

## Related Project Experience Large Format and Specialty Theatres

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### CURRENT/RECENT PROJECTS

**The Challenger Center IMAX**  
Hicks Nation Miller

**Tallahassee, FL**

Acoustical Consulting for The Challenger Center IMAX in Tallahassee, FL. Provided acoustical design for the IMAX Theatre at this site.

**Butterfly Kingdom IMAX**  
Fraley-Stricker Architects

**Hilton Head Island, SC**

Acoustical recommendations for a new IMAX theatre at the Butterfly Kingdom, an educational institution with museum and theatre, created to conserve butterflies, insects, and other invertebrates and their ecosystems.

**Fernbank Planetarium**

**Atlanta, GA**

Fernbank Science Center

TA provided acoustical and audiovisual consulting for the refurbishment of this theatre is circular with a 70-foot diameter dome forming the ceiling which also serves as a projection screen. Seating capacity is 500. These facts make the Fernbank Science Center planetarium one of the largest planetariums in the United States.

**UNC Chapel Hill Visitors' Center - Morehead Planetarium**

**Chapel Hill, NC**

Provided audiovisual programming and control system re-design and new technology specifications for the video theatre in the existing space of the Morehead Planetarium Building.

**Southpoint IMAX Theatre**

**Southpoint, NC**

TK Architects, Inc.

Acoustical design review and recommendations for this new IMAX theatre located within a 17-screen multiplex in a shopping mall

**USS Lexington MegaScreen Theatre**

**Corpus Christi, TX**

Ferrell/Brown & Associates

Acoustical recommendations for the USS Lexington, a famous WWII aircraft carrier, now a naval aviation museum located at Corpus Christi Beach. This MegaScreen theatre will be the first of its kind to be constructed on board an historic naval vessel. The 200-seat theatre will be equipped with a Mega 8/70, a 35mm and a high resolution projection system. All three presentations will be shown on a 30' x 40' giant screen and viewed from stadium style seating.

**Liberty ShowMax Theatre**

**New York, NY**

Cunningham Group

Acoustical recommendations for the this new \$3 million 150-seat space theater which will utilize the Mega 8/70 projection system and high resolution video presentations to present planetarium programs and giant screen motion pictures on a 60' MegaDome.

**Montreal Showmax Theatre**

**Montreal, Quebec**

Fraley-Stricker Architects

Acoustical design for an iWERKS, 450-seat Showmax 15/70 theatre built in the existing facility of the Montreal Forum. Originally a hockey stadium, this structure was converted to a multiplex theatre entertainment complex.

**COSI on the Riverfront – Theatre**

**Columbus, OH**

iWERKS Entertainment

Audio consulting and loudspeaker layout pattern for a new 376-seat 8/70 3-D theatre.

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### San Diego Natural History Museum Theatre

San Diego, CA

iWERKS Entertainment

Acoustical recommendations, audio consulting and loudspeaker layout pattern for a new 8/70 theatre.

### Oklahoma City Theatre - Kirkpatrick Science and Air Space Museum - Omidome Theatre

Oklahoma City, OK

iWERKS Entertainment

Evaluation of the 36,000-watt sound system and loudspeaker layout pattern for a 264-seat 15/70 dome theatre. This 17,000 square foot theatre is the first and only large format theatre in Oklahoma.

### Science Center at Union Station – Theatre

Kansas City, MO

iWERKS Entertainment

Sound system evaluation and recommendations for a planned 452-seat 15/70 3-D theatre.

### New Mexico Museum of Natural History & Science - 8/70 Theatre

Albuquerque, NM

DCSW

Environmental noise level studies, sound isolation, room acoustics, mechanical noise and vibration control, and sound system design for a new 276-seat large format theatre.

### Arizona Mills IMAX Theatre

Tucson, AZ

E. Kent Halvorson, Inc.

Studied environmental noise levels, developed HVAC noise control and sound isolation details, and consulted on the IMAX theatre's acoustic design.

### Ultimate Digital Theatre

Los Angeles, CA

International Communications Industries Association

This 300 seat theatre was created exclusively for the INFOCOMM '97 show at the Los Angeles Convention Center. Used for showcasing the integration of all-digital projection with a 24,000 watt surround sound system, the theatre is capable of delivering over 120 dB to every seat in the house. Our work included acoustical modifications within the theatre to control low frequency reverberation and improve general room acoustics.

### Ontario Mills Large Format Theatre

Ontario, CA

iWERKS Entertainment  
County of San Bernardino

Developed loudspeaker mounting and aiming directions for a 60'x80' flat screen 2-D/3-D 15/70 theatre in the Ontario Mills Mall. The 28,700 watt digital surround sound system uses 32 speakers divided into 7 clusters. Additional services for this 441 seat theatre included studying environmental noise levels, HVAC noise control, sound isolation details, theatre acoustical design, and construction administration.

### Minnesota Zoo - Imation IMAX 3-D Theatre

Minneapolis, MN

Larger Than Life Entertainment

This 600 seat theatre features a 12,000 watt sound system and a 6-story tall screen--the largest in Minnesota. Our services included studying environmental noise levels, HVAC noise control and sound isolation details, theatre acoustic design, and construction administration.

### Hearst Castle - 8/70 Theatre

San Simeon, CA

E. Kent Halvorson

Reviewed HVAC system serving the theatre and recommended ways to isolate the noise. Provided recommendations for room acoustics in the newly created destination cinema.

### Children's Museum of Indianapolis - iWERKS CineDome

Indianapolis, IN

iWERKS Entertainment

Design of a 7 channel cinema audio system including the loudspeaker layout. Also designed a background music/paging system for the theatre queue area. Provided an acoustics review and IMAX performance testing of the theatre which seats 310 people. The CineDome is the United



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States' first iWERKS domed 15/70 theatre.

**Finnish Science Center - 8/70 Theatre**

**Vantaa, Finland**

Huereka (the Finnish Science Center)

IMAX performance testing of an iWERKS Omnivision 8/70 domed theatre/planetarium. To bring the theatre up to performance standards, recommendations were made for improving the sound isolation of the projection booth.

**Orlando Science Center - CineDome**

**Orlando, FL**

iWERKS Entertainment

For this 15/70 dome theatre which seats 310 people, we designed the 28,000 watt digital audio system and the loudspeaker layout pattern for the 30 speakers which are grouped into 7 clusters. The Dr. Phillips CineDome is also used as a planetarium (with live video feed from the on-site observatory telescope) and for laser light shows.

**Arizona Science Center Theatre**

**Phoenix, AZ**

iWERKS Entertainment

Audio system design including loudspeaker layout for the 285 seat Irene P. Flinn Giant Screen Theatre. Provided acoustical, optical and audio testing of this 8/70 theatre in relation to IMAX performance criteria.

**New Mexico Museum of Natural History & Science - Dynamax Theatre**

**Albuquerque, NM**

MacGillivray Freeman Films  
Distribution Co.

IMAX performance testing of the 96-seat Dynamax theatre's sound system, plus room acoustics for the theatre area. Gave recommendations to optimize the sound and visual systems.

**Dunbar Theatre**

**Deadwood, SD**

iWERKS Entertainment

Audio system design of an 8/70 theatre including loudspeaker layout. This theatre is in a resort area created by Kevin Costner as a "Sundance Festival" alternative.

**Washington Pavilion of Arts & Sciences - 8/70 Dome Theatre**

**Sioux Falls, SD**

Koch Hazard Baltzer, Ltd.

Provided acoustical consulting services for the four-story 8/70 Dome theatre including sound isolation details to block outside traffic noise.

**San Francisco Theatre at Pier 39 (acoustics)**

**San Francisco, CA**

World Cinemax Productions, Inc.

Sound isolation, mechanical noise and vibration control, and room acoustics design were provided during the renovation of this 300 seat iWERKS 5/70 theatre at Pier 39.

**San Francisco Theatre at Pier 39 (sound system design)**

**San Francisco, CA**

iWERKS Entertainment

Design of a surround cinema audio system including review and recommendations for surround loudspeaker location and types. Also designed an entirely separate sound system to simulate two people in the back of the theatre commenting on the movie.

**Coca-Cola Freedom Pavilion**

**Atlanta, GA**

iWERKS Entertainment

Loudspeaker layout and design for separate zones within a pavilion. Work included the selection and location of loudspeakers for the queue area, the pre-show area (5-channel surround "Cinema System"), the load area (multi-channel system with effects and video support) and the exit area.

**Turbo Rides**

**Various Locations**

iWERKS Entertainment

Design of the sound system for an 18 person capacity Turbo Tour theatre. Plans include

cloning the audio design to be used for several theatres which are the same size and capacity.

**Rochester's - Planetarium Theater**

**Rochester, NY**

MacGillivray Freeman Films  
Distribution Co.

IMAX performance criteria testing for a 225 seat domed planetarium/theatre. Provided measurements, observations and recommendations for projection systems, the sound system, and room acoustics.

**Chiryu Theatre**

**Chiryu, Japan**

iWERKS Entertainment

Audio system design including loudspeaker layout, plus recommendations for improving acoustics within the Cinetropolis' 8/70 theatre.

**Chiryu Theatre - Certification**

**Chiryu, Japan**

MacGillivray Freeman Films  
Distribution Co.

IMAX performance testing of the theatre sound system and room acoustics, with additional testing of the sound isolation between the theatre and lobby area.

**Zion National Park**

**Springdale, UT**

iWERKS Entertainment

Recommendations for sound isolation, mechanical noise and vibration control, and room acoustics for Zion's Cinemax 15/70 theatre which seats 475 people.

**Singapore Discovery Center 3D Theatre**

**Singapore**

iWERKS Entertainment

Audio system design including loudspeaker layout recommendations for an 8/70 3-D theatre.

**Chicago Navy Pier Theatre**

**Chicago, IL**

iWERKS Entertainment

Audio system design including loudspeaker layout pattern and recommendations for a proposed 15/70 theatre.

**Reno National Bowling Stadium Theatre**

**Reno, NV**

iWERKS Entertainment

Audio system and loudspeaker layout design and recommendations for an 8/70 theatre.

**Central Playland Turbo Ride**

**Bangkok, Thailand**

iWERKS Entertainment

Audio system design/loudspeaker layout for an iWERKS Turbo Ride theatre.

**Pan Yu Turbo Ride**

**Pan Yu, China**

iWERKS Entertainment

Surround loudspeaker layout design based on eight surround speakers. Provided calculations indicating the sound levels achievable by the loudspeaker system in this Turbo Ride theatre.

**Paramount's Carowinds Turbo Ride Theatre**

**Charlotte, NC**

iWERKS Entertainment

Sound system design for a 5/70 Turbo Ride theatre.

**National Museum of Natural Sciences 3D Theatre**

**Taichung, Taiwan**

iWERKS Entertainment

Redesign of a 3-D theatre's side surround loudspeaker system so that loudspeakers can be wall-mounted at a considerable distance from the audience instead of being suspended over them. Also designed a speech reinforcement system to allow the 452 seat theatre to be used for panel discussions.

**Ministry of Science & Technology/Expo '93 Theatre**

**Taejon, Korea**

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iWERKS Entertainment	Audio system design for a rectangular-shaped theater which accommodates approximately 300 people. An acoustical review of the theatre and loudspeaker layout design was also included.	
<b>Pointe Orlando Multiplex</b>		<b>Orlando, FL</b>
Muvico Theatres	Acoustical design and sound isolation details for a multiplex with 20 theatres.	
<b>Visalia 10-Plex Cinema</b>		<b>Visalia, CA</b>
Uesugi & Associates	Review of theatre partitions to ensure they meet necessary sound isolation criteria.	
<b>Holiday Theater</b>		<b>Stockton, CA</b>
Uesugi & Associates	Performed sound isolation tests of partitions between theaters. Provided wall assembly recommendations to create partitions which would handle low frequency noise transmission.	
<b>Pearl Highlands 11-Plex</b>		<b>Pearl City, HI</b>
Uesugi & Associates	Sound isolation and acoustical recommendations to help theatres meet the THX reverberation time criteria.	

### PAST PROJECTS

**Disney Theatre** - Walt Disney Pictures  
**Disney Corporate Headquarters Screening Rooms** - Disney Development Company  
**Disney Stage 'A'/Dubbing Theatre** - Walt Disney Pictures  
**Dolby Screening Room** - Dolby Laboratories Inc.  
**Syufy Cinedome Theatre/THX Certification Testing** - Lucasfilm Ltd.  
**Los Angeles IMAX/THX Certification Testing** - Lucasfilm Ltd.  
**Station Casinos THX Theatres** - Tiverdi Construction & Marnell-Corrao Architects  
**Colma United Artists 6/THX Certification Testing** - George K. Raad & Associates  
**United Artists at Arden Fair Mall** - Homart Development Company  
**Champion Film Theaters** - Champion Film Corporation  
**Crest Theater** - Buena Vista Pictures Distribution  
**Squaw Valley Cinema** - Squaw Valley Inc.  
**CBS/MTM Stage 5 Screening Room** - Todd-AO Glenn  
**CBS/MTM Video Sweetening Room** - Todd-AO Glenn

Past projects are the individual experience of TA principals.  
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