



*designers of electronic media*

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## **Company Background and Profile**

Since 1985, Bowen Technovation has been home to a group of uniquely talented staff with a special interest and proven track record in designing and producing affordable, leading-edge audio, video, and interactive systems for planetariums, science centers, and museums.

Bowen installations include hundreds of satisfied worldwide sites, and has proven to be a financially solid and responsible service provider and business partner.

Award-winning system and/or content designs by certified and degreed engineers and producers, and implementation by experienced technicians are a regular part of the Bowen operations, and installations are followed up by a unique level of client training and support.

These ingredients mix with Bowen's excellent relationship with major international manufacturers to provide exactly the solution demanded by the client mission and objectives.

Bowen Technovation is a member of and/or annual financial supporter of:

The Middle Atlantic Planetarium Society

The International Planetarium Society

Western Alliance of Planetariums

British Association of Planetariums

American Association of Museums

Midwest Museum Association

Southeastern Planetarium Association

Great Lakes Planetarium Association

Bowen has earned very high marks from clients and partnering architectural/design firms regarding serving as system designers, specification writers and project managers/prime contractors. Reading of a few of the staff resumes will show why, as the Bowen staff reflect years of planetarium experience.

# Staff Profiles, Bios and Experience

Here are some of the team members who would be assigned to your project and the roles they would serve:

## **Jeff Bowen, Creative Director and President**

Jeff was an honors biochemistry major at the University of Illinois, and since 1985 has pioneered new concepts in synchronized audio and video for sound recording, digital video, planetarium, museum, and educational applications. He speaks often to student groups, and conducts sound design workshops at numerous planetarium, video production, and museum conferences. August 1994 marked the release of Jeff's 400 page CD-ROM interactive book "Becoming a Computer Musician". This book is published by Macmillan Computer Publishing in English and Spanish. Jeff also was 1994-95 President of the International Television Association, Indianapolis Chapter. Jeff served as producer of the first three panoramic video multimedia shows to be designed for the Spitz Electric Sky Immersive Visualization Theatre at the new Northern Lights Centre at Watson Lake in the Canadian Yukon.

Bowen Technovation awards include:

2002 ProA/V Magazine Top Ten Award for Sound System Design in US	1994 Silver Screen (International Video and Film Festival)
1999 Emmy Award	1993 CINDY Gold Award
1998 Fellow, International Planetarium Society	1992 CINE Golden Eagle
1997 National 1st Place Vision Production Award	ITVA Meritorious Service Award
1996 Fellow, Great Lakes Planetarium Association	

## **Mark Trotter, Senior Planetarium Project Manager**

Mark has an extensive background in museum and planetarium work that spans twenty-five years. At Louisiana Tech University in Ruston Louisiana he was a Mechanical Engineering major and began his planetarium career as a student worker and later as director of the university's planetarium. From there he returned to his hometown of Shreveport, LA to direct the city's planetarium for ten years. As the planetarium curator for the Audubon Louisiana Nature Center in New Orleans he was responsible for the programming and financial success of the planetarium as well as maintaining exhibits throughout the center. He also has worked as Operations Director for a major audio visual company where he was directly responsible for the daily operation and supervision of all technical staff, hotel audio/visual managers and scheduling for road shows. Mark is a Certified Barco Video Installation Technician and is certified for AMX control system design and installation.

### **Mike Grznar, Planetarium Audio, Video and Control System Design, Programming and Client Training**

Mike fits right in at BT as he is an accomplished keyboard artist with degrees in Astronomy and Physics from Ohio Wesleyan University. He came to us after a great stint at Center of Science and Industry in Columbus (COSI), Ohio where he kept busy with public speaking and performance, Spitz and Digistar planetarium/theater operation, SPICE automation programming, Digistar programming, script composition and production, electronic repair and large telescope operation.

At BT he is one of our Certified Video specialists, is Medialon and AMX control system Certified, Watchout Certified and programs show control systems for clients while providing a high level of technical and creative support for show production and systems.

### **Diana Bowen, Chief Financial Officer/Contract Authoring**

In 2001, Diana Bowen completed a successful 23-year career as Vice President and Investment Division Manager with a national banking corporation, and now manages the daily and strategic finances and contracts for our company. She is well known by our vendors and clients as she handled duties for us on a part-time basis since 1985 and has attended various conferences and trade shows with Jeff. The 1978 graduate of the School of Business and Economics at Anderson University also studied at American University in Washington, DC and worked as a researcher in the Congressional Budget Office. Passionate about the living conditions of animals and the environment, she typically is accompanied to work by one of the Bowen family dogs.

### **Daniel Ritchie, Senior System Engineer, Lighting Designer**

Iowa native Dan Ritchie joined the staff in 2001. He attended Waldorf College working towards a degree in General Engineering, but developed a keen interest in video production and technical theater. He then transferred to Middle Tennessee State University to earn a BS in Sound Engineering. Also an avid photographer with a high level of experience in Photoshop, he also has a special interest in and skill set for creation and troubleshooting of electronics software and hardware.

Dan worked extensively with development of our new incandescent and LED lighting systems for planetariums, and commonly is an on-site project manager and trainer for exhibit, museum, and planetarium clients. He managed a great deal of the Bowen on-site installation work for the new Indiana State Museum in Indianapolis, as well as at the prestigious Adler Planetarium in Chicago. Dan is a Barco Certified Technician.

This front-line team is complemented by several other full-time, part-time and contracted Bowen staff members.

## **Company Experience In Planetarium**

### **Design and Installation or Project Management**

#### **Griffith Planetarium: The Griffith Observatory and Planetarium, Los Angeles**

Current Project. Master control systems design, installation and programming for new Griffith Observatory systems. Includes control of Evans and Sutherland digital IG and projection systems, Zeiss Mark X star projector, mechanical lifts and lighting portholes and doors, control of digital audio and several hundred channels of DMX lighting.

Neal Mayer - [nmayer@es.com](mailto:nmayer@es.com)  
Evans and Sutherland  
600 Komas Drive  
Salt Lake City, UT 84108  
801-588-7419



#### **Tessmann Planetarium: Rancho Santiago Community College, Santa Ana, CA (Los Angeles).**

2003-2006. Designer and prime contractor for complete turnkey planetarium and exhibits lighting, audio, video, control systems. Subcontract Goto Optical, Tokyo for custom-built projection equipment totaling \$450,000. Media Production Suite design, installation and training. Installation complete. Phase II interactive exhibit design ongoing.

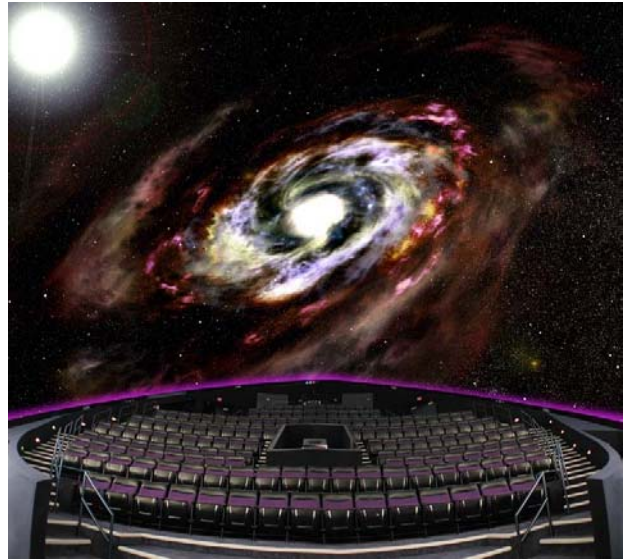
Contracted by client: Don Prescott, Special Projects Director, 17<sup>th</sup> and Bristol, Santa Ana College 92706 (714)-997-8828  
[prescottc@sbcglobal.net](mailto:prescottc@sbcglobal.net)



**Milwaukee Public Museum Planetarium:  
Milwaukee Public Museum**

Current. Design and specifications creation for conversion of 65-foot domed IMAX into an all dome video planetarium. Responsible for design of physical plant requirements for lighting, audio, video, control systems. Media Production Suite design, installation and training.

Contracted by client: Jeffery Bass  
Executive Director of IMAX and Planetarium  
Public Museum  
800 W. Wells Street  
Milwaukee, WI 53233-1478  
phone: 414.278.6985  
email: [bass@mpm.edu](mailto:bass@mpm.edu)



**Saunders Planetarium: Museum of Science  
and Industry, Tampa, FL**

Year 1996- to current. Complete turnkey design and prime contractor for live performance exhibit gallery and planetarium theater installation. Also system design and installation for IMAX theater and nearby Science Theater. New show productions installed.

Contracted by client: Alan Peche, Director of  
Theaters, 480 East Fowler Avenue  
Tampa, FL 33617 (813)-987-6337.  
[APeche@Mosi.org](mailto:APeche@Mosi.org)



**SpaceQuest Planetarium: Children's Museum of Indianapolis, Indianapolis, IN**

1985 thru 2006. Designed and installed several planetarium system upgrades and interactives with remote video camera control for Dinosphere, 48 channel digital audio server/processor front end for Dinosphere, design of lighting, audio, video and control systems for various exhibit galleries including Indiana Railroad, Passport to the World, Science Works, Spacequest, others.

**Shanghai Planetarium: The Shanghai Museum of Science and Technology, Shanghai, China**

Jan 2005. New 5.1 and 16 x 16 matrixed digital sound systems and master control system for Digistar 3 domed theater.

Kirk Johnson – [kjohnson@es.com](mailto:kjohnson@es.com)  
Evans and Sutherland  
600 Komas Drive  
Salt Lake City, UT 84108  
801-588-7511



**EHGMS Planetarium: Hartford-Glastonbury Magnet Schools, Hartford, CT.**

Current. 40 foot New Construction. Complete turnkey planetarium theater and systems design and project management. Power, acoustics, HVAC specs and drawings. New star projector, audio-visual and projection systems and dome. Show content and training.

Lead Architect: Jim LaPosta; Jeter, Cook, Jepson; Hartford, CT (860) 247-9226  
[jlaposta@jcj.com](mailto:jlaposta@jcj.com)



**Longway Planetarium: Flint Cultural Center, Flint, MI**

2001-2002. Large-scale surround sound digital audio and video system design, installation and training. New show productions installed.

Contracted by client: Mike Gardner,  
Planetarium Director, 1310 East Kearsley  
Street, Flint, MI 48503  
(810) 237-3401  
Richard Walker  
[rwalker@longway.org](mailto:rwalker@longway.org)



**Northern Lights Centre, Yukon, Canada**

1996. Designer and system integrator for complete turnkey planetarium and exhibits audio. Also, produced the first three panoramic video programs for 60 x 30 spherical screen theater with 5.1 sound system.

Contracted by client: David Leverton, Now at  
“**Science Alive! The New Zealand Science Centre**”, P.O. 40020, Christchurch / 392  
Moorhouse Avenue, Christchurch, 8001, New Zealand, Phone: +64 3 377 8550, Fax: +64 3 365 5189, Mobile: +64 2 229 2262.  
[david.l@sciencealive.co.nz](mailto:david.l@sciencealive.co.nz)



**Ruth Lilly Health Education Center, Indianapolis**

2005 and many ongoing projects. Design and install interactive stereoscopic 3D and 2D High Definition visualization projection systems in health education theaters. Design and install audio systems for theaters and lobby. Design videoconference/distance learning system with HD capability for their link into Internet II content streaming.

Contracted by client:  
Julian T. Peebles - [julianp@rlhec.org](mailto:julianp@rlhec.org) Ruth Lilly  
Health Education Center  
2055 N. Senate Avenue. Indianapolis, IN 46202-1210  
Phone: (317) 924-0904

