

Meeting: 1001, Evanston, Illinois, SS 22A, Special Session on Special Functions, Orthogonal Polynomials, and their Applications

1001-11-341 **Song Heng Chan*** (songchan@uiuc.edu), 1409 West Green St, Urbana, IL 61801. *Generalized Lambert series identities.*

We present two infinite families of generalized Lambert series identities, and deduce several known identities from them. They include an identity due to M. Jackson, a corollary of Ramanujan's ${}_1\Psi_1$ summation formula, and a recent identity of G. E. Andrews, R. P. Lewis, and Z.-G. Liu. (Received August 31, 2004)