



Contents lists available at ScienceDirect

Journal of Structural Geology

journal homepage: www.elsevier.com/locate/jsg



Photograph of the Month

Pseudotachylite at the basal contact of the Parry Sound allochthon, Grenville orogen, Canada



Fresh rock cuts created recently during selective upgrading of Highway 522 in Golden Valley village and its vicinity facilitate the detailed study of Grenvillian structures. In western outskirts of Golden Valley village, pseudotachylite veins and breccias are discernible on clean outcrop surfaces of highly strained granodiorite-tonalite gneiss marking the basal contact of the Parry Sound allochthon (Davidson et al., 1982; Culshaw et al., 1997; Wodicka et al., 2000). As at various localities along the Georgian Bay shore, eastern Lake Huron (Tony Davidson and Rebecca Jamieson, written communications), the presence of pseudotachylite veins and breccias attests to seismic failure and friction melting near the basal contact of the Parry Sound allochthon, at middle to shallow crustal levels. 79°49'10.68" W, 45°55'14.22" N. Photograph W.M. Schwerdtner. ©W.M. Schwerdtner.

References

Culshaw, N.G., Jamieson, R.A., Ketchum, J.W.F., Wodicka, N., Corrigan, D., Reynolds, P.H., 1997. Transect across the southwestern Grenville orogen, Georgian Bay, Ontario:

polystage convergence and extension in the lower orogenic crust. *Tectonics* 16, 966–982.

Davidson, A., Culshaw, N.G., Nadeau, L., 1982. A Tectono-metamorphic Framework for part of the Grenville Province. Geological Survey of Canada, Ontario, Paper 82-1A, pp. 275–290.

Wodicka, N., Ketchum, J.W.F., Jamieson, R.A., 2000. Grenvillian metamorphism of monocyclic rocks, Georgian Bay, Ontario, Canada: implications for convergence history. *Canadian Mineralogist* 38, 471–510.

W.M. Schwerdtner*, J.F. Yang

*University of Toronto, Department of Geology, 22 Russell Street,
Toronto, ON, Canada M5S 3B1*

* Corresponding author. Tel.: +1 416 978 3022; fax: +1 416 978 3938.

*E-mail address: fried.schwerdtner@utoronto.ca
(W.M. Schwerdtner)*

16 August 2010

Available online 15 September 2010