

Biographical Sketch for:  
**DAVID BEINING**

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### **Professional Preparation**

Bachelor of Arts, Mass Communication & Sociology; Minor, Mathematics, University of Wisconsin, 1988  
Master of Arts Degree Program, Communication & Journalism, University of New Mexico, 1997

### **Appointments**

2000-present: Director, LodeStar Astronomy Center, University of New Mexico  
2005: Fulldome Theater Director, SIGGRAPH 2005 Annual Conference  
2003-present Executive Producer, "DomeFest" International Fulldome Festival  
1997-2000: Program Director, The LodeStar Project, University of New Mexico  
1993-1997: Deputy Director, Explora Science Center, Albuquerque, New Mexico

### **Publications**

R. Wyatt, A. Barnett, J. Kirsch, D. Beining: *The Future of Fulldome*. Presentation at the Association of Science-Technology Centers Annual Conference. , October 2005  
D. Beining, *Lessons for Collaborative Productions: Standards Among Revolutionaries*. Presentation to the International Planetarium Society. July 2004.  
D. Beining, *Innovation and Opportunity for Fulldome Theaters*. Conference presentation at the European Collaborative for Science, Industry & Technology Exhibitions, Munich, November 2003  
D. Beining *Experiments and Collaborations in Immersive Digital Theater Production*. SIGGRAPH Course, July 2003.  
D. Beining, L. Ladwig, H. Walker, *Student Education & Production in Fulldome Planetaria* Presentation to the International Planetarium Society. August 2002.  
D. Beining, S. Savage, C. Emmert, *The Revolution in the Dome: Current and Coming Tools for Depicting Astronomical Phenomena*, Presentation at the American Astronomical Society 200<sup>th</sup> Annual Meeting, 2002  
D. Beining, *Large-Format Visualizations at LodeStar: Tools, Techniques, Collaborations and Plans*. Presentation at the Visualization Workshop, UNM High Performance Computing Center. July 2002.

### **Other Publications/Programs/Exhibits**

SIGGRAPH 2005 Computer Animation Festival's Fulldome Theater (Fulldome Director), SIGGRAPH 2005 DomeFest (Producer and Director of international fulldome festival) LodeStar/UNM 2003, 2004, 2005  
"Gronk's BrainFlame" (Co-Producer of 15-minute fulldome art piece), Digital Pueblo Project/LodeStar 2005  
"Mars Stories" (Director, three 5-minute fulldome shorts on Mars and Rover missions) 2003  
"Fly-Through Orrery" (Director, simulated real-time fulldome production) LodeStar/UNM, 2002.  
"The Observatories & Astronomy of New Mexico" (Director, 15-minute fulldome production) LodeStar, 2001  
"Wonders of the Universe," (Director, playback soundtrack and 15-minute real-time prologue) LodeStar, 2000.  
"Cosmic Journey" (Program Director/Project Manager, interactive exhibit galleries), LodeStar, 2000.  
"Interactions: The Art of Science," (Program Director, hands-on exhibit) Explora Science Center, 1996  
"Computer Bits & Pieces," (Program Leader, consortium-produced exhibit) Explora Science Center, 1995

### **Synergistic Activities**

*International Planetarium Production Alliance*. Founding member of a five-planetarium consortium designed to collaborate on the production of three fulldome astronomy shows over five years. Partners include Smithsonian's National Air & Space Museum, Franklin Institute, Museum Victoria, Harvard University and others.

## **David Beining P. 2/2**

*Maya Skies*. Co-PI on a proposed fulldome production on archeoastronomy with Chabot Space & Science Center, Institute for Learning Innovation and seven other planetariums.

*Arrow to the Sun*. Executive producer on the collaborative production of the classic children's book for fulldome and astronomy education. Collaborators include book author Gerald McDermott and UNM's ARTS Lab.

*DomeFest*. Founded and direct an international juried festival for fulldome producers and artists, including independent artists university students, animation studios, fulldome theaters and production houses, and others. The juried show travels to fulldome theaters and professional conferences.

*SIGGRAPH 2005*. Computer Animation Festival committee member and Fulldome Theater Director. Programmed and project managed fulldome theater special venue at 2005 conference.

*University of New Mexico*. The Art, Research, Technology & Science Laboratory is a \$3M media innovation center which includes a small research and production fulldome theater/studio. *ARTS Lab* Steering committee member and dome project manager. *Digital Pueblo Project*. A community-oriented program for at-risk teens on digital art education funded by the National Science Foundation's Partnership for Innovation program and administered by UNM's Art Technology Center. LodeStar collaborates in directing fulldome productions. *Fulldome Theater-based University Courses*. Produce and present a fulldome-based Astronomy 101 evening in collaboration with UNM Physics & Astronomy faculty and fulldome-oriented training, production and presentation for Computer Science, Media Arts and ARTS Lab courses.

### **Selected Awards, Grants and Achievements**

2005 McCune Charitable Foundation grant, PI, "Arrow to the Sun" production grant

2005 NASA IDEAS Grant, project director, "Bridging the Gap Native American Teacher Workshop"

2004 State of New Mexico's Media Industries Strategic Project, project partner, "ARTS Lab and Fulldome Research Center"

2004 National Science Foundation PFI grant, senior project staff, "Digital Pueblo Project: Mentorship-based Digital Media Training and Production"

2003 Boeing Foundation, PI, "Mars Stories, Real-Time Interactive Fulldome Experiences related to the Mars Exploration Rover Mission," LodeStar, University of New Mexico

2002 Ford Foundation, Co-PI, "Creating Artists' Projects for Immersive Public Theaters," Arts Technology Center/LodeStar.

1997 Air Force Office of Scientific Research Grant, senior project staff, "The LodeStar Project," UNM/Institute for Astrophysics

1996 National Science Foundation ISE grant subaward, senior project staff, "Interactions: The Art of Science," exhibit

1995 Intel Foundation, senior project staff, "Computer Bits & Pieces," a consortium-based grant for exhibit development

1993 National Science Foundation ISE grant subaward, senior project staff, "Science Carnival," science education exhibit

### **Recent Collaborators**

Carter Emmart, Anthony Braun & Ryan Wyatt, senior managers, American Museum of Natural History

Steven T. Savage, president, Sky-Skan, Incorporated

Ben Shedd, Department of Computer Science, Princeton University

Ed Angel, Department of Computer Science & Art Technology Center, University of New Mexico

Samuel Lord Black, software engineer, Pixar

Leo Horwitz, art director, Electronic Arts

Larry Crumpler, Planetary Scientist, New Mexico Museum of Natural History, MER Athena Team Scientist

Gerald McDermott, Caldecott-Winning Author & Illustrator of "Arrow to the Sun"

Alexandra Barnett, CEO, Chabot Space & Science Center

John Weiley, IMAX film director

Donna Cox & Robert Patterson, Science Visualization, National Center for Supercomputing Applications

Derrick Pitts, Chief Astronomer, Franklin Institute, International Planetarium Production Alliance president

Kevin Cain, director, INSIGHT

