William M. Higdon* (whigdon314@comcast.net). Let \( \varphi(z) = \frac{1}{4}(1+z)^2 \) be a self-mapping of the unit disk. Does the composition operator \( C_\varphi \) lie within a strongly-continuous semigroup of composition operators on \( H^2(D) \)? Preliminary report.

Let \( \varphi(z) = \frac{1}{4}(1+z)^2 \) be a self-mapping on the unit disk \( D \) in the complex plane. Let \( C_\varphi \) be the induced composition operator on the Hardy space \( H^2(D) \). The question has been posed to some interested parties: “Does \( C_\varphi \) lie within a strongly-continuous semigroup of composition operators?” We provide the answer to the question in the context of a more general result. (Received September 18, 2018)