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Maritza M. Branker* (mbranker@niagara.edu), Department of Mathematics, Niagara University, NY. *Analogy in William Rowan Hamilton's treatment of complex numbers.*

This talk will deal with the use of analogy in William Rowan Hamilton's 1837 treatise. It is based on the joint work of J. Little and Maritza M. Branker, encapsulated in their 2012 article entitled *Analogy in William Rowan Hamilton's New Algebra*. We will discuss Hamilton's extension of the mathematical landscape to include complex numbers. In the 19th century mathematicians were largely uneasy with the idea of complex numbers and Hamilton's justification of their use is notable but largely overlooked in favour of his impressive work on quaternions. (Received September 08, 2013)