1086-05-1718 **R. Christian** and **R. B. Richter*** (brichter@uwaterloo.ca). Embedding a continuum in a surface.

It is well-known, but not trivial, that there are only finitely many obstructions to the embeddability of a graph in a particular surface S. What about embeddability of a metric space in S? For this and many related questions, the nicest spaces to consider are continuua: compact, locally connected, metric spaces. In this case, we use graph-theoretic methods to show that there are finitely many obstructions to embeddability in S. In particular, we show that a continuum M embeds in a surface S if and only if M does not contain any of: a surface of smaller genus than S; the disjoint union of S and a point; one particular graph-like space; or a finite graph that does not embed in S. (Received September 24, 2012)