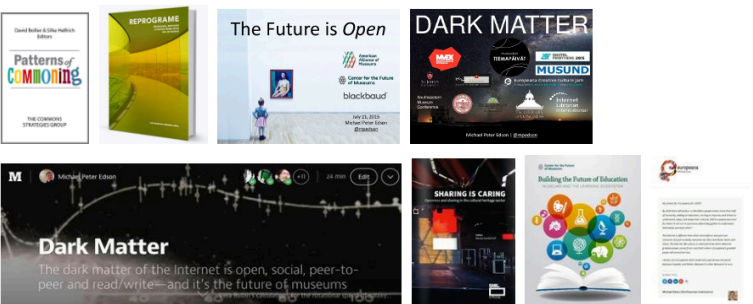


I'm interested in the future, I love strategy, and I love helping GLAMs (galleries, libraries, archives, and museums) to succeed.

I'm a digital strategist at the [Smithsonian](#), a [Distinguished Presidential Fellow](#) at the Council on Library and Information Services (USA), and a member of the [Open GLAM advisory board](#) at the Open Knowledge Foundation.

Twitter: [@mpedson](#)
 Tumblr: [usingdata.tumblr.com](#)
 email: [edsonm\[at\]si\[dot\]edu](#)
 Bio - - [at the bottom](#)

Recent Work



<http://michaelpeteredson.wikispaces.com>

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EMORY PROFILE >>

Julie Delliquanti: Creating engaging exhibits

By Kimber Williams | Emory Report | Sep. 7, 2012



Julie Delliquanti, Schatten Gallery director, is a curator of library exhibitions and of local culture.

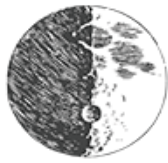


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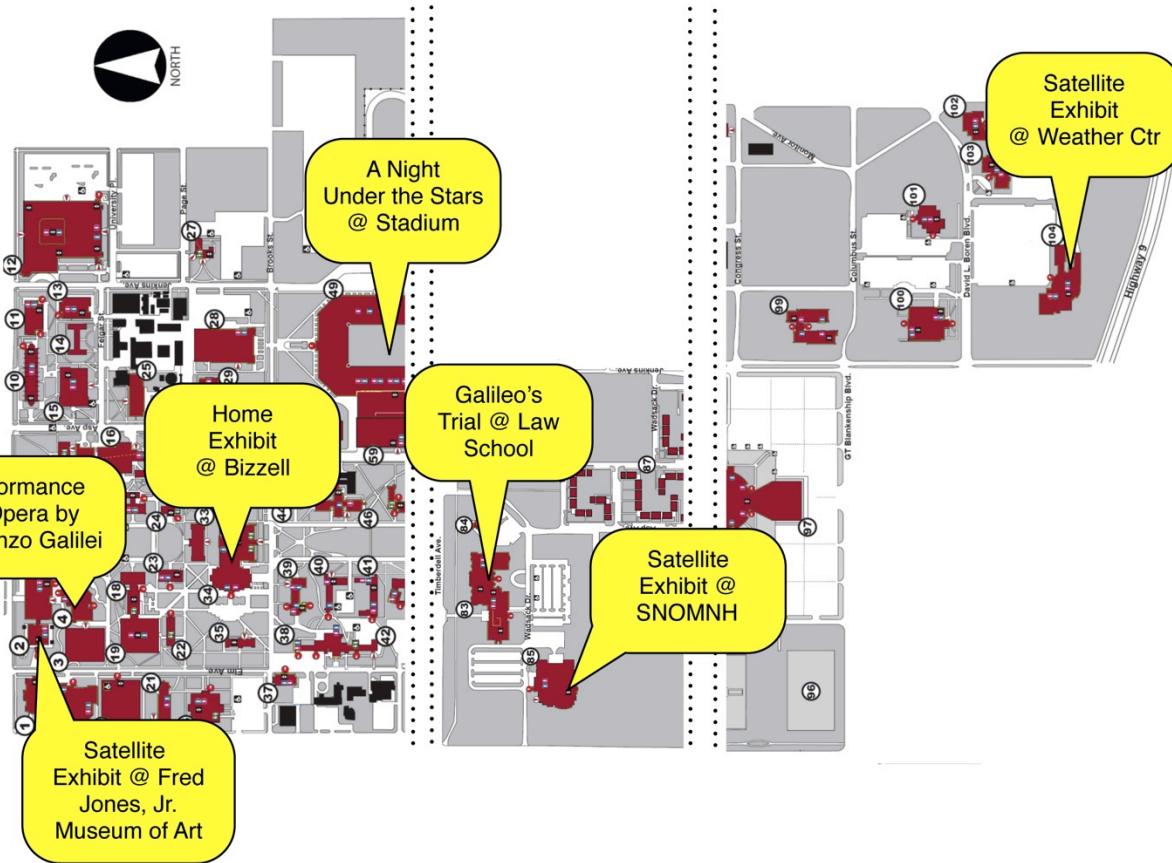




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Bizzell Memorial Library
[Exhibit Info](#)



Fred Jones Jr. Museum of Art
[Exhibit Info](#)



Headington Hall
[Exhibit Info](#)



National Weather Center
[Exhibit Info](#)



Robert M. Bird Health Sciences Library
[Exhibit Info](#)



Sam Noble Museum
[Exhibit Info](#)



Schusterman Library
[Exhibit Info](#)



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G.W. Exhibition brings together a total of:

- 3 Campuses
- 7 Different Locations
- All linked together and supported by technology, programs, website and resources

*Supporting the theme:
“Crossroads of the University”*

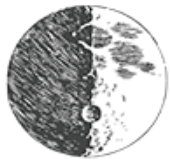


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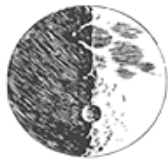


Featured in main lobby of Library:

- 20 foot replica of Tower of Pisa
 - Built by College of Engineering
 - Operating ball drop simulating Galileo's reported test
 - Speeds calculated and reported to user



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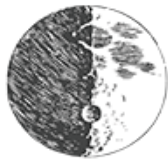
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Digital Tech Square, Main Floor – Bizzell Memorial Library



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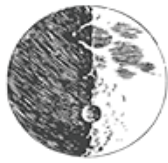
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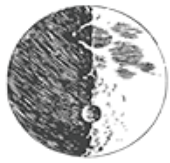
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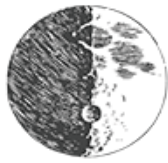
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5th Floor – Special Collections – Bizzell Memorial Library



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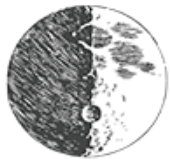
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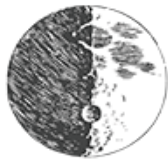


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Lower Level 1 – HCLC – Bizzell Memorial Library



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Total Physical Exhibition Visitors

- August - 433
- September – 1,468
- October – 1,633
- November – 1,521



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COMING IN 2016

Sam Noble Museum | National Weather Center | Fred Jones Jr. Museum of Art

Jan. 21 *Galileo's World: An Artful Observation of the Cosmos*
Fred Jones Jr. Museum of Art

Feb. 6 *Through the Eyes of the Lynx: Galileo and the Microscope*
Sam Noble Museum

Feb. 25 *Symposium*
Sam Noble Museum

Apr. 15 *Visiting Author, Dava Sobel*

Aug. 28 *Stadium Under the Stars*

Sept. 10 *Galileo's Torch*

Events are subject to change. Please visit galileo.ou.edu for more information.

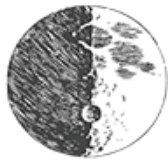


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Digitization

Over 250 books & maps
(~108,000 pages) were
digitized in their entirety to
support exhibition.



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DigiLab @ University of Oklahoma Libraries



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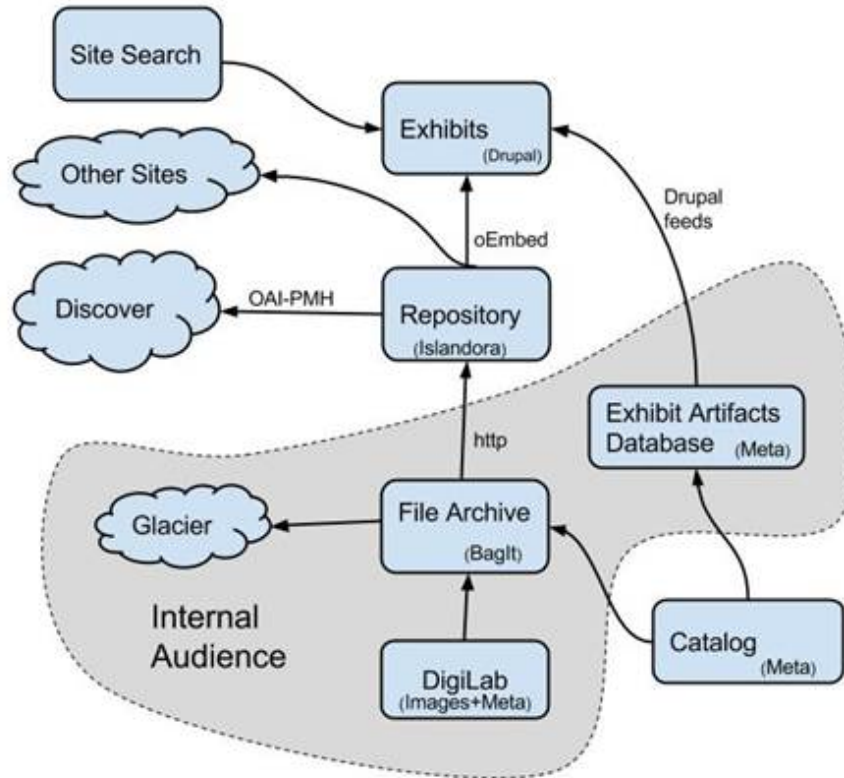
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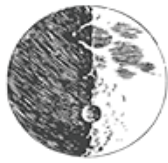
Repository

Installed Fedora repository with an Islandora interface and launched it, with content, for opening of Galileo's World.



Item Content Flow





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Visitor Site

Deadline: June 1st

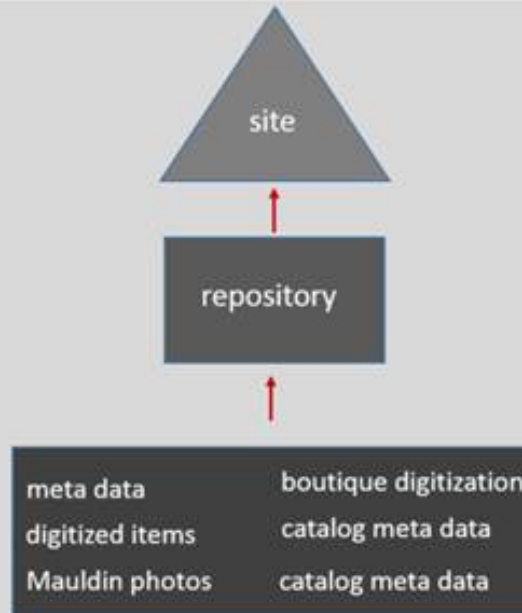
The definitive place for visitor information about the exhibits, locations, events.



Virtual Exhibit

Deadline: July 1st

Everything on physical display will be on virtual display as well.



Supplemental

Deadline: Ongoing

Home for open educational resources developed.

- Lesson plans
- Podcasts
- Videos
- OERs
- Reading groups

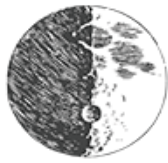


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Website

<http://galileo.ou.edu>

Drupal based website developed

- Descriptions from the Curator
- Images of every item in exhibit
- Embedded book viewer for most works
- Information on all exhibits, events, programs, educational resources.
- Links to social media.



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Sample Webpage

HOME EXHIBITS LOCATIONS EVENTS VISITORS EDUCATORS NEWS



CONTROVERSY OVER THE COMETS

What does it mean to say that mathematics is the language of nature?

EXHIBIT SECTIONS

Comets

Since antiquity, comets had posed an enigma. They appear without warning. They do not stay within the Zodiac like the planets. They come from different directions. Their speed and brightness change radically. Their tails always point away from the Sun. Parallax was observed for the Moon but not for comets, which implied that comets are farther away than the Moon, contrary to Aristotle's argument that comets are fiery vapors in the upper atmosphere.

Controversy

While mathematicians defied the attempts of physicists and theologians to discount their conclusions, mathematical methods alone were not able to explain the appearance of comets, parallax, and diverse systems of the world. Galileo advocated for the Copernican theory of the universe, while disregarding the system of Tycho Brahe.

Systems of the Universe

Earth-centered models of the universe, geocentric, and sun-centered models of the universe, heliocentric, equally predicted the position and movement of the planets. Given that the competing systems produced identical planetary predictions, astronomers searched for other kinds of observations that might decide between them. Comets seemed to cross through multiple spheres. The spheres of Mars and the Sun seemed likely to intersect. Several systems predicted that Venus might show phases. The Copernican system predicted stellar parallax, that stars should appear to slightly shift in position, which was not observed. Definitive evidence that could decide the true system of the universe proved elusive.

Explore the Topic

Supplemental resources for a rich educational experience



Copernican System

Learn more about the Copernican system in which the Sun is immobile at the center of the universe.

[Add to Favorites](#)



Tycho Brahe's System

Learn more about Tycho Brahe, who built the large astronomical observatory of Uraniborg in Hveen.

[Add to Favorites](#)

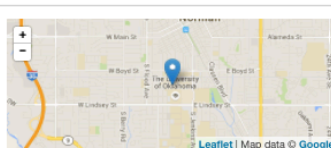
CONTROVERSY OVER THE COMETS

Aug 19, 2015 - Aug 31, 2016

Galileo's controversy over the comets illustrates how difficult it can be to implement novel research methods in science.

Galileo believed that mathematics is the language of nature. He challenged the established discipline of natural philosophy, or physics, which used non-mathematical methods.

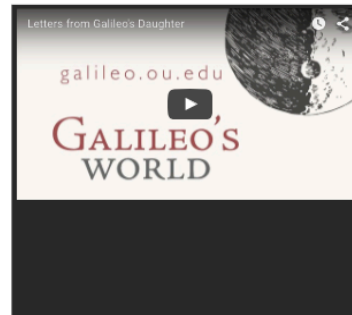
Galileo's defenses of mathematics as the language of nature occurred in the midst of controversies with fellow mathematicians. Even for mathematicians, mathematical methods alone proved unable to resolve the enigmas they faced.



Bizzell Memorial Library

5th Floor Special Collections

[Add Exhibit to Itinerary](#)



Gallery Guide

Download a guide for this gallery.



Format

- iBook
- PDF Version

Exhibit Highlights

Essential items for a core understanding

- Tycho Brahe, *Instruments for the Restoration of Astronomy* (Nuremberg, 1602)
- Johann Hevelius, *On Comets* (Gdansk, 1668)
- Galileo, *The Assayer, early state* (Rome, 1623)
- Oratio Grassi, *Treatise on the Spheres* (Rome, 1623)

Virtual Browse

Browse exhibit books on display



Nicolaus Reimarur Ursus, *Astronomical Fundation* (Strassburg, 1588)



Tycho Brahe, *Astronomical Letters* (Uraniborg, 1596)

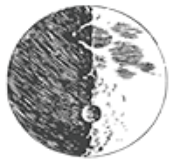


Christoph Clavius, *Commentary on the Spheres of Sacrobosco* (Rome, 1570)



Tycho Brahe, *Complete Works* (Frankfurt, 1648)

[prev](#) [next](#)



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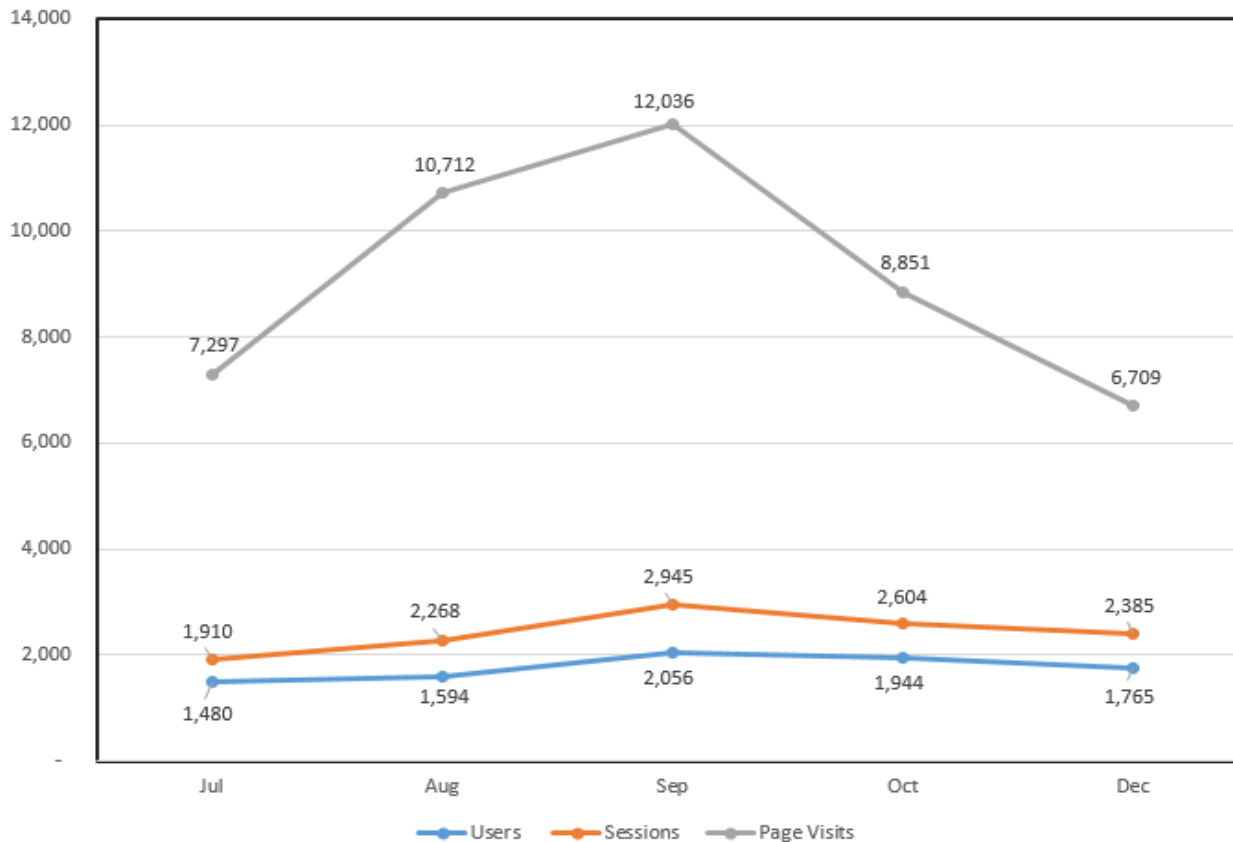
An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses



Total Website (w/o Walls) Exhibition Visitors

Chart Title

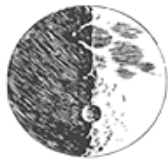


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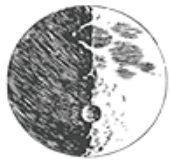
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Virtual Reality



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Virtual Reality



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DISCOVER!



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[Advanced Search](#)

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OU HISTORICAL TIMELINE



Students studying in the library

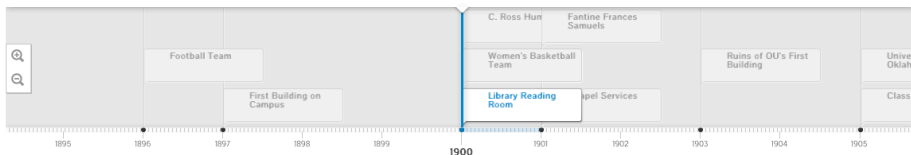
1900

Library Reading Room

The 1898-99 "University Catalogue" reported that the reference library in the university's first building contained two thousand volumes. The reading room, shown here, was connected to the library and was advertised as offering the nation's leading newspapers and other periodicals.

1900

C. Ross Hume



libraries.ou.edu/timeline

Browse online to learn about the interesting people, places and events throughout our history that have shaped OU, or visit the OU History exhibit in our Western History Collections (Monnet Hall).



*This computer is reserved for those wishing to browse the timeline.
Please use another workstation for personal research.*

Explore OU History



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An Exhibition without Walls

20 Exhibits • 7 Locations • 3 Campuses



MooMat's CultureScout implementation of Galileo's World is downloadable from the App Store

Have you heard of the game "Six Degrees of Separation?" It may not be obvious, but every person can likely be connected to Galileo Galilei. Galileo has had a profound impact on modern culture, including science, art, literature, music, fashion, and much more.

The **Galileo's MooMat App** helps you discover the many connections to Galileo by linking you to people, places, and things that are somehow tied to his world.

Making Connections

Start screen Media player

Tap either:
 'info' to read about it
 'look' to view images
 'listen' to hear audio
 'map' to view locations
 'links' to view related websites

Tip these arrows to go back or forward

Select here from the list of available connections. The contents of which appear on the bottom bar below

Swipe

What interesting connections can you find?


AT&T LTE 4:38 PM 46%

iPad Only Any Price All Categories By Relevance All Ages galileo world

GPS World North Coast Media LLC GET In-App Purchases

Soccer Fat Fish Games Ltd GET In-App Purchases (18)

Galileo's World [4+] Moomat LLC >

 GALILEO'S WORLD

OPEN

Details Reviews Related

Description

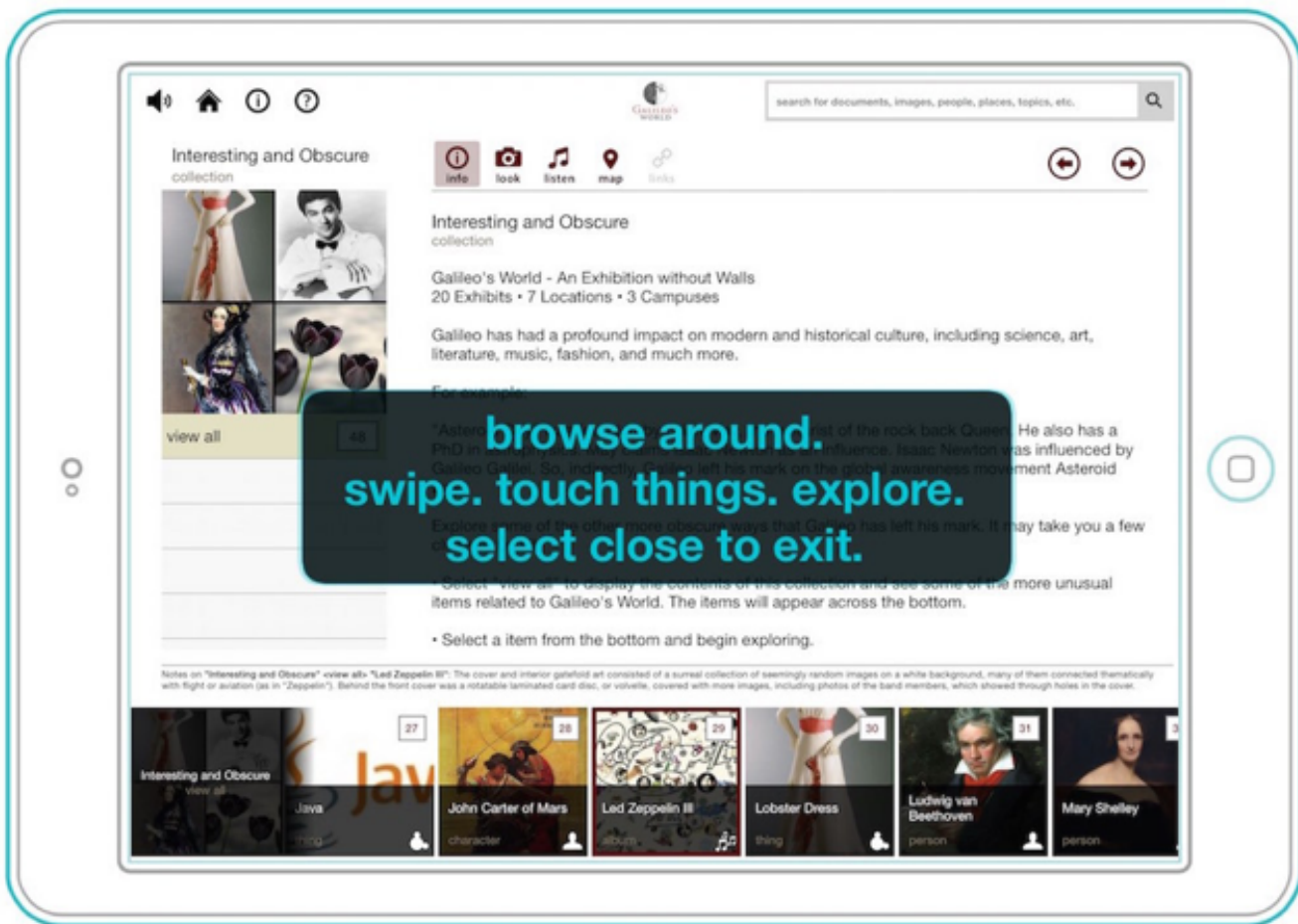
In celebration of University of Oklahoma's 125th anniversary, Galileo's World is a series of exhibits, events, and programs. 20 exhibits, 7 locations, 3 campuses. It's an exhibition without walls.

The story of Galileo reveals the creativity and interconnectedness of human achievement. Galileo's works illustrate a lifetime of engagement in science, art, literature, music, religion, philosophy, politics an ...[more](#)

World Cup Goalie Challenge 2014 GET

World Soccer Bearpa - The Best... GET

Featured Top Charts Explore Purchased Updates



Agenda

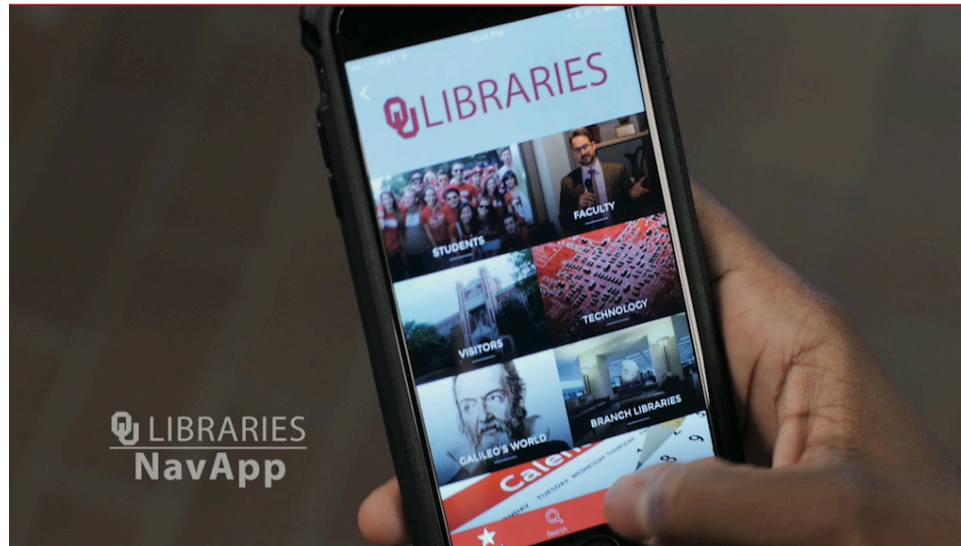
1. Introduction - University of Oklahoma Libraries
2. Creating an exhibition without walls
 - a. Physical
 - i. Bridging locations to underscore “Intellectual Crossroads”
 - ii. Building an attractive exhibition space
 - b. Virtual**
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GALILEO'S
WORLD

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OU Libraries developed its first mobile app, OU Libraries NavApp

- For iOS and Android
- Provides Bluetooth-beacon-based indoor navigation in OU's main library (Bizzell), exhibit case-specific content and,
- GPS-based outdoor navigation across the OU Norman campus



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Goals of NavApp?

- Unify digital/physical campus resources
- Simplify complex indoor (and outdoor) environments
- Support Galileo's World exhibition across campus
- Generate campus-wide interest in innovative tool
- Feed useful content based on location and user type
- Provide analytics for gauging resource usage throughout campus





An Exhibition without Walls

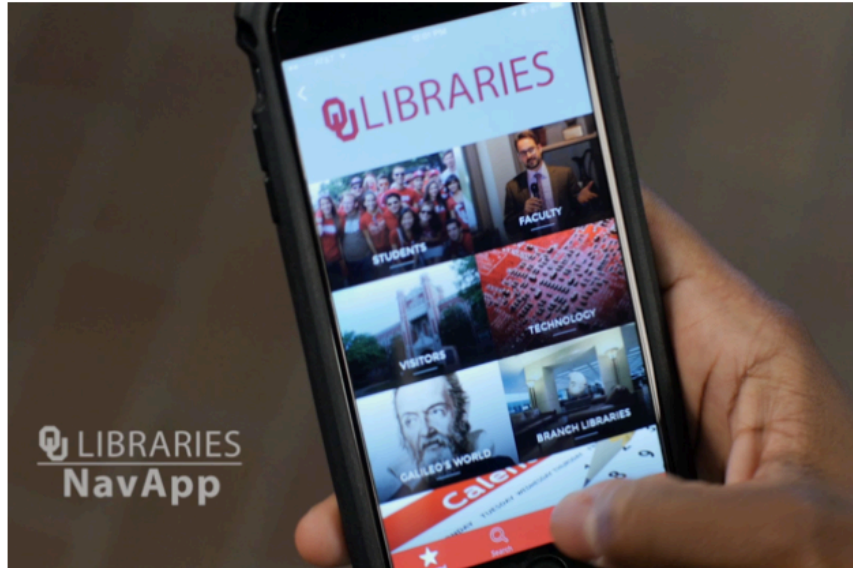
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Usage of NavApp (2 Months)

- Unique Users: 1,160
 - ~900 iOS
 - 775 iPhones alone
 - ~300 Android
- Screen Views: 19,673
 - Per visitor: 16.5*
- Buildings Covered: 4 + Campus
 - Beacons Deployed: 400
 - Outdoor, campus map includes *all* major campus buildings + collections



NEWS Oklahoma Sooners use beacons, sensors in classrooms on massive campus



The University of Oklahoma has created an app that students can use to navigate to group meeting rooms and other locations on campus using Aruba beacons and sensors. Credit: Aruba

Beacon technology still in early-adopter stage, analysts report



By **Matt Hamblen** FOLLOW

Computerworld | Dec 2, 2015 3:00 AM PT

RELATED TOPICS

Wireless Networking

Mobile & Wireless

The University of Oklahoma has begun rolling out beacon technology to help students find study rooms and class information at the central library and other buildings by using their smartphones about the vast campus in Norman, Okla.

< [Cooking up Faster Mobile Image Processing](#) [Study: Millennials Spend More Than 3 Hours a Day on Mobile Phones](#) >

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Mobile

U Oklahoma Libraries Launches Navigation App

By **Rhea Kelly** | 08/25/15

Patrons at the **University of Oklahoma Libraries** can now navigate the system's collections, exhibits and campus landmarks via smartphone. The university has deployed **Aruba Beacons** and the **Aruba Meridian Mobile App Platform** to create the OU NavApp, a mobile app that provides turn-by-turn directions, location-based information and educational content to help students, faculty and visitors find their way through the seven-floor, 400,000-square-foot library system.

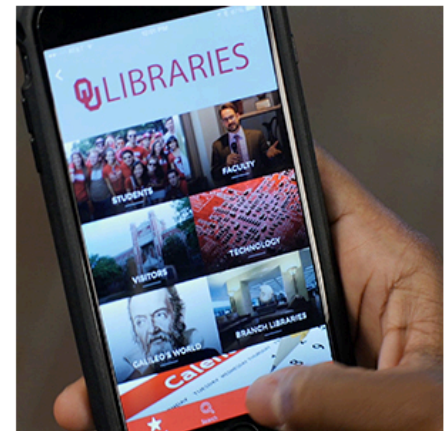
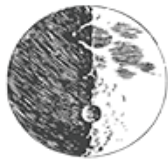


Photo: Business Wire

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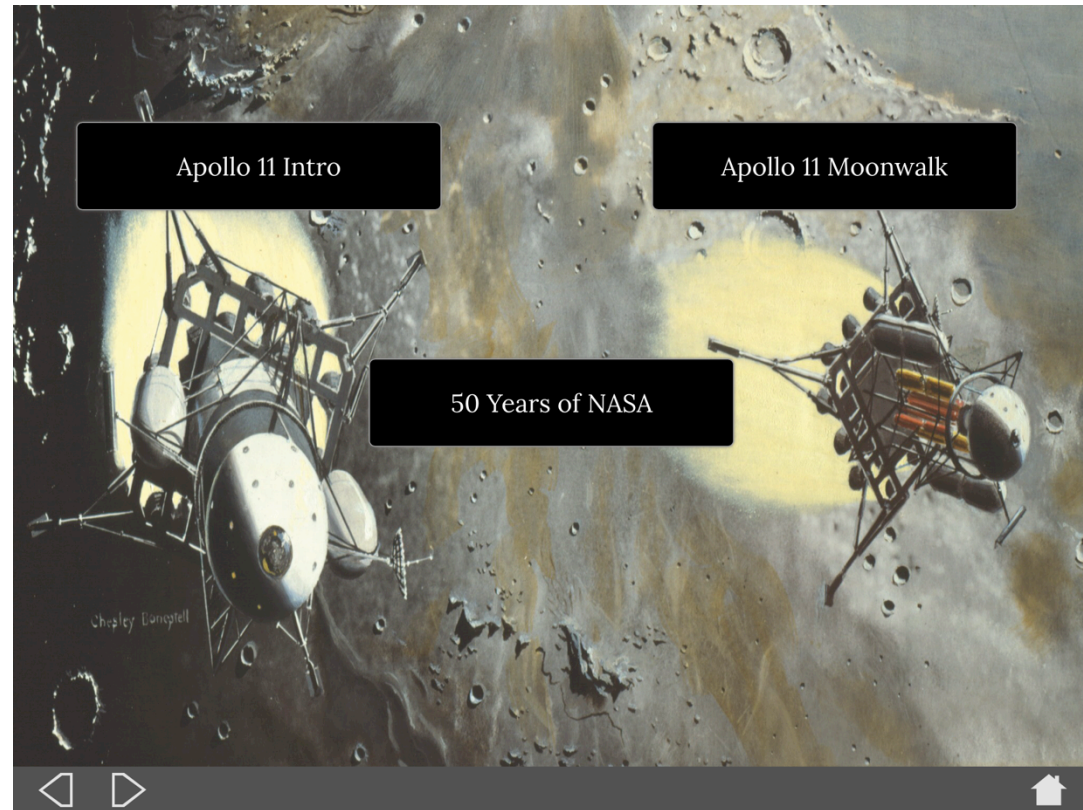
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Tablet Displays

Developed a separate app for each nook in Digital Technology Square, including:

1. Dawn of Space Age
2. Mars and the Imagination
3. Quest of Other Worlds

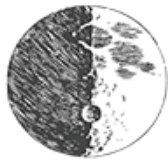


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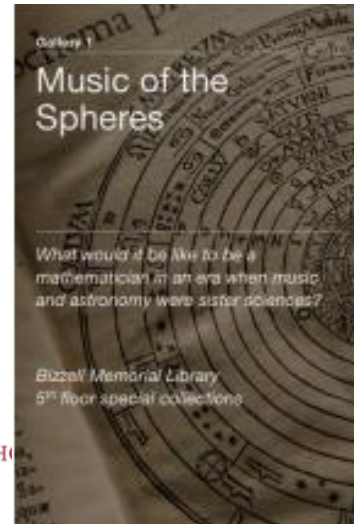
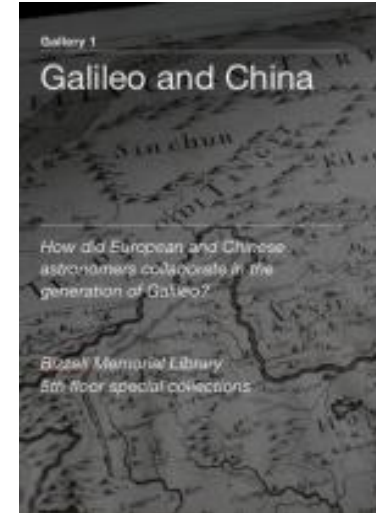
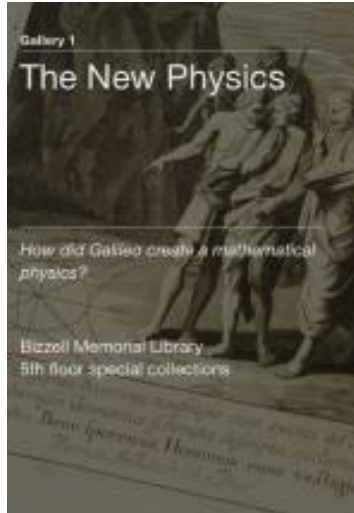
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E-Books

- Created “Gallery Guides” using iBook Author
- Done for the 5th floor exhibits only
- Offered 2 versions:
 - PDF for people w/o iPads
 - iBook version (fully interactive)



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Hackathons

- One U Cup - working on a Galileo's World VR session with Verizon
- Digirlz session, - working on a session with Microsoft



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Lessons Learned?

- Know, and share widely, the vision/objectives of the exhibit
 - Do they support the larger organizational objectives?
 - What should the end-user experience be? Develop user stories
- Define the scope of the exhibit
 - Document and define in an MOU w/all parties. Signed!
 - Include counts, timelines, milestones, desired impacts & measures
- “A²DBD” – Always Digitize Before Display
 - Ensure legal permissions are in place

Lessons Learned?

- Apply project management techniques
 - Ensure all parties are present at all stages of creation of the plan
 - Develop and share critical paths also Plans “B” & “C”
 - Know order lead and delivery times on technology components. Is this in the project plan?
 - What are the quality checks? By who? When? How often?
- Use agile techniques and break down silos that might exist between the teams
- Plan the promotion/marketing well ahead
 - Don't forget social media promotion plan!

Future Plans?

- Implement support of IIF
- Support more hack-a-thons & events, i.e. “Stadium under the Stars” event in the OU Football stadium
- Moving to a “DevOps” approach to future exhibitions
- Implement website ideas described in this book...

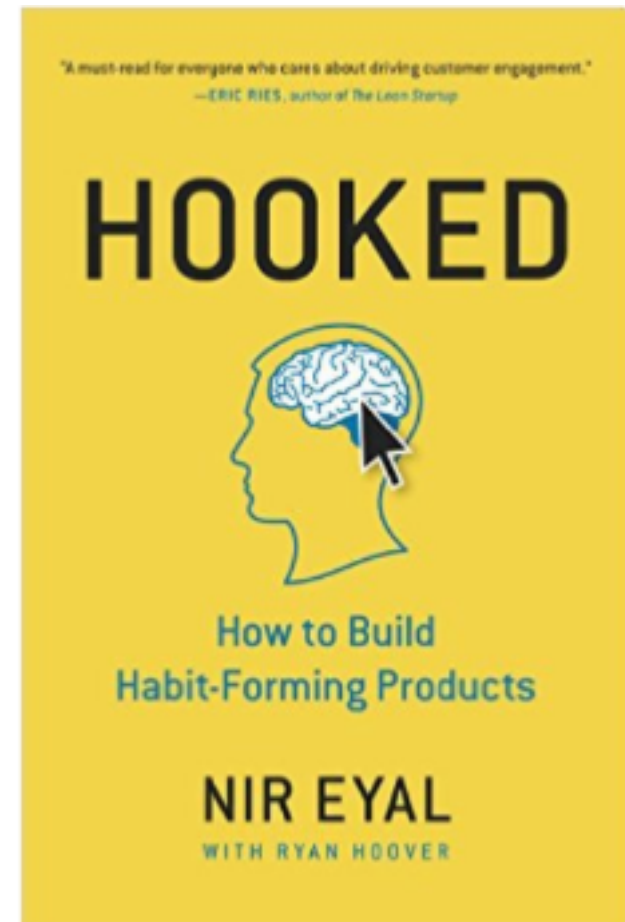


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Recommendation

Read and use this book's ideas in your exhibition websites



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Q & A

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