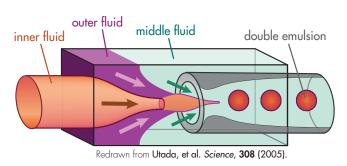
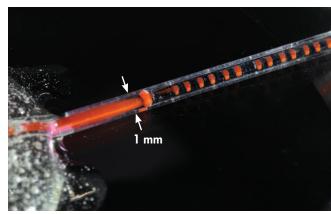
Photographs and Illustrations Spreads for portfolio

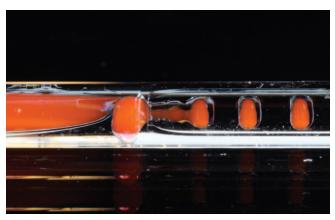
Steve Kranz 2013

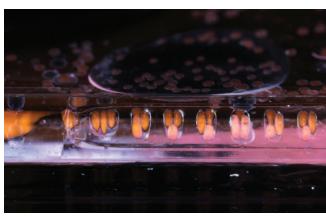
Microcapsules for carbon capture by John Vericella and Elizabeth Glogowski

inner fluid MEA middle fluid pre-cured polymer solution outer fluid aquoeous solution

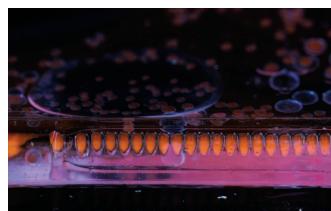


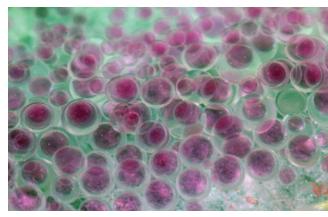






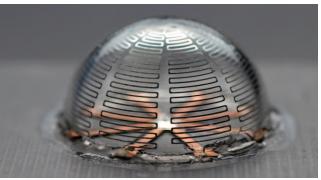




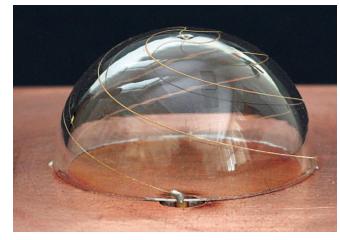


Hemispherical antennae constructed by Scott Slimmer, designed by Jake Lastname













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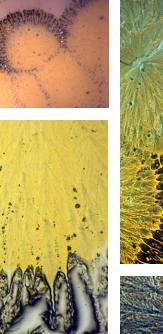
Silver nitrate dissolved in polyethylene glycol diacrylate



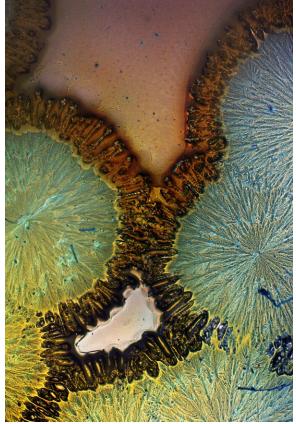
AgNO₃ in PEG-DA on glass imaged through an inverted microscope. Above, the angle of transmitted light was adjusted to combine light- and darkfield illumina-









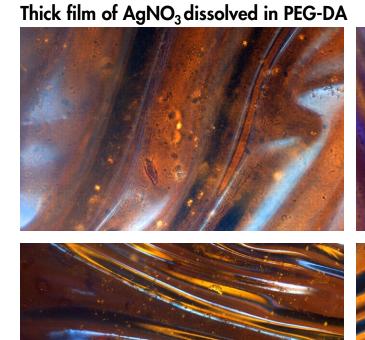


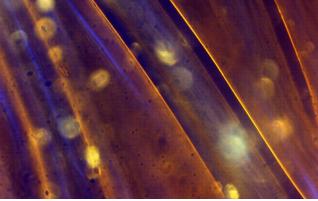


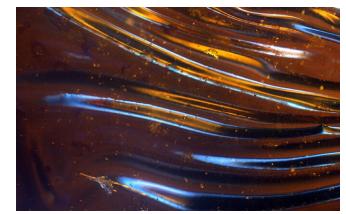


Left, I dissolved silver nitrate (AgNO₃) in polyethylene glycol diacrylate (PEG-DA), along with a crosslinking agent. I spun coat this solution onto 1" square glass slides. After deposition, the silver salt crystallized until the polymers was soldified by UV curing.

Below, a thicker layer was spun coat on glass. The film wrinkled and delaminated after curing.













Hot air ballon festival Steamboat Sprins, CO.











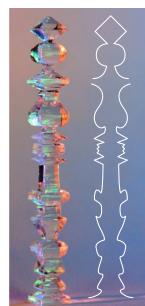


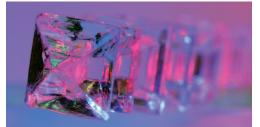


Laser cutter chess pieces



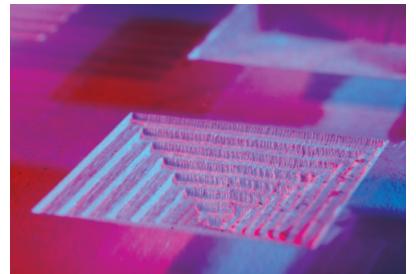






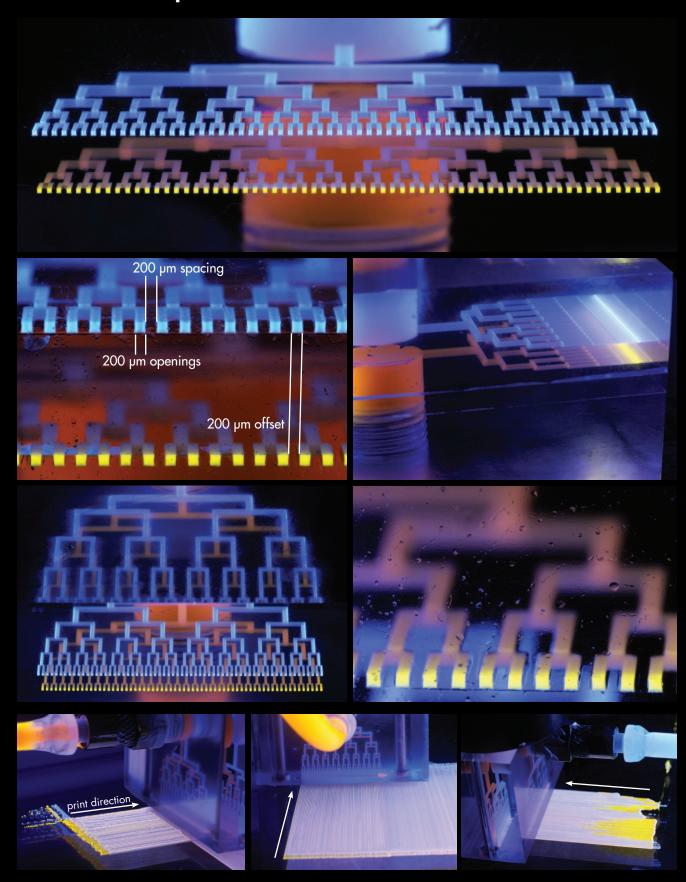


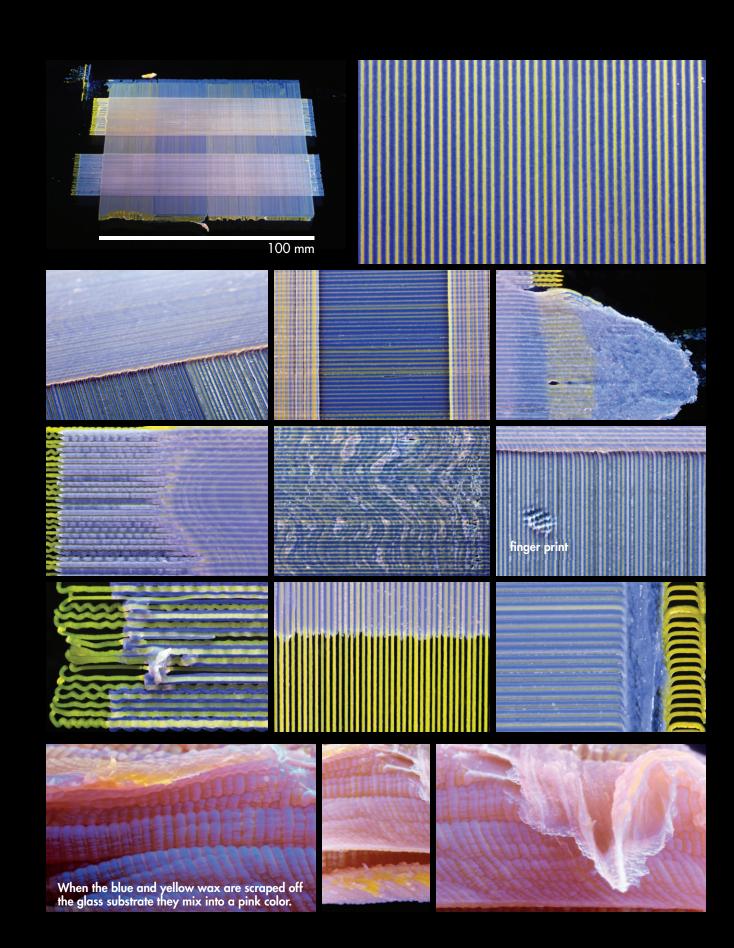




34 3.

Two material deposition





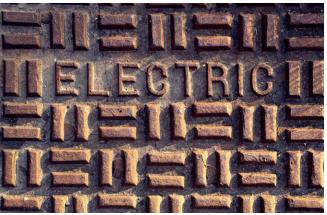
Manhole covers at sunset Urbana, Illinois



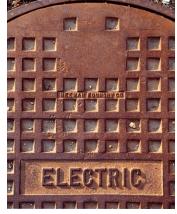
















San Fransisco











HOTEL Prohème











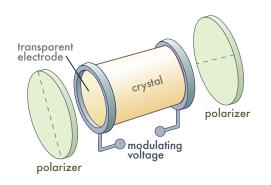






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Diagrams and plots redrawn from literature



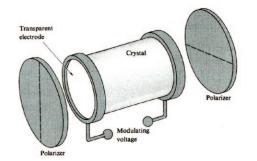
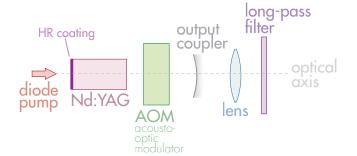


Figure 8.57 A Pockels cell.



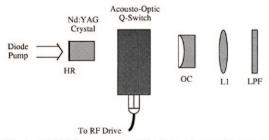
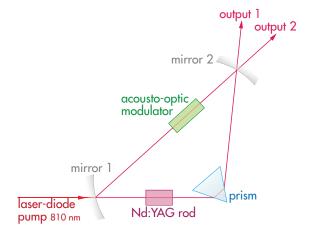
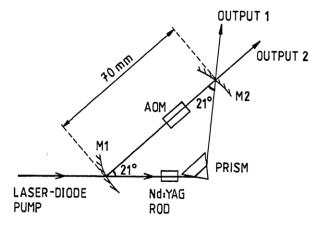
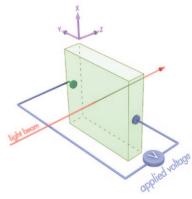
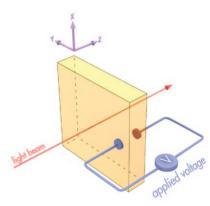


Fig. 1. Nd:YAG laser system: HR, high reflector; OC, output coupler; L1, lens; LPF, long-pass filter.

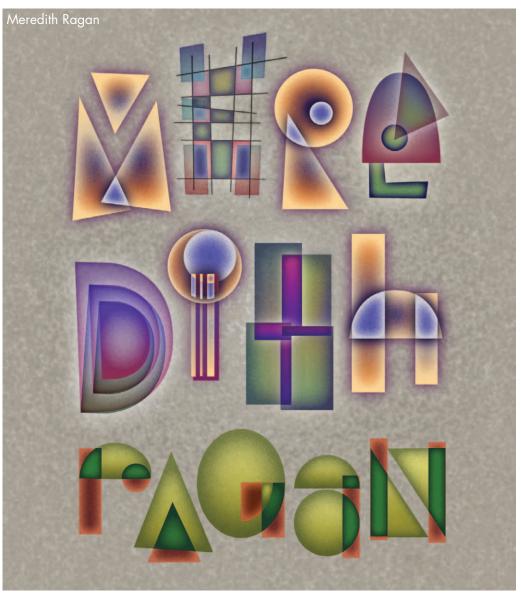








Office door nametags





40 41



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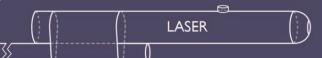
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Lars Blarnsfield, professional enthusiast

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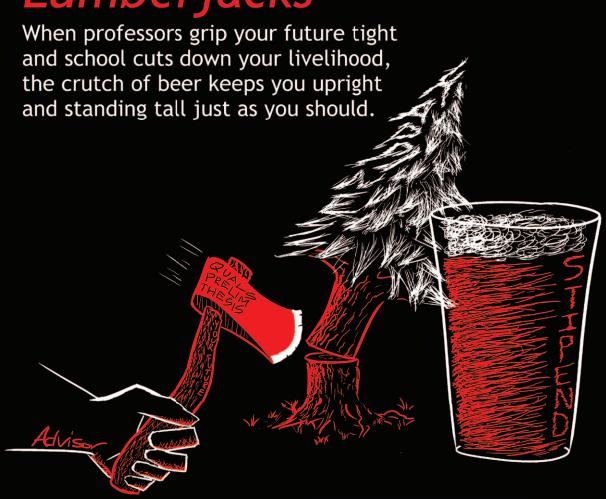
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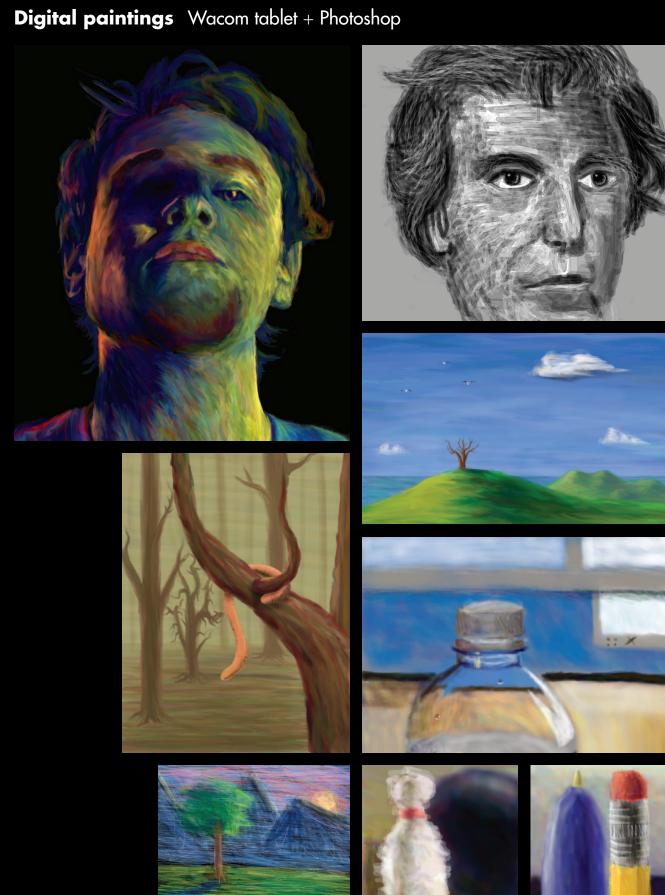
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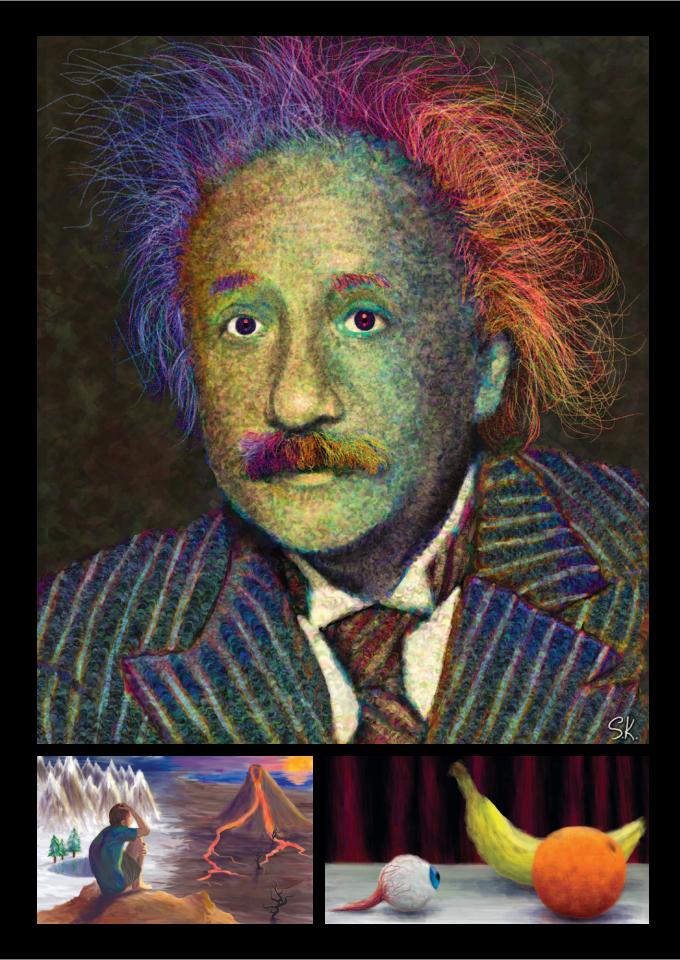
Bar crawl t-shirt design

3rd Annual MatSE Bar Crawl 2

Lumberjacks







Colorful logarithmic spirals









Colorful swirly patterns





How to create a colorful logarithmic spiral in Photoshop



Step 1 Create a wacky shape using the pen tool.



Step 2Give the shape colorful layer styles. Rasterize the layer.



Step 3
Rotate the layer about a point near an end of the shape, while shrinking the width and height



Duplicate the layer and repeat the transformation. (cmd+J, cmd+shift+T). Repeat these two commands several dozen times.





Step 5 Invert some of the elements of the spiral.

Even spirals can be spiraled! Flatten a spiral into a single layer. Transform the layer as in Step 3, but move the pivot point outside the layer's bounding box.









Step 7
Duplicate these new layers repeatedly, as in step 4.



Sequentially shift the hues of each spiral element by 30° to give the spiral a rainbow coloring.

Edgar abcdefghijklmnopgastovwxyz abcdefghijklmnopgastovwxyz

edgar's dream abcdefghijklmnopqrstuvwxyz

Wonder

ABCDEFGHIJKLM NOPORSTUV WXYZ

abcdefghijklmnoponstvvwxyz