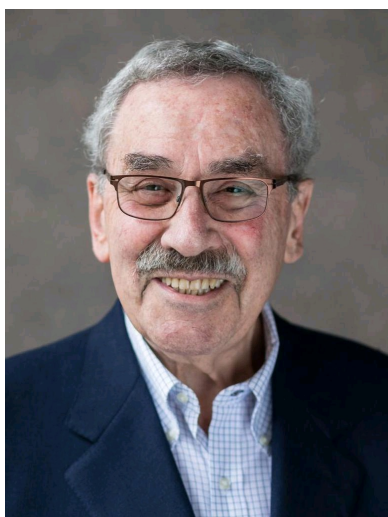


Chemical Engineering & Materials Science

UNIVERSITY OF MINNESOTA



Ken Keller

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Education

B.A., Liberal Arts, Columbia University, 1956

B.S., Chemical Engineering, Columbia University, 1957

M.S.E., Chemical Engineering, Johns Hopkins University, 1963

Ph.D., Chemical Engineering, Johns Hopkins University, 1964

Research Interests

My research efforts in the past have focused on transport phenomena in biological systems. Most of the emphasis was on phenomena that arise as a result of the physicochemical and mechanical properties of the cellular and macromolecular constituents of flowing blood. Projects addressed the damaging interactions of blood constituents with synthetic materials and the effects of red blood cell diseases on blood rheology and solute transport. We also undertook a number of investigations into the mechanisms of cell motility and its effects on the survival of cell populations, with a particular focus on myxobacteria.

Although these issues remain of interest, in recent years, essentially all of my research has been in the area of science, technology, and public policy. This includes the impact of science and technology on international politics and economics, the policy issues raised by the confluence of ethics, economics, and technology in medical practice, the technical and political aspects of environmental protection, and the public support of science and technology.

Selected Publications

The American Research University: Time for Some Course Corrections, in *University in Transition*, p.49, Editors, Muller-Boling, Detlef et al, Gutersloh: Bertlesmann Foundation Publishers (1998).

The Effects of Information Technology on the Role and Authority of Government, Washington, D.C., National Research Council Report (1997).

Exporting U.S. High Tech: Facts and Fiction About the Globalization of Industrial R&D (with B. Callan and S. Costigan), New York: Council on Foreign Relations (1997).

Unpackaging the Environment, *World Policy J.* 13, 11 (1996).

New Challenges for Global Technology: The Role of Government and Private Sectors, in *Proceedings of International Symposium III, Europe-United States*, p.174, Sophia-Antipolis, France; Paris: Conference des Grandes Ecoles (1996).

Issues in the Development and Adoption of Technology in Medicine, *Chemtech* 25, 7 (1995).