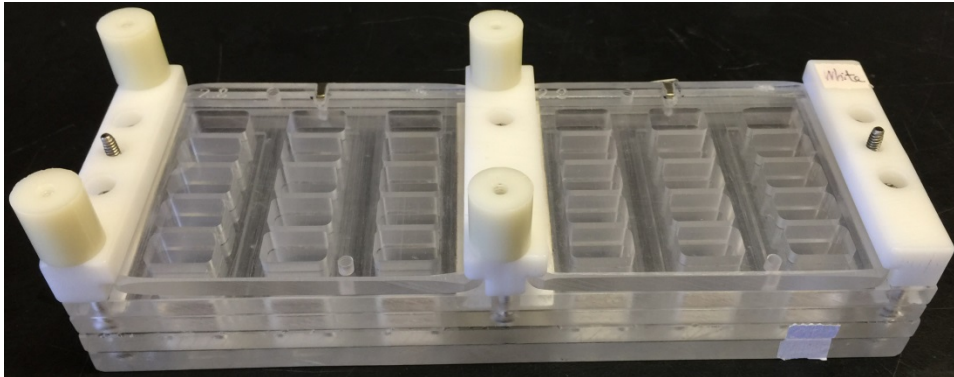


Design of our Egg-laying Chambers

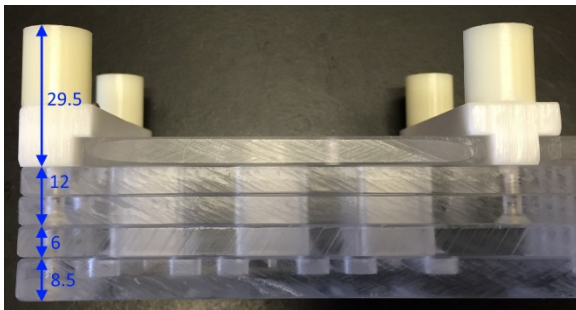
Ulrich Stern and Chung-Hui Yang

Questions: ulrich.stern@gmail.com

Angled view of apparatus

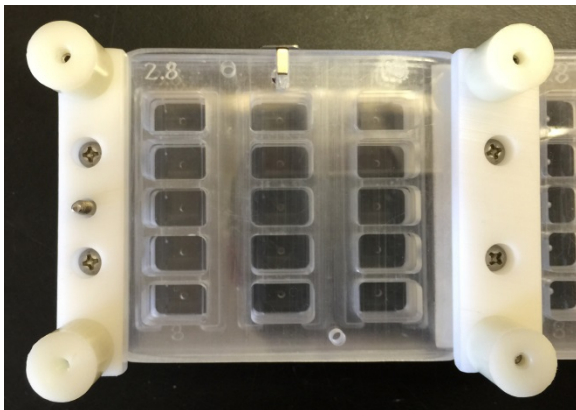


Side view

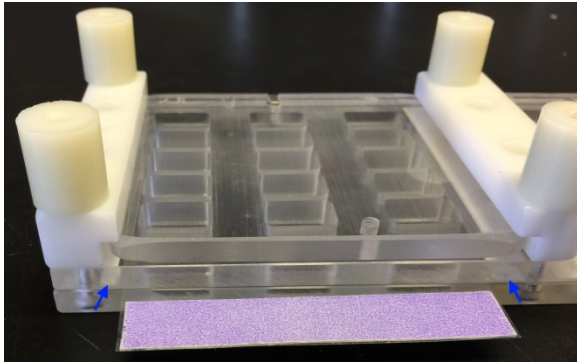


All lengths in this “design document” are in mm.

Top view

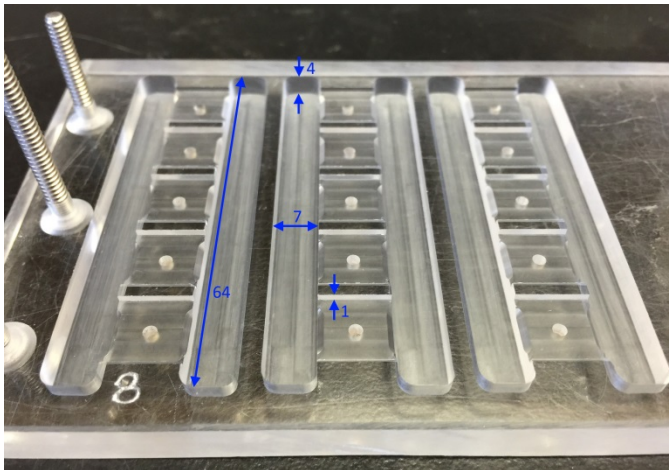


Top portion of apparatus



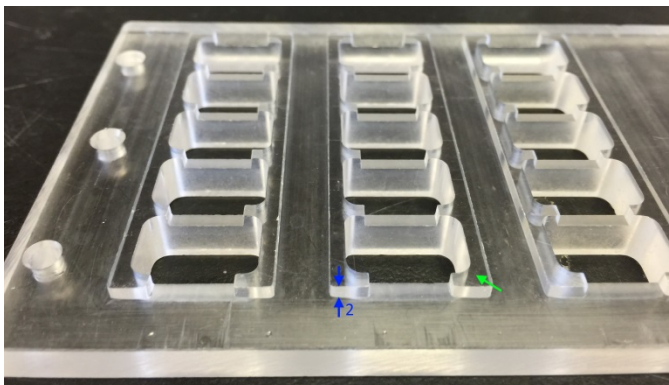
Top portion can be separated from bottom. Before loading it with flies, a transparency is first inserted between layers. Colored tape (arrows) creates a small gap between the layers.

Apparatus base with troughs for egg-laying substrates



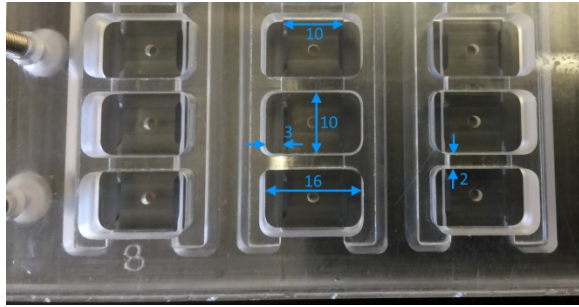
Troughs are filled with liquid agarose. The agarose should be a little more than 2mm high from the bottom of the trough. $2 \times 7 \times 64 \text{ mm}^3 = 896 \mu\text{l}$, so we typically use 950 or 1000 μl per trough.

Part above base (upside down)

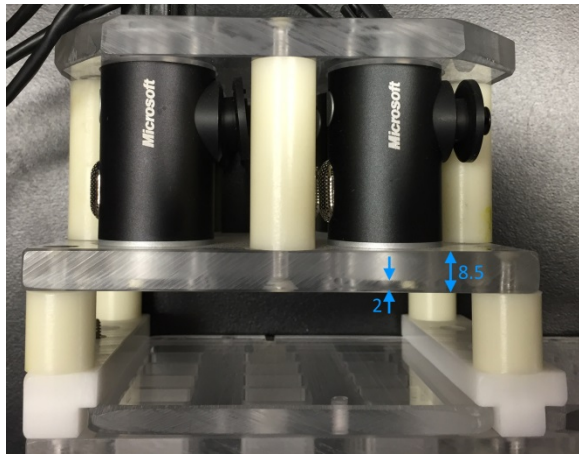


The elevated surfaces (green arrow) of this part (shown upside down) touch the agarose when the apparatus is put together.

Dimensions of single chamber



Camera holder attached to apparatus



The front edge of the LifeCam Cinema cameras in the camera holder is 2mm above the bottom of the camera holder

Sample picture from one of our videos (recorded at 640x480)

