

1096-VB-809      **Paul Sisson\***, paul.sisson@lsus.edu, and **Tibor Szarvas**. *Teaching Calculus through History, Intuition, Exploration, and Development (HIED)*.

Calculus is still too often presented as a collection of tools and theorems devoid of human connections and relationships to other topics. This tendency is understandable, given the sheer amount of material many departments try to cram into their calculus sequence, but learning usually suffers as a result. Drs. Sisson and Szarvas, both of whom have many years of experience as professors of mathematics and as university administrators, describe their approach in the classroom and in their textbook as teaching calculus through the use of History, Intuition, Exploration, and Development (HIED). These four themes allow students to learn calculus by making connections with what they already know, what they suspect to be true, what they discover through the use of technology, and what they logically develop with the guidance of the professor and each other. (Received September 10, 2013)