ANZAGG 3D Meeting Minutes  
Wednesday 16 November 2022

# 1. Roll call with self-introductions

Meeting chaired by Leona Holloway, Monash University

7 attendees from Monash University, University of Washington, NextSense, Victorian Department of Education, Yooralla, ACT Department of Education

# 2. Icebreaker – What have you been designing/printing in the last month?

* ellipse with runner around the edge and an elastic cord connected to the two loci (on ends) and the runner. It is from the new non-scriptum geometry book. They are all customisable with SCAD files.
* CVC (consonant, vowel, consonant) twisters. Trying to do maths but the joints get stuck for longer twisters. The designs are available on Thingiverse at <https://www.thingiverse.com/thing:5271079> & <https://www.thingiverse.com/thing:5633060>
* Trying to make accessible electronics
* Trophies for students – one set with Perkins brailler on top and another with 3D scanned busts using a Kinect. Another member commented that they has just bought a second hand Kinect - they can do a lot but are not available any more.
* The SVRC catalogue can be found at <https://www.svrc.vic.edu.au/alternative-format-catalog>
* making lots of copies of the Goldilocks 3D objects.
* printed the ballyland helicopter from Sonokids
* Thinking of using 3D printing on paper to create an alphabet book.
* Trying to mount a radio on a wheelchair. They are using TinkerCAD and will use the 3D print in combination with a commercial mounting device. We discussed the value in combining 3D printing with ready-made (and stronger) parts.
* Will be going to a 3D printing workshop in Adelaide next week.

# 3. Guest Speaker – Abigale Stangl, University of Washington

We now have datasets about what BLV people ask about visual information. But how do we create materials that prompt further enquiry?

Dataset of annotated tactile media, with design considerations while making the materials.

Uni Colorado program adding interactive descriptions to simulations using HTML5, e.g. for physics.

Some of the 3D printed tactile picture story books that Abi created had moving parts. They also embedded solar cells in the page to detect touch and trigger audio. Another group used magnetic pieces across a board to guide a hand across a surface and track information on the page.

# 4. Other business

## 4.1 New resources

* [3D augenbit](https://medien.augenbit.de/category/modelle/) has lots of new models such as an extendable number line and trays for braille letter/number tiles
* [Dream Fields](https://ajayj.com/dreamfields) is a tool (in beta testing) for automatically generating 3D printable models from a written description
* [Stars in Your Hand](https://mitpress.mit.edu/9780262544153/stars-in-your-hand/) book about 3D printing for touch access to astronomy by Kimberly Arcand and Megan Watzke
* [Make:able 2023](https://weareprintlab.com/blog/makeable-2023-launches) 3D design competition for assistive technology is now open, until 1 May 2023.

## 4.2 Video tutorials

At the final expert advisory meeting for the ARC Linkage Project investigating 3D printing for touch readers, they suggested making some short, easy videos on 3D printing for touch readers. Is this a good idea? What topics would you suggest?

# 5. Next Meeting

Next meeting will be brought forward to 14 December.