Electron Transfer in Chemical, Biological, and Electrochemical Systems, an Overview

R. A. Marcus

California Institute of Technology
127-72 Caltech, Pasadena, CA 91125

The field of electron transfer now incorporates many areas, reflected in the recent multi–volume work edited by Balzani. In this lecture we survey some recent studies and the widespread applicability of certain ideas to electron transfer and group transfer (methyl , H-, and H^-–transfer). We also describe some recent studies in our group, including that by Yi Qin Gao on directionality of electron transfer in a small supermolecule and that by Yi Qin Gao and Shachi Gosavi on electron transfer at semiconductor and metal interfaces. The research was supported by ONR and NSF.

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Presenting Author:
Marcus, R. A.
California Institute of Technology

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Complete Author List:

R. A. Marcus
Phone: 626-395-6566
Fax: 626-792-8485
E-Mail: ram@caltech.edu

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