GENEALOGY DATABASE ENTRY

Wilhelm, Richard Herman 1909 - 1968

DEGREE: PhD DATE: 1937 PLACE: Columbia
TEACHER/RESEARCH ADVISOR: McKee

developed theoretical models of fluid transport through chemical reactor systems, specifically studying how to achieve a stable set of reactor conditions in spite of the continued flow of reactants and products through a high temperature environment; studied fluid flow and viscometry and modeling of particle flow through packed and fluidized catalytic beds, esp. for predicting how dispersion processes lead to regions of abnormally high temperature; originator of much of the standard terminology in the field of heat and mass transfer phenomena in systems of turbulent flow; developed the method of parametric pumping, a method of separating liquid mixtures by pumping a solution through a column of fixed solid adsorbent while synchronously varying two of the system's parameters, such as temperature and direction of flow.

1. For confirmation of thesis advisor, see *Ind. Eng. Chem.* **1936**, *28*, 662-667.
2. *Dictionary of Scientific Biography*; Charles Scribner's Sons: 1970-1990; vol. 18, p990-992.
3. *McGraw-Hill Modern Men of Science*; McGraw-Hill: 1966; vol. 2, p600-601.
4. *Ind. Eng. Chem. Fund.* **1969**, *8*, 178-179.
5. *Chem. Eng. Educ.* **1983**, *17*, 10-15 and 38-41.
6. *National Cyclopaedia of American Biography*; James T. White & Co.: 1921-1984; vol. 54, p545.