

Title: Update Report on Analytic Element Ground-Water Modeling as a Research Program (1980-2006)

Author: Stephen R. Kraemer, Ph.D.

Affiliation: USEPA Ecosystems Research Division, Athens, GA
Kraemer.Stephen@epa.gov

Activity of the analytic element method research program for ground water flow modeling was investigated through the publication record from 1980-2006. A database for references is being maintained as a master BibTeX file. Citation information was obtained from the SCI Journal Citation Reports and the Web of Science databases maintained by the Institute for Scientific Information (ISI). Total publications by year are presented in a histogram, showing an increasing trend. A classification of ground water flow publications by numerical solution technique (finite differences, boundary elements, finite elements, analytic elements) is shown as a pie chart. A scientific genealogy is presented as a “family tree” starting with analytic element founder Professor Otto D.L. Strack of the University of Minnesota. The references database and the family tree are maintained on the community webpage (www.analyticelements.org).