1014-30-1128   **Stacey Muir*** (`muellers2@scranton.edu`), Department of Mathematics, University of Scranton, Scranton, PA 18510. *Subordination results from a differential equation related to the de la Vallée Poussin means.* Preliminary report.

In 2003, Ruscheweyh and Suffridge defined a continuous extension of the de la Vallée Poussin means by way of a differential equation. In generalizing this differential equation, several cases can be linked to well studied integral operators, and this connection will be discussed. In addition, an interesting case developed from this provides a family of subordinate solutions which will also be presented. (Received September 27, 2005)