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Science and the Media

PETER FARAGO. Analyzing the technical, social, and economic challenges which must be met in order to improve the flow of scientific information toward the general public, this study asks for a change in some of our social attitudes toward the ideas and embodiments of science, and for the acceptance of science as an outstanding part of our cultural heritage. (Science and Engineering Policy Series) 1976 104 pp. \$8.75

Light-Emitting Diodes

A. A. BERGH, Bell Laboratories; and **P. J. DEAN.** After surveying the basic concepts of photometry and human vision, the authors discuss the electrical properties of p-n junctions, the theory and practice of light generation in crystalline solids, the preparatory technology and engineering design of light-emitting diodes, and current applications with some emphasis on the telecommunications industry. (Monographs in Electrical and Electronic Engineering) 1976 600 pp.; 239 figs. \$55.00

Function and Evolution in Behaviour

Essays in Honour of Professor Niko Tinbergen, F.R.S. Edited by **GERARD BAERENDS;** **COLIN BEER,** Rutgers State University, Newark; and **AUBREY MANNING.** In this volume a number of well-known ethologists pay tribute to Professor Tinbergen, one of the founders of the science of ethology and a recent winner of the Nobel Prize for Physiology. The contributors, all former pupils or associates of his, discuss behavioral studies in a wide range of different species.

1976 428 pp.; 8 plates; 54 figs.; 26 tables \$41.00

Problems and Solutions in Logic Design

D. ZISSOS; with contributions by **F. G. DUNCAN.** The author makes simple and reliable logic design techniques available to those with no specialist mathematical or engineering knowledge. Beginning with basic design concepts, the book proceeds to unclocked and clocked sequential circuits, counters, and combinational circuits. Emphasis throughout is on optimal designs.

1976 156 pp.; 107 figs. cloth \$8.75 paper \$4.95

Prices are subject to change.

pighi's correspondence was exchanged. The exchanges with Giovanni Borelli, Malpighi's mentor in Pisa, and with Lorenzo Bellini are capital documents for the history of anatomy, physiology, and institutional developments in science in Italy. Bellini, passionate and ironic and Malpighi's lifelong friend, was an early and unrelenting advocate of the mathematicomechanical interpretation of vital processes in the manner of the Galileans.

The subjects discussed in the correspondence are prodigiously varied. Murder and civil disorder in Bologna, plant anatomy, publication arrangements, the battle between ancients and moderns, numerous details of animal structure, curricular reform, medical advice (Malpighi was a much-consulted authority), the unwelcome demands of one's scientific patrons, exchange of books across Europe—all find a place in these five volumes.

This *Correspondence* thus constitutes an archival resource of the first order. Viewing this work together with his magnificent study of Malpighi's scientific endeavors (*Marcello Malpighi and the Evolution of Embryology*; 5 volumes, Cornell University Press, 1966), we easily discern the magnitude of Adelman's contribution to our access to and understanding of medicine and, above all, anatomy during an epoch of revolutionary intellectual change, the later 17th century. It is a major scholarly achievement.

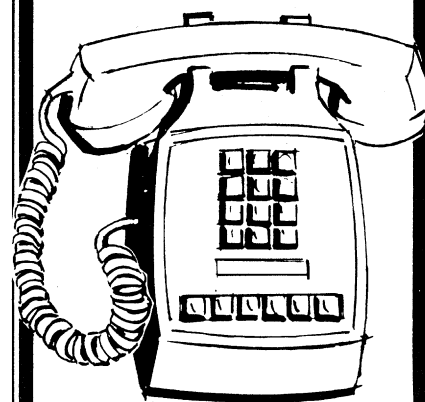
WILLIAM COLEMAN

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Struggles of Natural History

The Letters of Jan Swammerdam to Melchisedec Thévenot. With English translation and a biographical sketch by G. A. LINDEBOOM. Swets and Zeitlinger, Amsterdam, 1975. x, 190 pp. + plates. Dfl. 80.

Jan Swammerdam's correspondence with his French patron Melchisedec Thévenot was used by Boerhaave in his biographical introduction to the *Biblia Naturae* (1737–38); the letters then passed through the hands of Wouter van Doeveren to Göttingen University Library, where they remained unnoticed and forgotten for two centuries. For each of these letters G. A. Lindeboom has now provided a summary, a transcription of the Göttingen manuscript, and an English translation. Lindeboom has also written an introductory biographical



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sketch and a number of shorter notes on 17th-century figures. All the editorial material is in English. For those who do not read Dutch this book will (though the English is stilted) be a very welcome primary source for information about science and scientists in Holland's golden age. Certainly no student of the 17th century can read with indifference the names of patrons, acquaintances, and friends mentioned in this volume: Elzevier, de Graaf, Huyghens, Leeuwenhoek, Malebranche, Cosimo de Medici, Ruysch, Steno, and Tulp.

And, of course, Thévenot. Melchisedec Thévenot, a wealthy French diplomat with an interest in letters and science, received a circle of scholars and scientists at his home in Paris during the 1660's. Foreigners were welcome. Thévenot's Dutch visitors included Huyghens, de Graaf, and Swammerdam. Eventually the worldly Thévenot became the most reliable ally and patron of the shy and moody Swammerdam.

Young Swammerdam had trained as a doctor, but felt no inclination toward practice. He was drawn to anatomy, insects, and all curious experiments—commendable interests, but not, as his father reminded him, a profession at which one could make a living. The letters to Thévenot over a period of 15 years record Swammerdam's incredible efforts in the face of family and financial pressure: work on the spinal medulla, injections of human uterine vessels, a treatise on respiration, the famous history of insects, discovery of seeds in ferns, and so on and on, all first-rate work on the frontiers of natural history.

But the tale told in this book is only incidentally biographical. The real subject is a new science's search for institutional recognition and support. The study of nature as conceived by Swammerdam, Leeuwenhoek, and Boerhaave had asserted its independence from routine medical education, on the one hand and, on the other, from aimless speculation in natural curiosities. Unfortunately, to be outside the limits of science as perceived by contemporaries was to be outside the limits of support as well. "Ruysch," Swammerdam writes, "has founded an anatomy room and shows it for money." These letters are full of similarly grim financial details. Here is one of the neglected opening chapters in an almost unknown story, the professionalization of natural history.

JAMES L. LARSON

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LILLY ON DOLPHINS

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