1125-VG-1760   **Daniel J. Curtin*** (`curtin@nku.edu`), Dept of Mathematics & Statistics, Northern Kentucky University, Highland Heights, KY 41099. *Euler and the Problem of Surface Area.*

Leonhard Euler in his paper (E133, 1750) *De supeficie conorum scalenorum, allorumque corporum conicorum* (On the surface area of a scalene cone and of other conical bodies) amends earlier solutions by Leibniz and Varignon to the problem of the surface area of a scalene cone, i.e., a cone whose base is a circle, but whose vertex is not over the center of the circle; and then extends the approach to other base curves. The speaker has translated this paper and will discuss Euler's solution. (Received September 19, 2016)