

Selected Publications

Schulte PJ. 2012. Computational fluid dynamics models of conifer bordered pits show how pit structure affects flow. *New Phytologist* 193:721-729.

Schulte PJ. 2012. Vertical and radial profiles in tracheid characteristics along the trunk of Douglas-fir trees with implications for water transport. *Trees* 26:421-433.

Schulte PJ and DG Costa. 2010. Xylem anisotropy and water transport - a model for the double sawcut experiment. *Tree Physiology* 30:901-913.

Schulte PJ. 2006. Water flow through junctions in Douglas-fir roots. *Plant. Cell and Environment* 29:70-76.

Schulte PJ and JR Brooks. 2003. Branch junctions and the flow of water through xylem in Douglas-fir and ponderosa pine stems. *Journal of Experimental Botany* 54:1597-1605.

Becker P, RJ Gribben and PJ Schulte. 2003. Incorporation of transfer resistance between tracheary elements into hydraulic resistance models with tapered conduits. *Tree Physiology* 23:1009-1019.

Schulte PJ and DG Costa. 1996. A mathematical description of water flow through plant tissues. *Journal of Theoretical Biology* 180:61-70.

Schulte PJ and AL Castle, Jr. 1993. Water flow through vessel perforation plates – a fluid mechanical approach. *Journal of Experimental Botany* 44:1135-1142.