1046-A2-697   **George E. Andrews*** (`andrews@math.psu.edu`), Department of Mathematics, McAllister Bldg., Penn State University, University Park, PA 16802. *Surprises from Ramanujan's Lost Notebook.*

One of the charms of number theory is the unexpected. Often a surprising turn of events reveals both the beauty and the power of number theory. Ramanujan's Lost Notebook is filled with tales of the unexpected disguised as seemingly innocent q-identities. In this talk I shall discuss a few of the surprises in the Lost Notebook that illustrate this phenomenon. These may range from unexpected appearances of arithmetic in quadratic fields to amazing formulas for L.J. Rogers's false theta functions. (Received September 10, 2008)