



Solar Projector at Shoreview Park

## Augmented Nature Project (2017 – 2018)

This temporary outdoor art exhibition explored the boundary between nature and technology. Funded in part by a grant from 4Culture, the project features the work of five artists working in collaboration on a variety of installations.

- **Solar-powered 12v Video Projector** (pictured above), installation at Shoreview Park. After much experimentation, a Coleman solar panel of almost eight square feet (75 watts) was able to successfully recharge a 12V 8 Amp Hour Mighty Max valve regulated sealed lead battery, which in turn powered a 12 v Duplee Multimedia LED Projector with 800 lumens, enough to project to a 36"x 24" screen (repurposed dry erase board kept in alignment with wire cables). In the end, the team removed the regulator and relied on the battery's own "valve regulated" system (rather than reducing draw at 11.5 volts). The team also reduced screenings to a single 15-minute presentation at 8:30 pm. The solar-powered video projector was installed at the edge of the urban forest and aimed inward to the dark interior. The concept was originated by David Francis and the technology was entirely worked out by Ray C. Freeman III from Workshop 3D (<http://workshop3d.com/>)
- The 15 minute video was created by Alan Fulle, <http://alanfulle.com>.

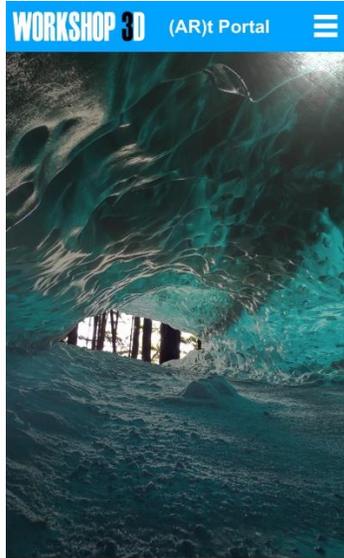
- Another main component of the exhibition, also located at Shoreview Park, was a series of “**Faux-Forest Service Signs**,” consisting of three wooden signs on posts conceived by David Francis (who wrote the text) and made by Joel Kennedy that when viewed with a downloadable app (Workshop 3D) provided additional augmented reality content, including a sweeping historical panorama called *Known Unknowns* by photographer Ken Winnick.



Ken Winnick, *Known Unknowns* (detail), 2017



Faux Forest Service Sign with AR app indicating a gate opening (*These Woods Open to All*)  
David Francis, Joel Kennedy, Workshop 3D



Once & Future Ecosystem  
Joel Kennedy, David Francis, Jeff Mihalyo  
Shoreline, Washington, USA  
Augmented Nature: Shoreline Public Art



Once & Future Ecosystem  
Joel Kennedy, David Francis, Jeff Mihalyo  
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Faux Forest Service Sign with AR app indicating glacial ice and mammoths (*Once & Future Ecosystem*)  
David Francis, Joel Kennedy, Workshop 3D



Replications of the signs mounted on foam core and post for viewing at City Hall (Workshop 3D)

