24 minute Digital Fulldome Planetarium Show, premiered Feb. 2012, narrated by Liam Neeson. A production by Spitz Creative Media, NCSA / University of Illinois, NASA Scientific Visualization Studio and Thomas Lucas Productions., AVL produced 8 minutes of fulldome visualization, including a Hurricane Katrina simulation by Wei Wang and team at NCAR and a flight to the surface of Venus using NASA Magellan data.
http://www.dynamicearth.spitzcreativemedia.com/

- Exhibited in 60 planetariums around the world within 12 months of release in 9 languages
- 2012 Jackson Hole Science Media Award Finalist
- Estimated attendance of 600,000 since release

“Space Junk 3D,” Melrae Pictures Giant Screen 3D film
  - Shown in 42 theaters around the world in 9 languages. Blu-Ray available
  - Finalist in the Jackson Hole Wildlife Film Festival - Inaugural Science Media Awards, Best Immersive Cinema 3D.

23 minute Digital Fulldome Planetarium Show, produced by the Adler. Premiered July 8, 2011. AVL produced 8 minutes of fulldome astrophysics and astronomy visualization for the show, including visualization of Stellar Disruption around a black hole by James Guillochon, UCSC, colliding galaxies by Brant Robertson, Arizon and pre-visualization design for a constrained local universe simulation by Joel Primack and Nina McCurdy,
Creative Productions: Science Education and Outreach 2008 - 2013

- Ultra high-resolution 8k x 8k dome masters rendered for Adler’s state-of-the-art dome theater
- 170,887 attendees during from 8/15/11 to 8/16/12 at the Adler Planetarium

“The Tree of Life,” Feature Film by Terrence Malick
138 minute Feature Film, Fox Searchlight Distribution – Released May 27, 2011.
AVL produced 2 minutes of IMAX resolution visualization for the feature film, including a simulation of Population III stars forming and going supernova in the early universe, by Volker Bromm, UT-Austin.
http://avl.ncsa.illinois.edu/art/the-tree-of-life
- Palme D’Or winner at Cannes Film Festival 2011
- Nominated for Best Picture, Cinematography at the 84th Academy Awards, 2012
- Worldwide theater viewers since release = 6.8 million people

25 minute Digital Fulldome Production, Premiered Nov. 8, 2010, narrated by Jodie Foster.
AVL produced a 2 minute fulldome visualization, Milky Way flight to Protoplanetary Disk, which included two simulations, a turbulent molecular cloud by Alexei Kritsuk and Michael Norman, UCSD and a protoplanetary disk by Aaron Boley, University of Florida.
http://www.calacademy.org/academy/exhibits/planetarium/life/
- Distributed by SkySkan in 3 languages, showing in 4 Theaters
- Won Best Fulldome Program at the 2011 Jackson Hole Wildlife Film Festival
- Approximately 600,000 attendees at the California Academy from 8/15/11 to 8/16/12.
“GLIF Network Map 2011,” Global Lambda Integrated Facility Network Map
AVL created a visualization of the Global Lambda Integrated Facility network in collaboration with Maxine Brown, EVL/UIC. Network map images are available online.  [www.glif.is/publications/maps/](http://www.glif.is/publications/maps/)

**Visualizations for James Webb Space Telescope Science Education, NASA Goddard**
AVL produced a series of HD astrophysics visualizations for NASA’s JWST educational objectives for online media public outreach, October 2010. Visualizations include simulations from Renyue Cen and Jeremiah Ostriker, Princeton; Alexei Kritsuk and Michael Norman, UCSD; Brian O’Shea, MSU; Brant Robertson, Univ. of Arizona.  [http://www.jwst.nasa.gov/videos_science.html](http://www.jwst.nasa.gov/videos_science.html)
  * Online YouTube views of visualizations since release in 2010 = 132,994
Creative Productions: Science Education and Outreach 2008 - 2013

“Hubble 3D,” IMAX 3D Film
43 minute IMAX 3D film, released March 19, 2010, narrated by Leonardo DiCaprio. A production of IMAX Corporation and Warner Bros. Entertainment in cooperation with NASA. AVL produced and designed more than 9 minutes of IMAX 3D visualization, about 22% of the film, including a journey to the Orion nebula in partnership with the Space Telescope Science Institute and a flight from the Milky Way to the Virgo Supercluster to the Cosmic Web, which included numerous observed data sets and a simulation of the Large Scale Structure of the Universe from Jerimiah Ostriker and Paul Bode, Princeton.

http://www.imax.com/movies/m/hubble-3d/
http://www.ncsa.illinois.edu/News/Stories/Hubble3D/

- Won the Giant Screen Cinema Association’s Achievement Awards for Best Picture, Best Cinematography and Best Lifelong Learning
- Worldwide theater viewers since release in 2010 = 4 million people

“Science Storms,” Museum of Science and Industry Exhibit, Chicago Illinois
AVL produced and designed tornado visualization projection and Interactive Kiosk as part of larger 26,000 square foot state-of-the-art exhibit, opened March 18, 2010. AVL worked with Brian Jewett, Robert Wilhelmson, and Glen Romine, UIUC and the Mueum team on the project.

http://www.msichicago.org/whats-here/exhibits/science-storms/

- Museum attendance from 8/15/11 to 8/16/12 = 1.5 million people
“IBEX: Search for the Edge of the Solar System,” Adler Planetarium, Chicago Illinois
23 minute Digital Fulldome Planetarium production of the Adler Planetarium, premiered March 4, 2009. AVL created 4 minutes of astrophysics and astronomy fulldome visualization. Available for free through the ibex.swri.edu website
  • Showing in 22 theaters in 2012 around the world
  • Ranks #10 in theater count out of 183 active fulldome shows in 2011

http://ibex.swri.edu/planetaria/ibexshow.shtml
http://www.ibex.swri.edu/multimedia/mov/ibextrailer_web.mov

“Fragile Planet,” A production of the California Academy of Sciences, San Francisco, CA
25 minute Digital Fulldome Planetarium show, premiered Sept 27, 2008, narrated by Sigourney Weaver.
AVL created 4 minutes of astrophysics and astronomy fulldome visualization for the inaugural show at the Morrison Planetarium. http://video.calacademy.org/details/272
  • Distributed by SkySkan and Lochness Productions, in 5 languages.

Professor Donna Cox, eDream/AVL Director in center and team left to right, Alex Betts, Jeff Carpenter, Stuart Levy, Robert Patterson and AJ Christensen. (2012 photo)