

**Blue Intensity (BI) Workshop AMERIDENDRO 2022 – June 27<sup>th</sup>**

**Session Title:** *Blue Intensity for Dendrochronology.*

**Location:** SH Building - Classroom (SH-3220)

**Instructors:** [Rob Wilson](#), [Grant Harley](#), [Karen Heeter](#) and [Emily Reid](#)

**8:30am – 9am**

**Registration:** *Welcome and introduction* [[Rob](#)]

*Introductions (meet and greet), explaining the aim and structure of workshop* [[Tea/coffee](#)]

**9:00 – 9:45**

**Introduction:** *Blue Intensity theory* [[Karen](#)]

**9:45 – 10:30**

**Applications of Blue Intensity - Dendroclimatology** [[Grant](#)]

**10:30– 10:45**

*Tea/coffee*

**10:45 – 11:30**

**Applications of Blue Intensity – Dendrohistorical dating** [[Rob](#)]

**11:30- 12:20 pm**

**Brief Introduction to CooRecorder and CDendro** [[Karen](#)]

*CooRecorder: basic functions to measure TRW, latewood BI, working with reference series, saving files, switching between CR and CD.*

Participants are advised to become acquainted with CR/CD using Stockton Maxwell's Dendrochronologia video article and

associated videos from his webpage: <https://sites.google.com/view/treeringist/home>

Maxwell, R.S. and Larsson, L.A. 2021. Measuring tree-ring widths using the CooRecorder software application.

Dendrochronologia 67, 125841. <https://doi.org/10.1016/j.dendro.2021.125841>

<https://youtu.be/c-GNKHVUj9I>

<https://youtu.be/xO7Phc93xyM>

<https://youtu.be/2qQ8yHKVrAY>

**Basic measurement and crossdating of 2+ samples** [[all](#)]

*Individual work for participants*

*Measuring/crossdating 2+ samples from Canada Big White site (Wilson et al. 2014)*

*Direct comparison of latewood BI data with MXD data*

*Advanced participants – measure and compare additional samples*

**12:20 – 13:35** [[all](#)]

**Lunch**

**13:35 – 14.30** [[all](#)]

**Continued Basic measurement and crossdating of 2+ samples**

*Individual work for participants*

*Measuring/crossdating 2+ samples from Canada Big White site (Wilson et al. 2014)*

*Direct comparison of latewood BI data with MXD data*

*Advanced participants – measure and compare additional samples*

*All POS files provided for Big White samples to allow participants to create a site latewood BI chronology.*

*Comparison can be made between LWB and MXD chronology.*

**14:30 – 1500** [[all](#)]

**Limitations of current BI Methods – Emerging techniques, advances, and future initiatives** [[all](#)]

[Grant](#): Trade-offs of BI vs QWA: initial results from high-elevation Greater Yellowstone

[Emily](#): Scanners vs. high resolution capturing systems

[Karen](#): Towards increased reproducibility and accessibility of BI methods

[Rob](#): I-BIND (International Blue Intensity Network Development Working Group)

**15:00 - 16:00** [[all](#)]

Final Discussion and wrap up