



Technology Transition Workshop | *Brian Dalrymple*

Luminescence Photography

Conventional Photography vs. Luminescence Photography



Subject

Conventional

- ❖ X% of reflection

Luminescent

- ❖ 0% reflection
- ❖ 100% emission!

The Subject



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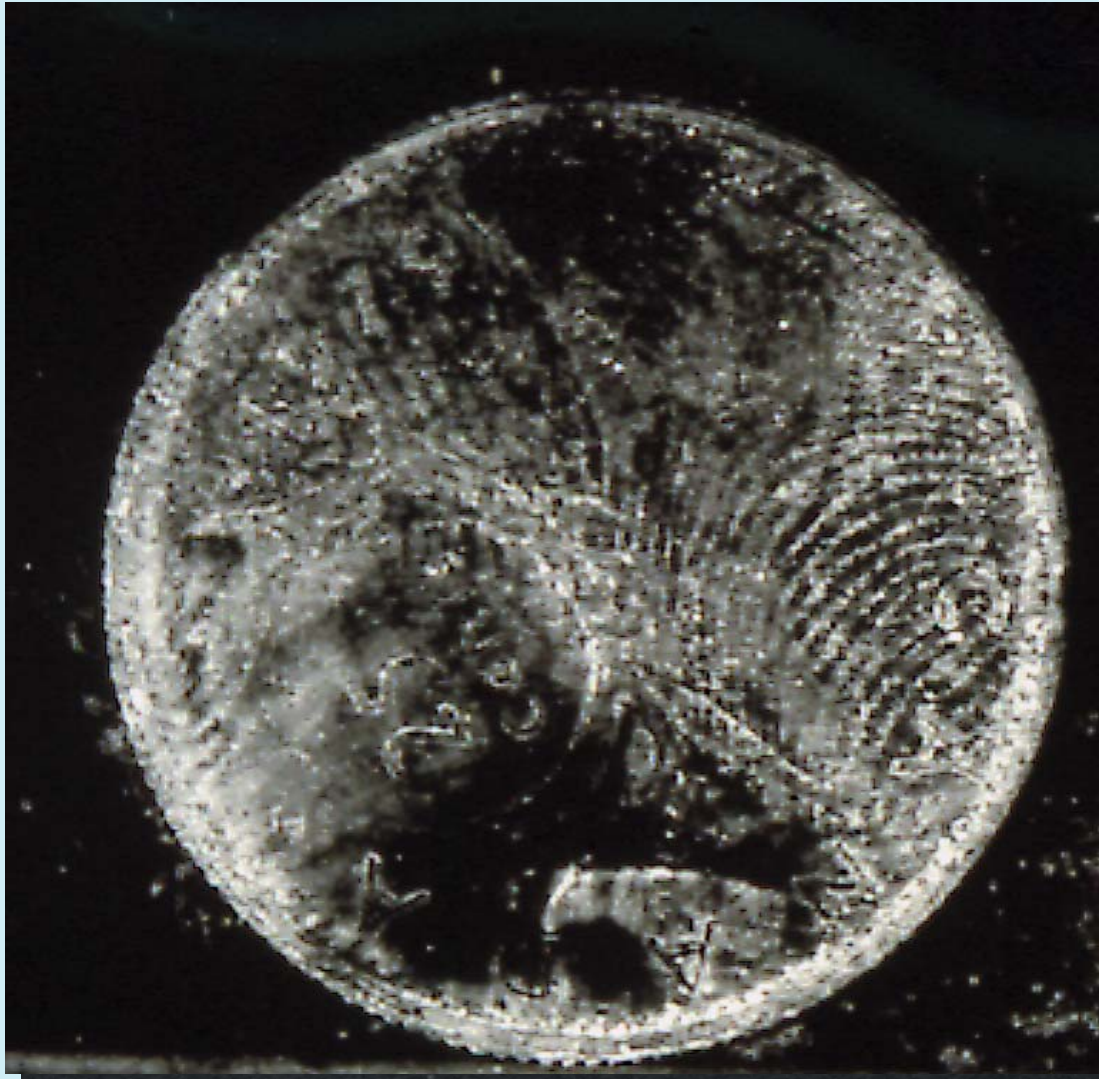




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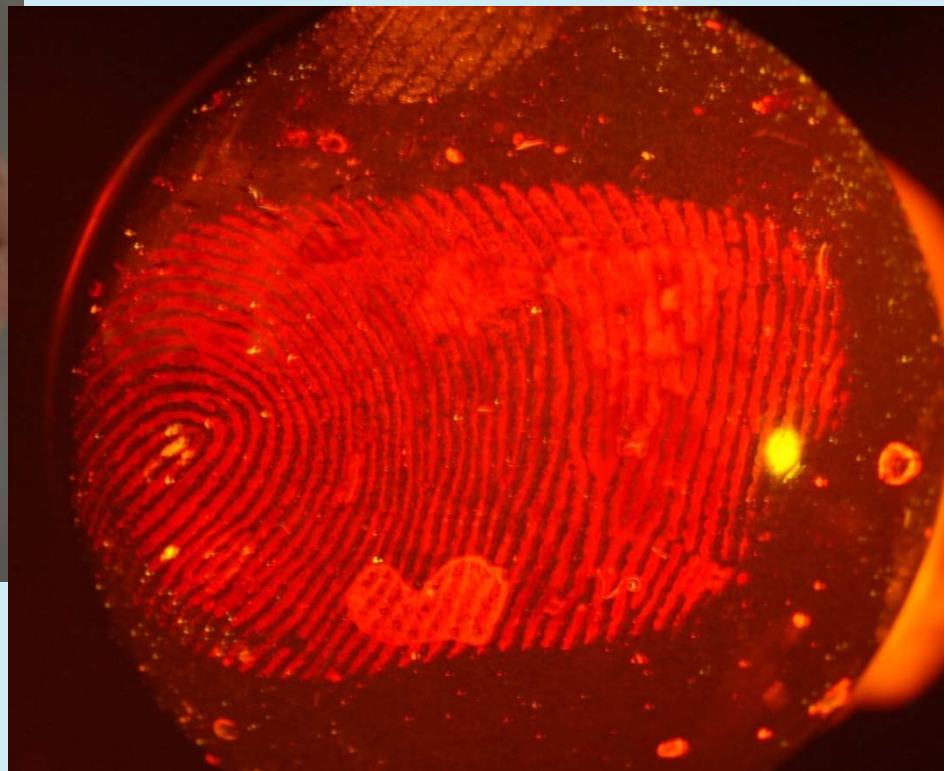
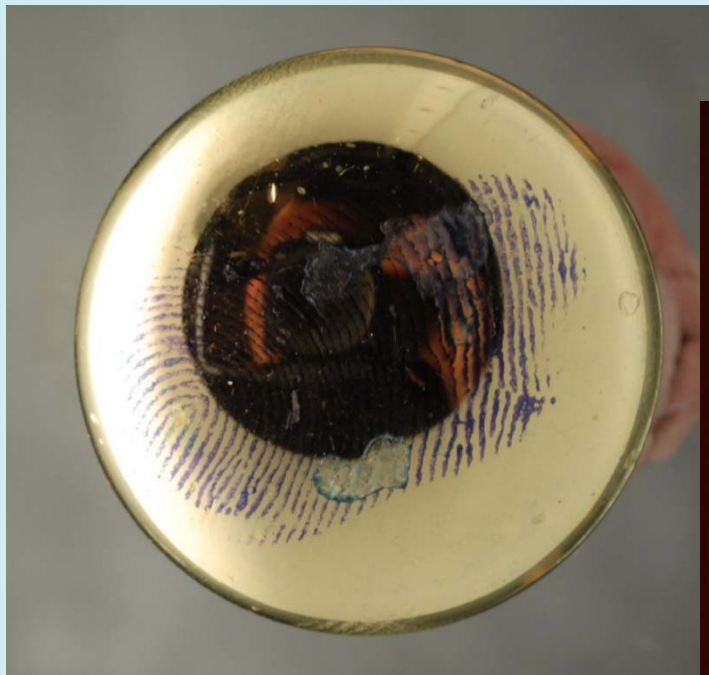




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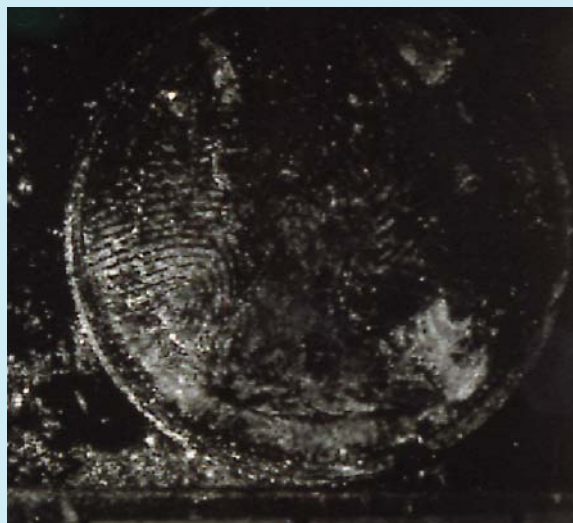
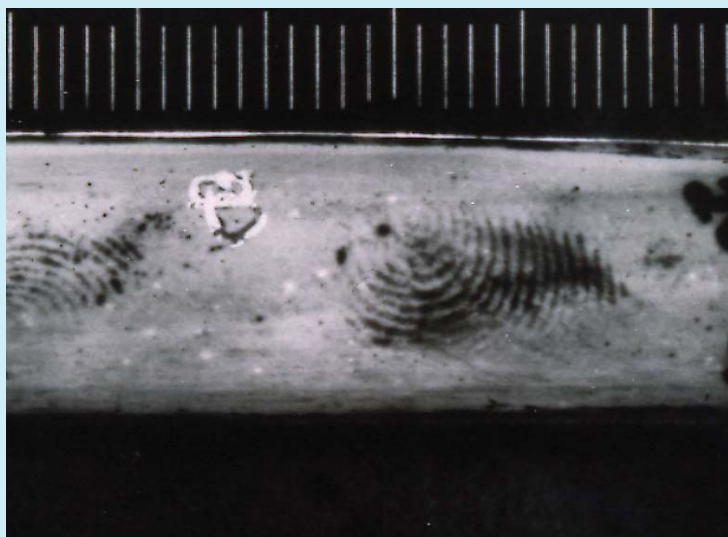


Subject



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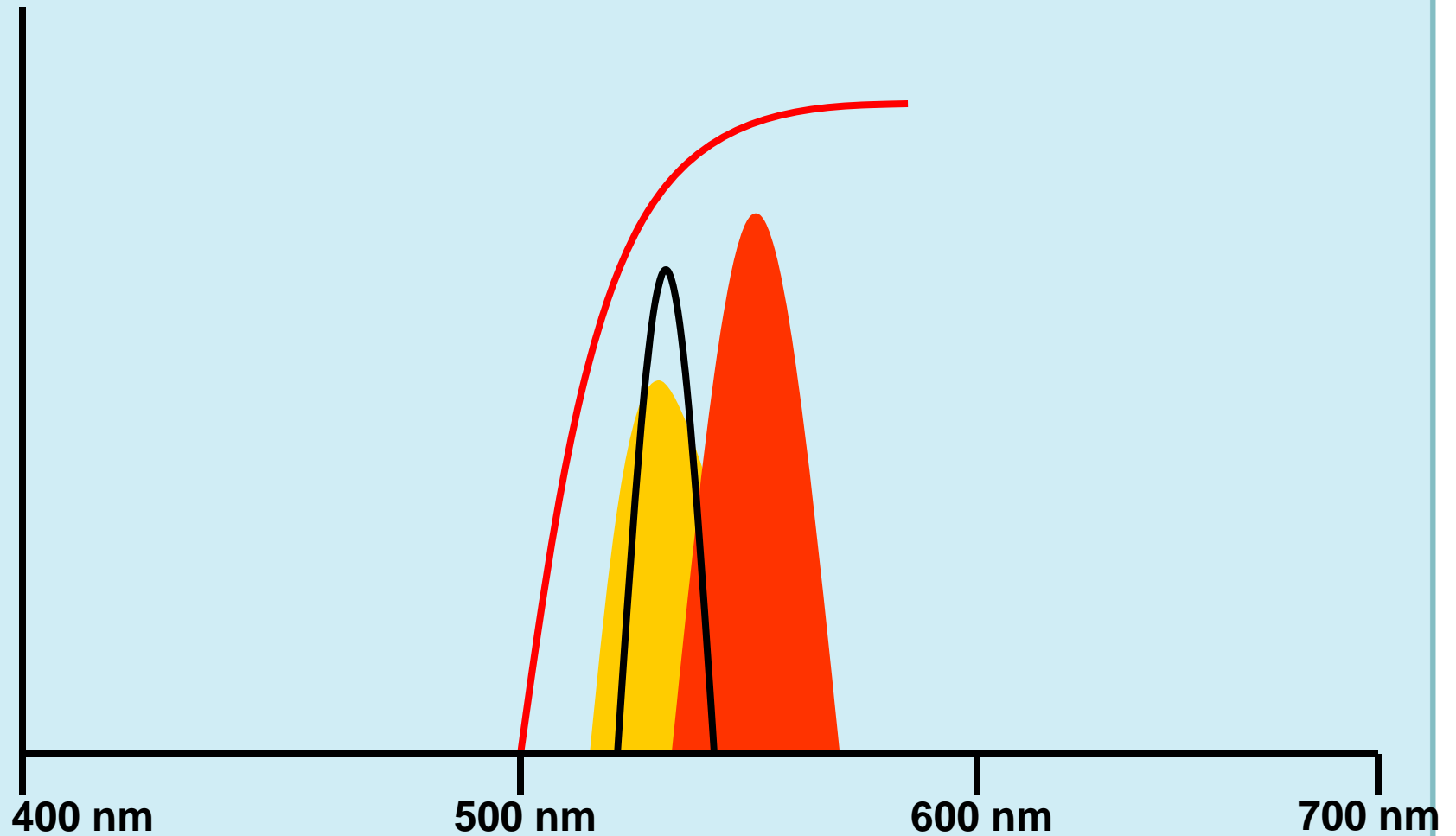


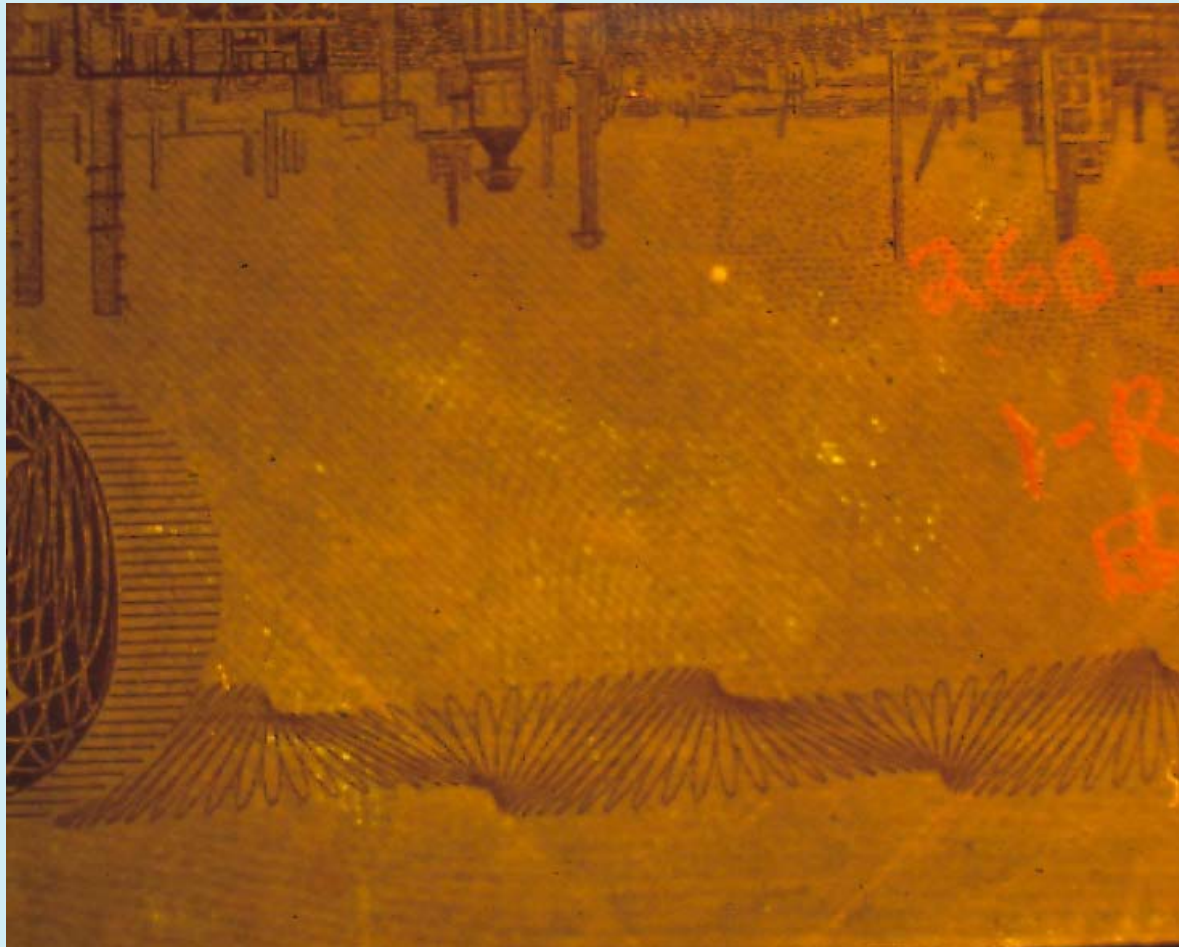


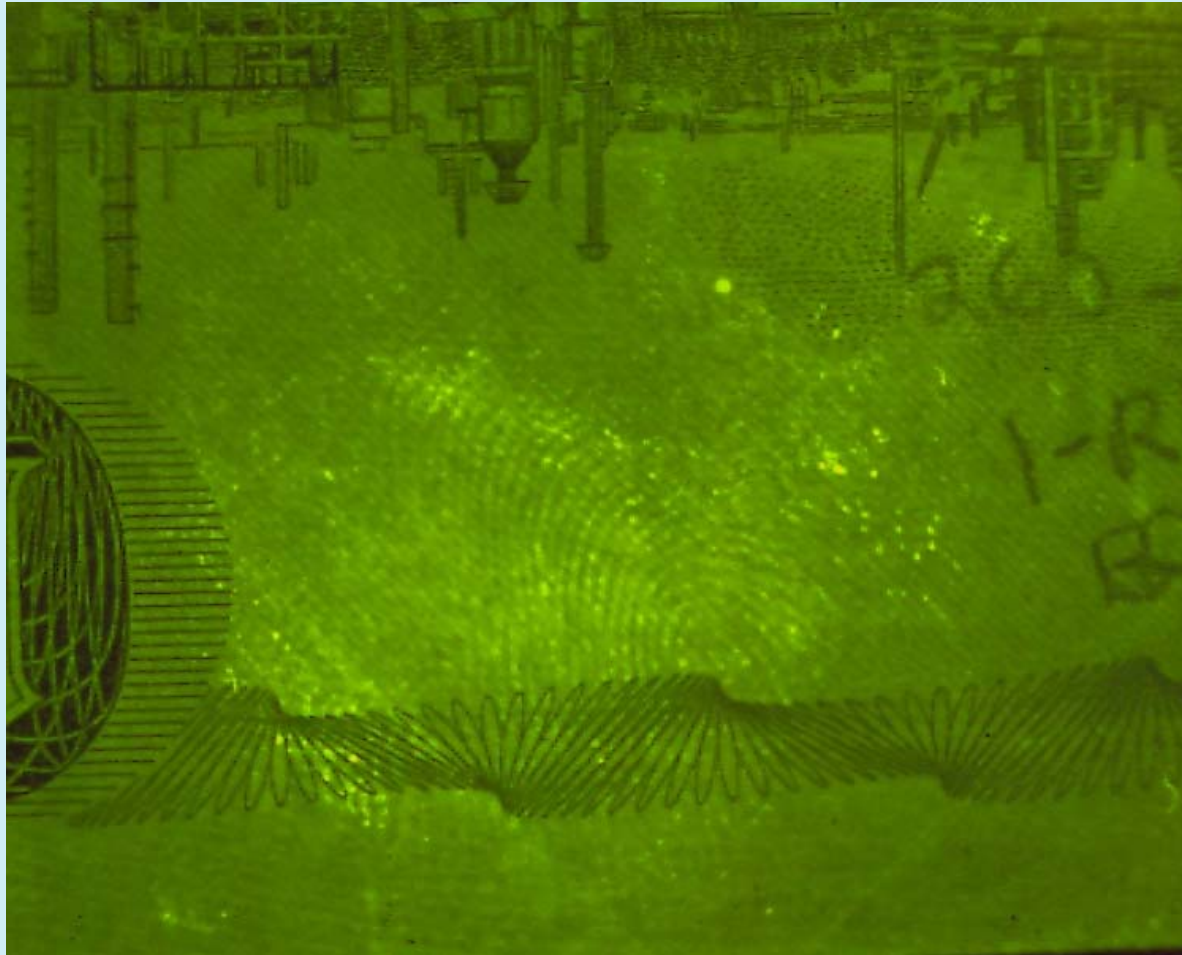
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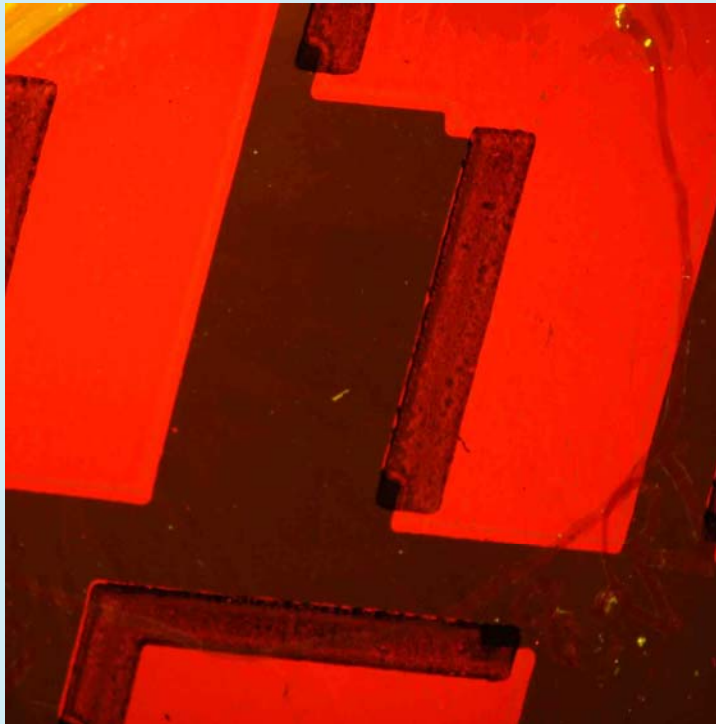
Narrow Band Filters



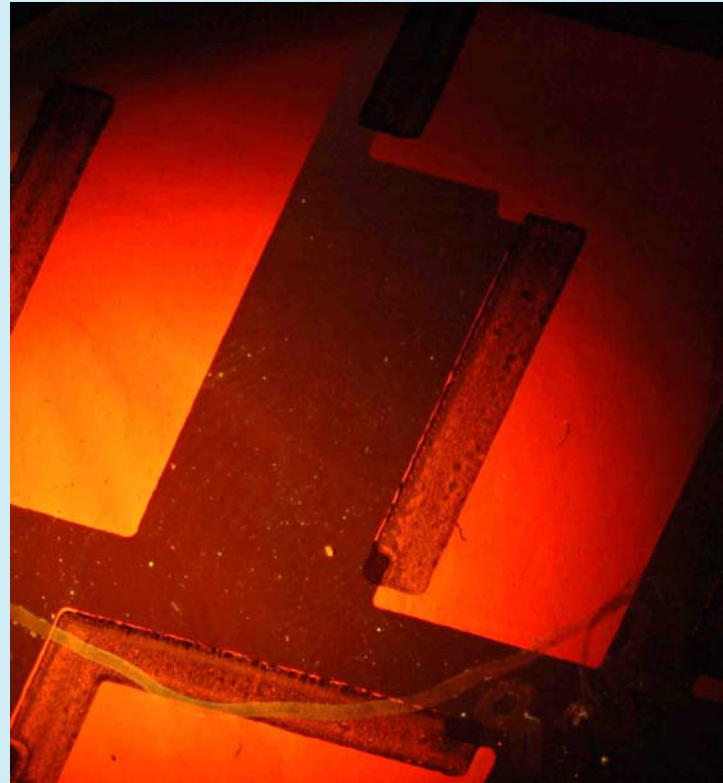




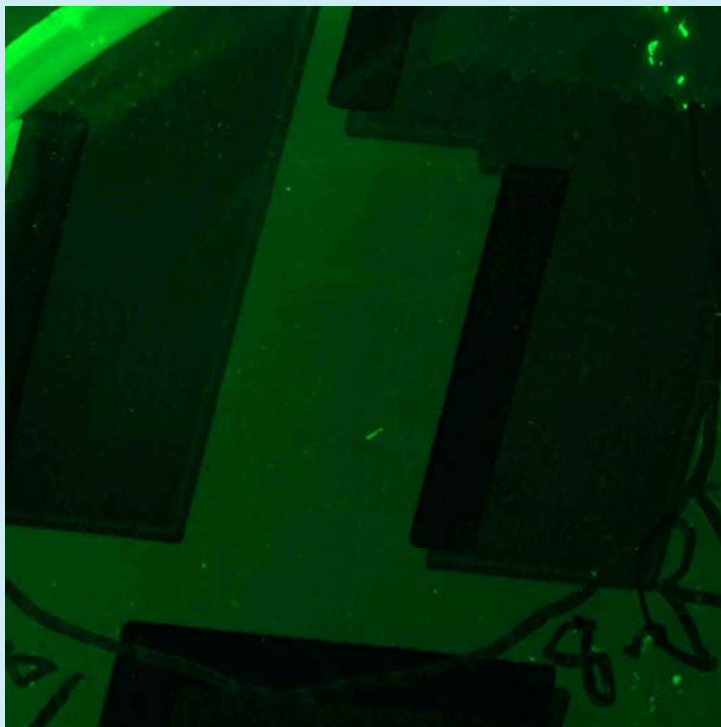
Polilight[®]



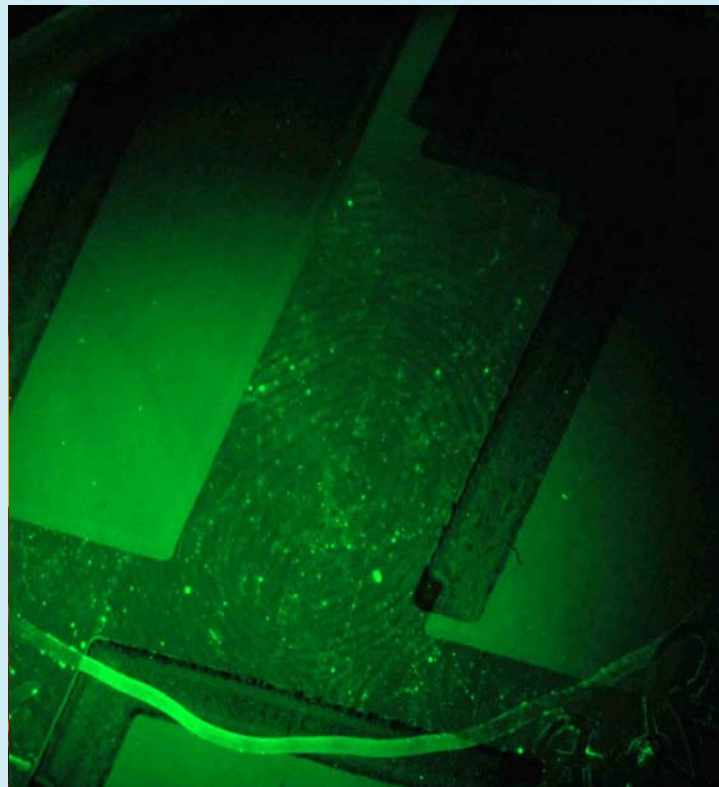
Laser



Polilight[®]



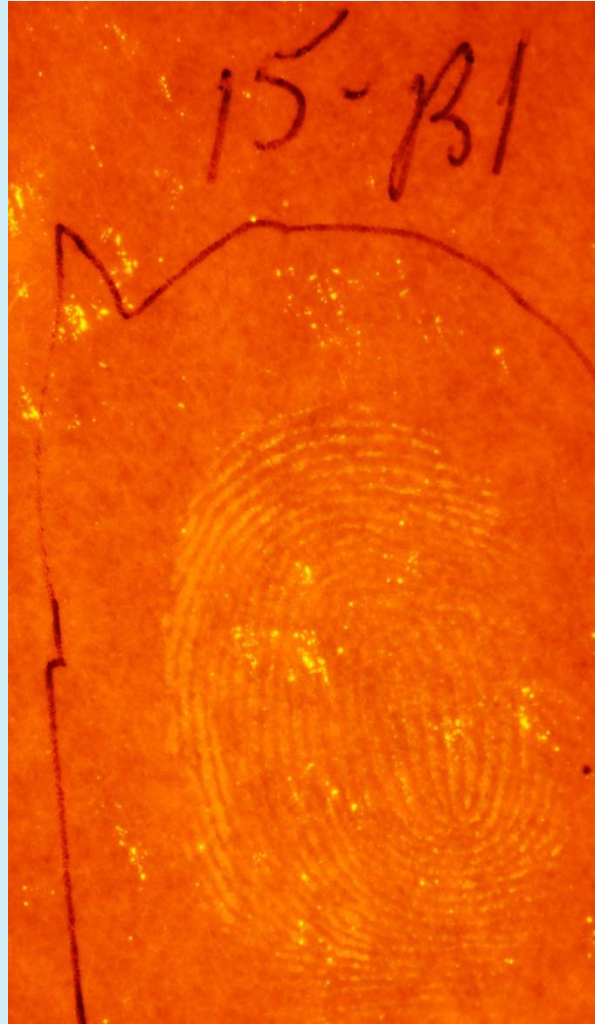
Laser



Polilight®

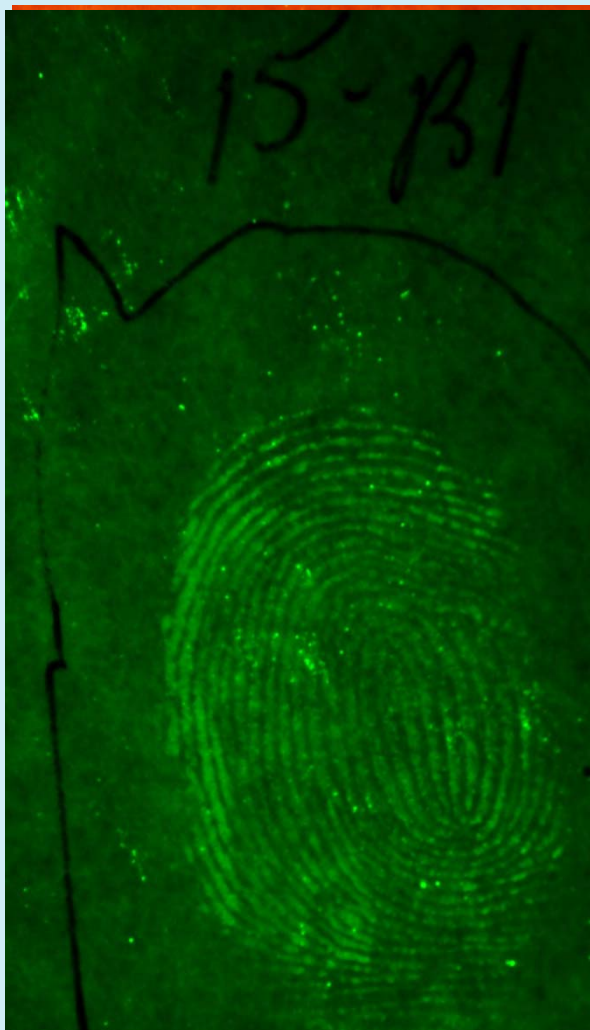
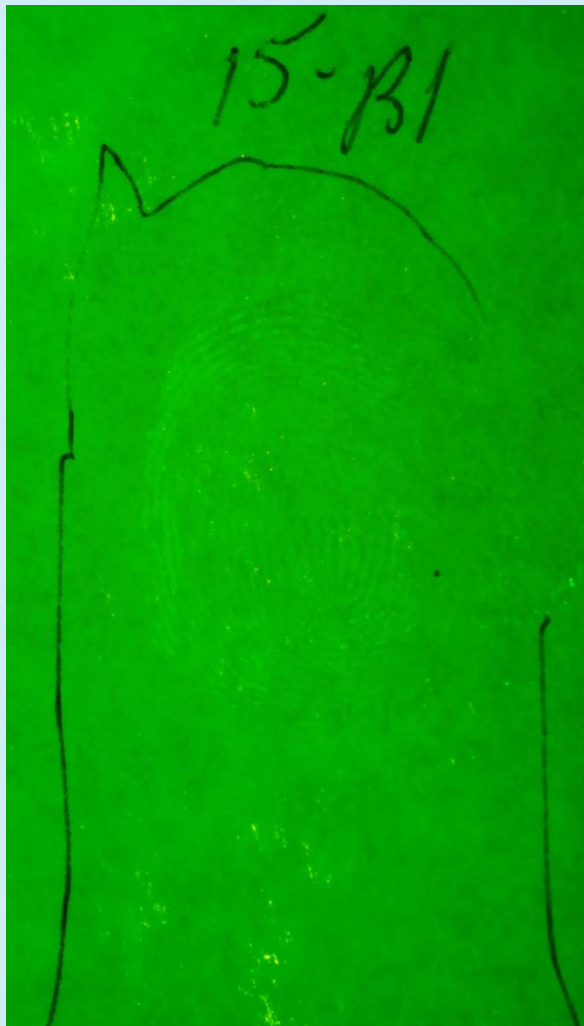


Laser

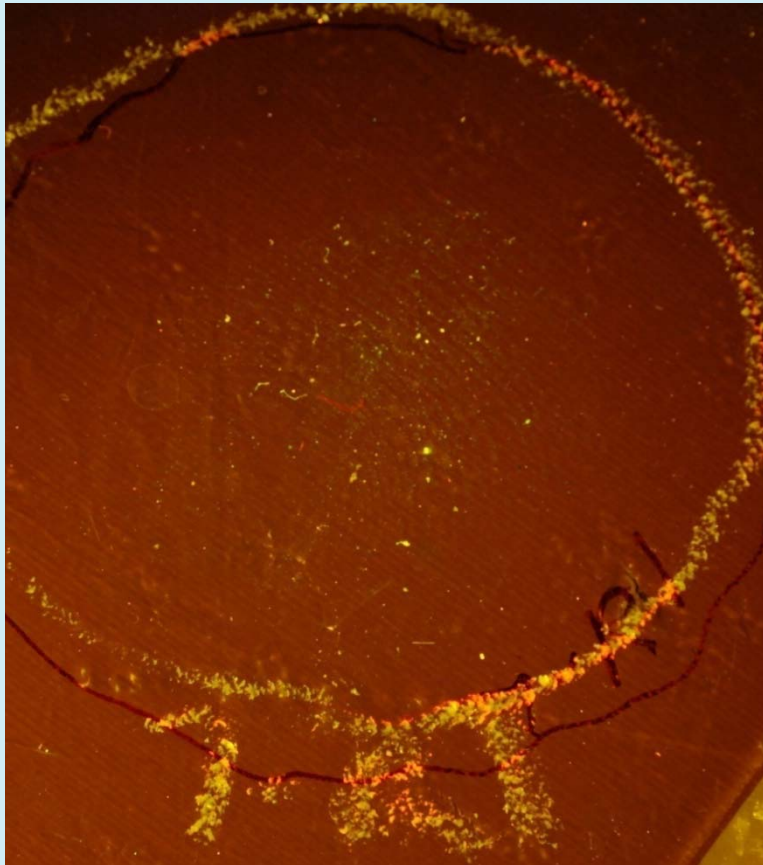


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Laser



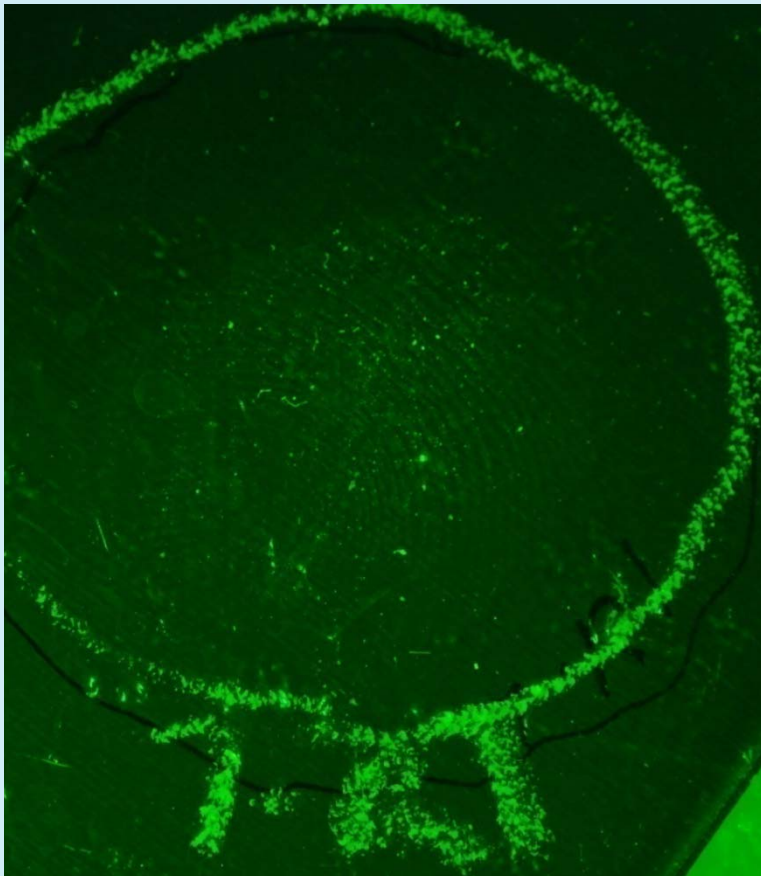
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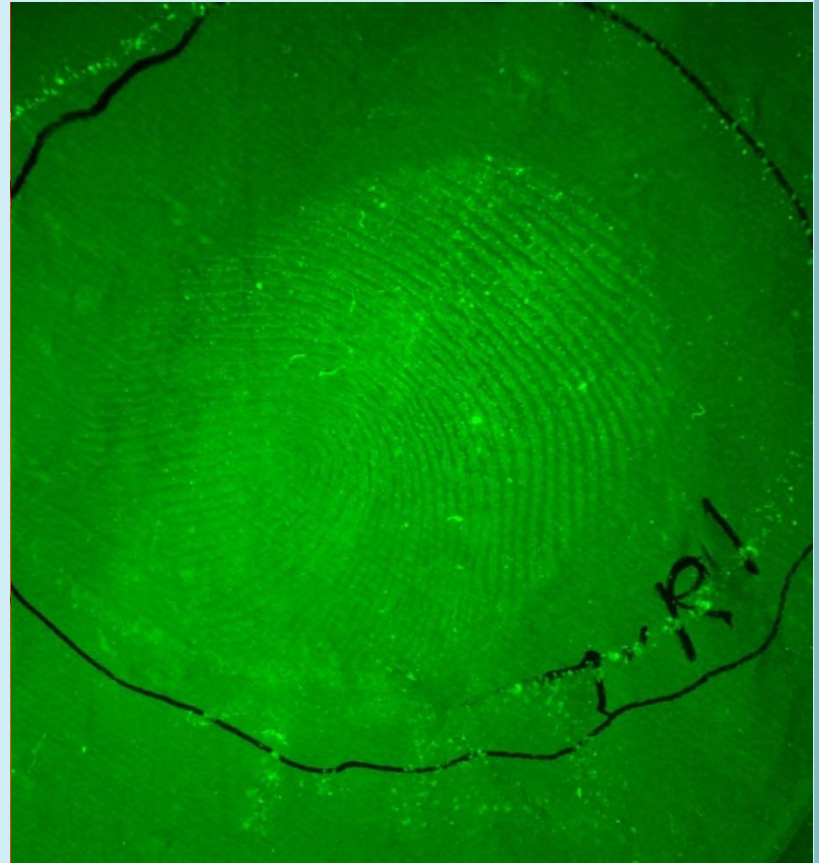
Laser



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Laser



Light Sources

Conventional

- ❖ Available light
- ❖ Flash
- ❖ Fluorescent lights
- ❖ Tungsten
- ❖ Full visible spectrum

Luminescent

- ❖ Lasers
- ❖ Forensic Light Sources
- ❖ UV sources
- ❖ Monochromatic
- ❖ Filtered source
- ❖ Partial visible or UV spectrum

Light Sources (Reflected)

- ❖ Angle of light
- ❖ Direct light
- ❖ Diffuse light
- ❖ Impact on clarity of subject

Light Sources (Luminescence)

- ❖ Angle of light changes intensity
- ❖ Direct light not relevant
- ❖ Diffuse light not relevant
- ❖ **Uniformity** (evenness) of light

If you see reflection through the goggles, or in the image on your camera back, something is wrong!

Troubleshooting

- ❖ Change excitation (primary filter)
- ❖ Change barrier filter
- ❖ Consider narrow band filter

Questions?

Contact Information

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Note: All images are courtesy of Brian Dalrymple.