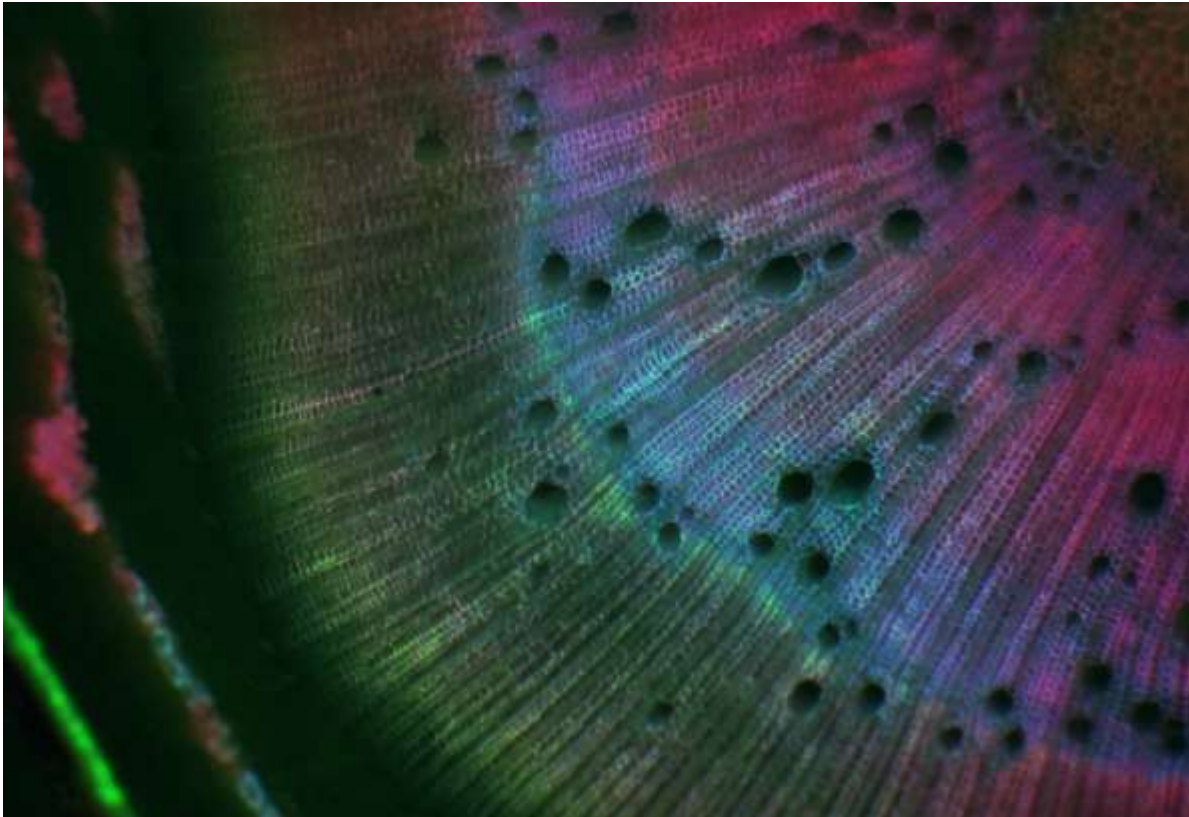


"Development, hydraulic function, and hydraulic failure of woody plant xylem vessels."



Dr. Anna L. Jacobsen

CSU Bakersfield

Friday, April 28, 2017

3:00 – 4:00 PM

Science 2, room 109

For further information: www.csufresno.edu/biology

Vessel elements within secondary xylem tissue mature over several weeks before opening to become hydraulically conductive as part of multi-celled vessels. Vessels that are hydraulically active may become non-conductive due to cavitation and subsequent embolism, or through the formation of occlusions, including gels, gums, and tyloses. Vessels that occur within a stem in different functional stages may impact our ability to evaluate the drought response and susceptibility of plant tissues. This may be particularly critical as new technologies are incorporated into plant hydraulics research, especially for *in situ* imaging using high resolution computed tomography (HRCT; microCT).