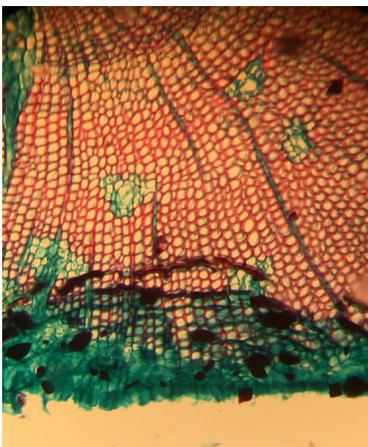


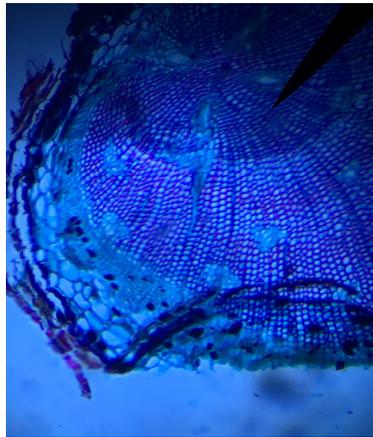
LEDs and Color

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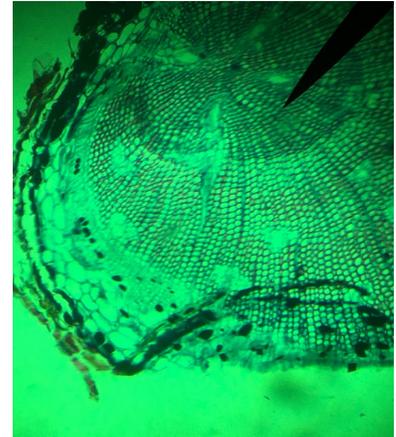
I was quite proud when I converted my AO travel microscope to LED illumination, but recently when I wanted to take a picture of a colorful object, I experienced a disappointment. I was always wondering about the color spectrum of LEDs. I have one of those cheap spectroscopes. I compared the LEDs spectrum with other illuminators and was kind of satisfied with the colors present, although the red was very narrow, but present. Visually, the blue color effect is not too bad, but on any of my cameras, even the iPhone, the colors are disappointing. Below pictures show the difference between halogen and LED illumination. All pictures taken with an iPhone.



Halogen



LED



LED green filter

Because of battery usage, I use an LED which uses very little current, so my LED selection will be limited. Even considering these bad results, I still like this microscope for travel, since visually it is still pleasant.

Comments to the author welcomed, email – wresch AT charter DOT net.

(Editor's note: Does the marked blue from the white LED reflect the poor auto white balance capabilities of some camera phones and / or the camera's inability to cope with the typical blue spike in a white LED? Comments welcomed.)

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