

Center for Technology & Innovation, Inc.

321 Water Street, Binghamton, NY 13901

607-723-8600 www.ctandi.org

Future home of Tech Works! museum

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PRESS RELEASE - 17 May 2012

The Center for Technology and Innovation (CT&I) has selected a design team for development of Tech Works!, a center to showcase upstate New York's concentration of inventions and explore the innovation process. We have confidence that the team lead by the Bucher Borges Group can deliver the desired product in the most cost effective and timely manner.

The primary partners in the Tech Works! design team are Bucher Borges Group, Washington, DC; Delta Engineering, Endwell, NY; Eisterhold Associates, Kansas City, MO; and the Public Archaeology Facility at BU, along with other nearby firms. Survey, testing, and design will proceed through the end of 2012, with construction documents targeted for bid in January 2013. Construction is expected to be performed largely by local companies, beginning in Spring 2013. Phasing of Tech Works! construction will be determined by funding availability.

The Tech Works! design team was selected from six teams who submitted thoughtful proposals in response to a formal request for proposals in March. Eighteen firms participated in the pre-bid site visit and more in the pre-bid Q/A conference call.

CT&I's challenge was to find a team that offered an integrated approach to the wide variety of donor-driven expertise required for the timely development of Tech Works!. The design skill sets for Tech Works! include respectful rehabilitation of vintage buildings, storm water management, outdoor experiences for multi-generational audiences, Smithsonian quality artifact handling, displays, and environmental controls, principles of green design, with an emphasis on geothermal and emerging 21st century energy technologies. The team led by Bucher Borges Group offered the most integrated, complete, and cost effective proposal.

In particular, the Tech Works! concept plan calls for a new approach to engaging teenagers, adults, and life-long learners in the innovative processes of science, technology, engineering and entrepreneurship. We have confidence that the Tech Works! interpretation of technical and creative processes for adults and life-long learners will lead to continuing the tradition of technical creativity that has been the hallmark of upstate New York for more than a century.

For more details of the TechWorks! design team experience, visit www.ctandi.org/TechWorks! or contact Susan Sherwood, 607-723-8600.

TECHWORKS! A Museum of Invention and Upstate NY Industry

TEAM PROFILE



RELEVANT EXPERIENCE

RELEVANT EXPERIENCE: SITE IMPROVEMENTS



RELEVANT EXPERIENCE: BUILDING CODES & ADA



OCCUPANCY & EGRESS CALCULATIONS

BUCHER/BORGES GROUP PLLC
30-Jan-11

321 Water Street
Binghamton, NY

ALLOWABLE FLOOR AREA TABLE

SPACE	EXISTING AREA SF	CONSTRUCTION TYPE	USE	ALLOWABLE AREA SF TABLE 503	200% SPRINKLER INCREASE	6.33% FRONTAGE INCREASE	TOTAL ALLOWABLE AREA
A1 (1912 Engine)	4,000	IIIB (Brick w/ Wood Frame)	S2 (Low Hazard)	in B1 area			
B1 (1912 Engine)	2,903	IIIB (Brick w/ Wood Frame)	A3 (Museum)	9,500	19,000	601	29,101
C1 (1912 Tile Room)	3,783	IIIB (Brick w/ Wood Frame)	A3 (Museum)	in B1 area			
D1 (1912 Cooler)	448	IIIB (Brick w/ Wood Frame)	S2 (Low Hazard)	in B1 area			
E1 (1946 Storage)	1,169	IIIB (Brick w/ Steel Frame)	S2 (Low Hazard)	in B1 area			
F1 (1946 Garage)	3,262	IIIB (Brick w/ Steel Frame)	S2 (Low Hazard)	in B1 area			
G1 (1972 Metal Bldg)	4,350	IIB (Steel Walls & Frame)	A3 (Museum)	in B1 area			
1st Floor Subtotal	19,915			9500	19,000	601	29,101
A2 (1912 entire 2nd)	8,987	IIIB (Brick w/ Wood Frame)	S2 (Low Hazard)	26000	52000	1646	79646
TOTAL BUILDING	28,902						

Notes:

Due to the mixed occupancy, the A3 use has been used to determine the maximum permitted building area for the 1st floor.

The existing building is 2 stories in height.

Per Table 508.3.3 no fire separation is required between A-3 and S-2 occupancies.

Although the frontage increase was calculated, this increase is not necessary and therefore calculations are not included herein.

RELEVANT EXPERIENCE: RESPECTFUL REHABILITATION



RELEVANT EXPERIENCE: RESPECTFUL REHABILITATION



RELEVANT EXPERIENCE: CONSTRUCTION PHASE



RELEVANT EXPERIENCE: ARTIFACT EXHIBITS



RELEVANT EXPERIENCE: ARTIFACT EXHIBITS



RELEVANT EXPERIENCE: STORY EXHIBITS



RELEVANT EXPERIENCE: ABSTRACT / HIGHER ORDER EXHIBITS



RELEVANT EXPERIENCE: MECHANICAL INTERACTIVES



RELEVANT EXPERIENCE: HIGH TECH INTERACTIVES



RELEVANT EXPERIENCE: SIGNAGE AND WAYFINDING



RELEVANT EXPERIENCE: OUTDOOR SCULPTURE



PROJECT ISSUES

ISSUES

GREEN DESIGN

VISITOR EXPERIENCE

HISTORIC REVIEW

LOCAL FOCUS / WORLD-CLASS DESTINATION

STRUCTURAL

INDOOR / OUTDOOR EXHIBITS

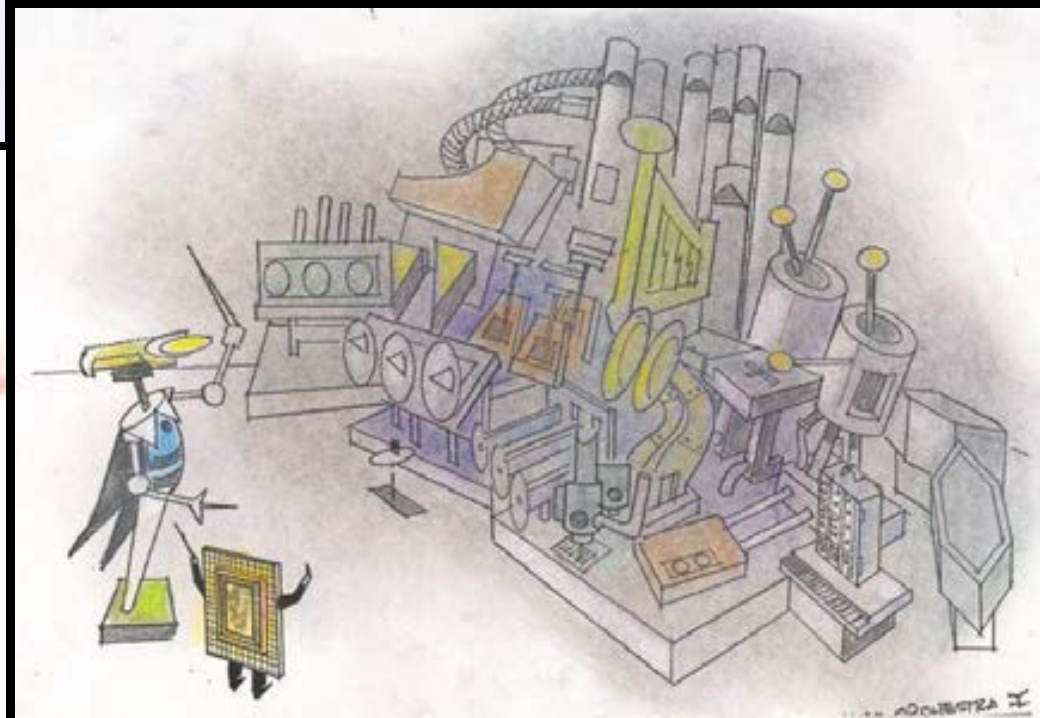
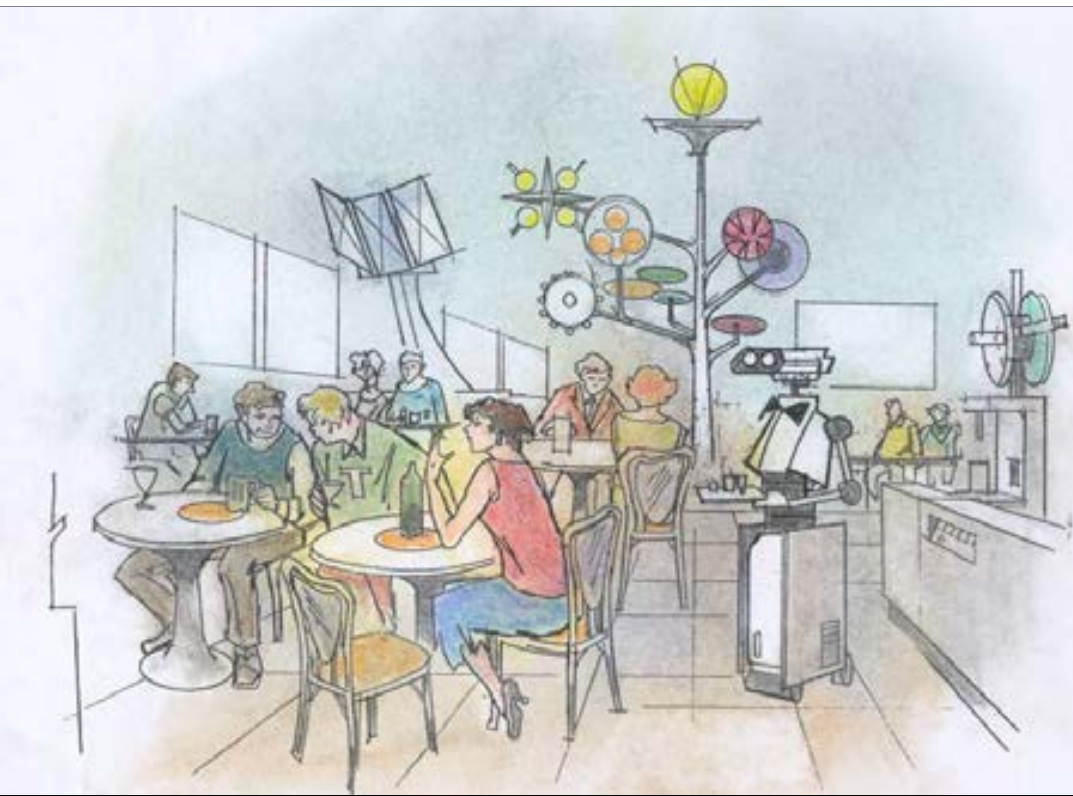
FLOOD / STORM WATER

HISTORIC RENOVATIONS

SMITHSONIAN EXPERIENCE

PROTOTYPING PROCESS

SEAMLESS TECHNOLOGY



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PROJECT DATA: BUCHER/BORGES GROUP

MCCORMICK-GOODHEART MANSION

Client Contact:

Gustavo Torres, Executive Director, CASA de MD
301.431.4185 x1021

gtorres@casamd.org

Services Provided:

Architectural, Structural, Mechanical,
Electrical, Geothermal, Construction
Administration, Historic Tax Credit,
LEED Certification

Dates of Service:

1/1/2007 – 3/31/2011

Location:

Langley Park, MD

Role:

A/E Prime Contractor

Contract Value

(Construction/Assigned):

\$6.4M / 500K

DECATUR HOUSE

Client Contact:

Henry Handler, Vice President, Oak Grove Restoration
301.948.6412

hank@oakgroverestoration.com

Services Provided:

Architectural, Historic Structure Report

Dates of Service:

1/1/2010 - Present

Location:

Washington, DC

Role:

Subcontractor to Contractor

Contract Value

(Construction/Assigned):

\$3.5M / 134K

PURPLE HAZE

Client Contact:

Nancy Levenson
302.644.0379

nrlevens@scj.com

Services Provided:

Architectural, Mechanical, Electrical, Structural,
Historic Approvals

Dates of Service:

1/1/2009 – 11/30/2009

Location:

Lewes, DE

Role:

A/E Prime Contractor

Contract Value

(Construction/Assigned):

\$1.5M / 128K

PROJECT DATA: EISTERHOLD ASSOCIATES

LIVING TRIBUTES TO AMERICA'S WARRIORS

Client Contact:

Vince Ellwood, HDR Architects
972.960.4091
vince.ellwood@hdrinc.com

Services Provided:

Master Planning, Schematic Design

Dates of Service:

10/20/2008 – Present

Location:

Walter Reed Hospital, Bethesda, MD

Role:

Subcontractor to Architect

Contract Value:

\$25M+

NATIONAL HURRICANE MUSEUM & SCIENCE CENTER

Client Contact:

Jill Kidder, Owners Representative
225.408.4030
jill.kidder@nhmsc.org

Services Provided:

Master Planning, Schematic Design

Dates of Service:

10/15/2008 – 11/10/2010

Location:

Lake Charles, LA

Role:

Subcontractor to Architect

Contract Value:

\$60M

INTERNATIONAL CIVIL RIGHTS CENTER & MUSEUM

Client Contact:

McArthur Davis
336.285.9122
mcarthur@ndpii.com

Services Provided:

Master Planning, Exhibit Design

Dates of Service:

4/1/2004 – 2/1/2010

Location:

Greensboro, NC

Role:

Lead / Contractor

Contract Value:

\$23M

PROJECT DATA: DELTA ENGINEERS

CORNING MUSEUM BUILDING STUDIO EXPANSION

Client Contact:

John Aranda, Site Engineer
607.974.8518
arandajc@corning.com

Services Provided:

Architectural, Mechanical, Electrical, Civil, and Structural Design, as well as Construction Administration

Dates of Service:

10/1/2000 – 10/30/2001

Location:

Corning, NY

Role:

Subcontractor to Architect

Contract Value

(Construction/Assigned):
\$5.69M / 90K

CORNING MUSEUM HOT GLASS SUMMER STAGE AND HOT GLASS ROAD SHOW DESIGN

Client Contact:

John Aranda, Site Engineer
607.974.8518
arandajc@corning.com

Services Provided:

Architectural, Mechanical, Electrical, Civil, and Structural Design

Dates of Service:

4/15/2000 – 7/15/2001

Location:

Corning, NY

Role:

Subcontractor to Architect

Contract Value:

(Construction/Assigned):
\$2.1M / 100K

CORNING MUSEUM HOT GLASS UPPER LEVEL GALLERY AIR HANDLING UNIT REPLACEMENT & COMMISSIONING

Client Contact:

Frederick Bierline, Operations Manager
607.974.8518
bierlinefj@cmog.org

Services Provided:

Mechanical, Electrical, and Commissioning

Dates of Service:

11/10/2008 – 12/31/2009

Location:

Corning, NY

Role:

Subcontractor to Architect

Contract Value:

\$308K / 47K

ISSUES: GREEN DESIGN



ISSUES: GREEN DESIGN



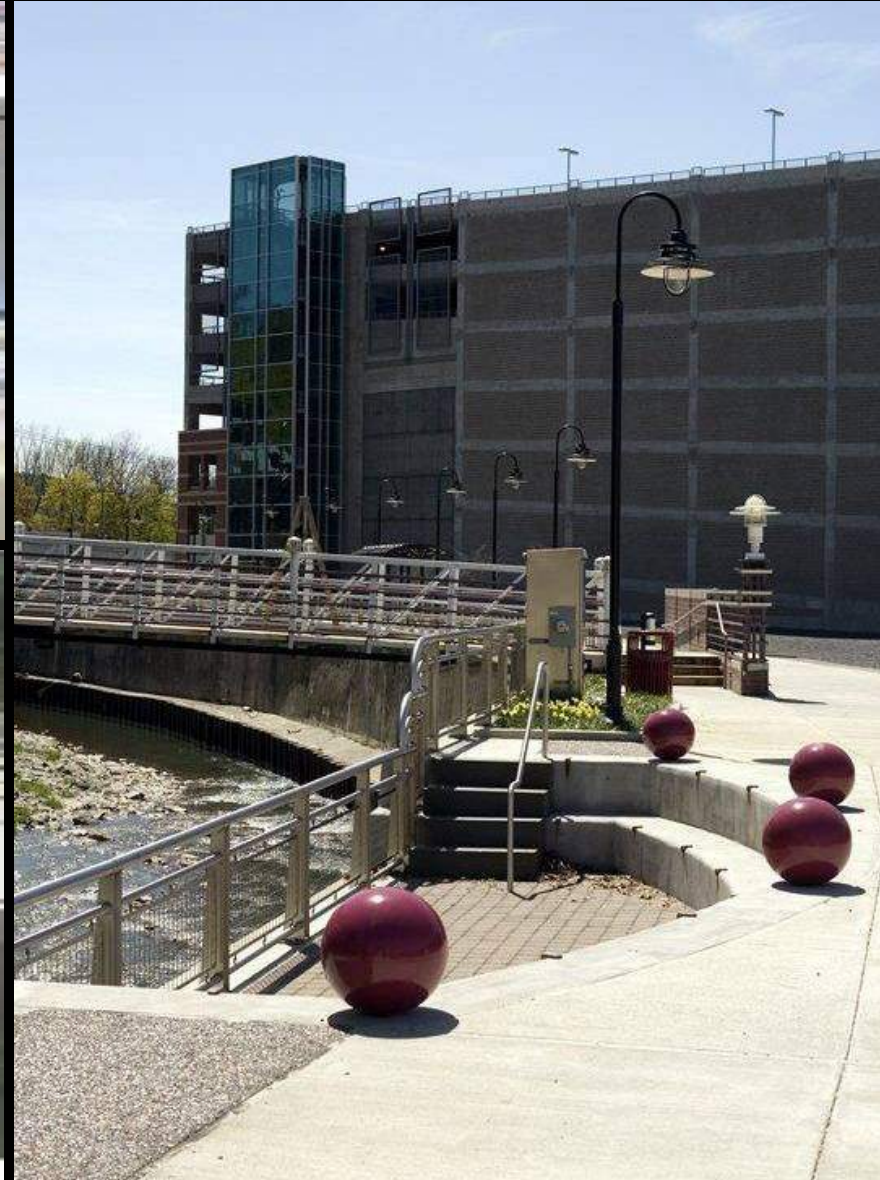
ISSUES: HISTORIC REVIEW



ISSUES: STRUCTURAL



ISSUES: FLOOD & STORM WATER MANAGEMENT



ISSUES: VISITOR EXPERIENCE



African American Museum in Philadelphia

ISSUES: LOCAL FOCUS / WORLD-CLASS DESTINATION



Rosa Parks Library & Museum

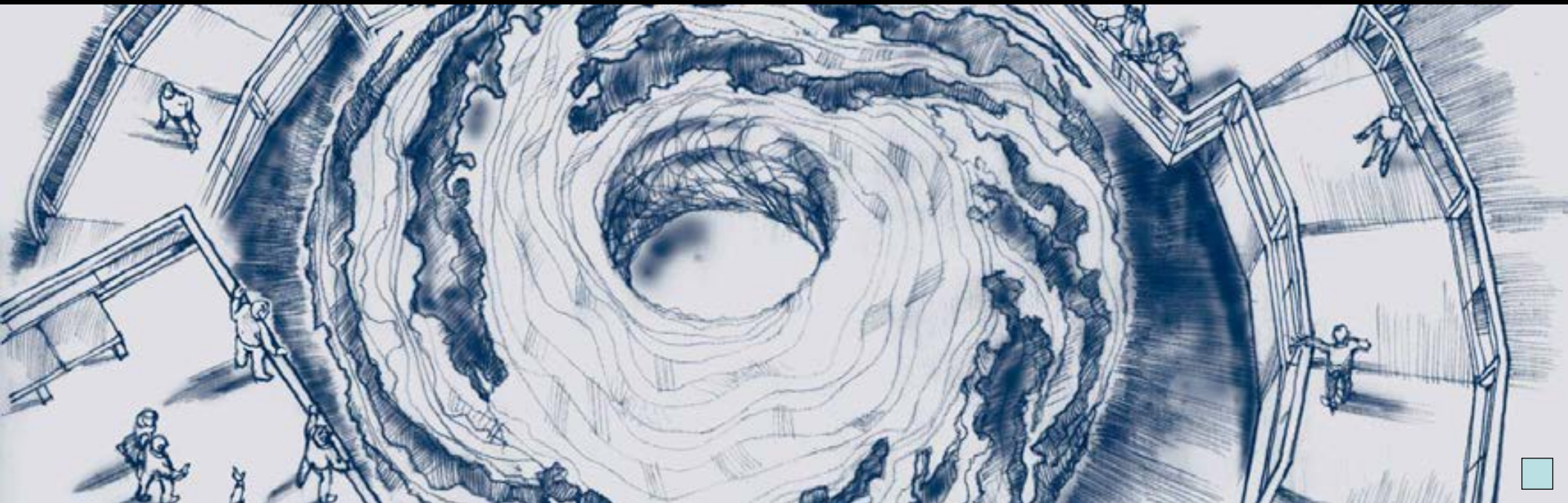


ISSUES: LOCAL FOCUS / WORLD-CLASS DESTINATION



International Civil Rights Center and Museum

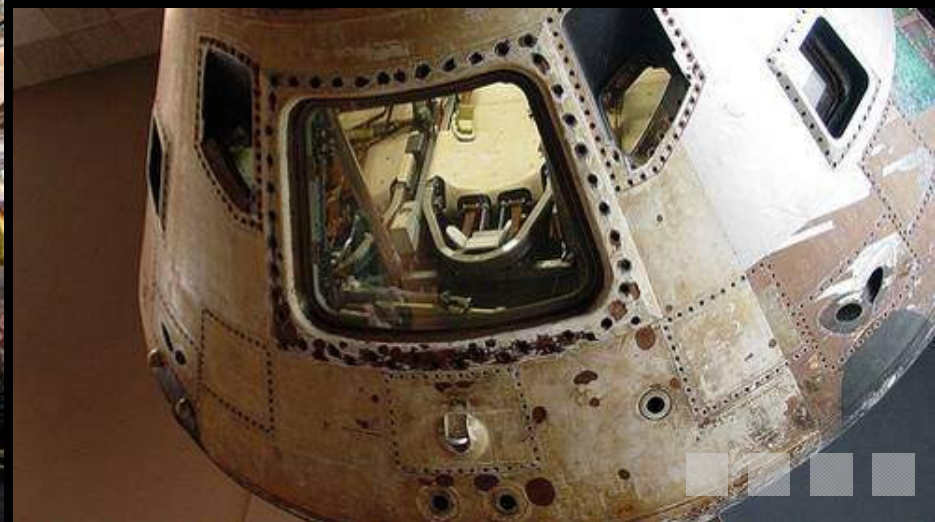
ISSUES: LOCAL FOCUS / WORLD-CLASS DESTINATION



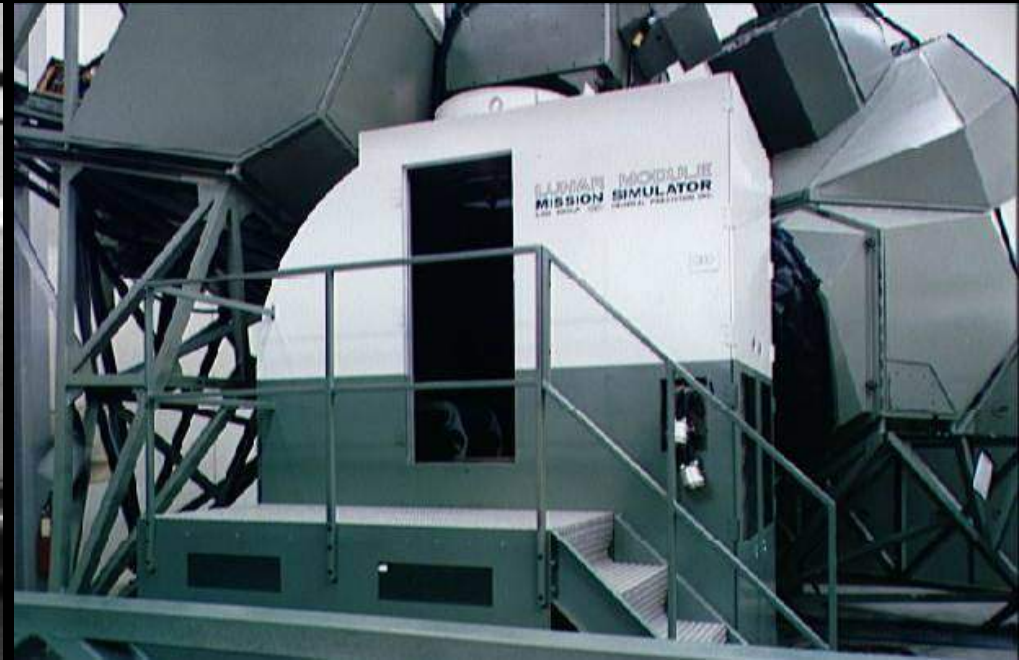
ISSUES: INDOOR/OUTDOOR EXHIBITS



ISSUES: SMITHSONIAN EXPERIENCE



ISSUES: SMITHSONIAN EXPERIENCE



ISSUES: SMITHSONIAN EXPERIENCE



Food for Thought



ISSUES: PROTOTYPING PROCESS



Jurassic Park Discovery Center

ISSUES: SEAMLESS TECHNOLOGY



International Civil Rights Center and Museum

