

A WORD ABOUT THE AUTHORS

M. Capek is Professor (emeritus) at Boston University. He studied philosophy (Prague and Paris) and physics (Chicago). He is the author of many works, including *The Impact of Contemporary Physics* (1961) and *Bergson and Modern Physics* (1971). He is now associated to the University of Delaware.

Gale E. Christianson is Professor in the History of Science and Biography at Indiana State University (U.S.A.), and Distinguished Professor of the College of Arts and Sciences of his University. He is the author of a biography of Newton, *In the Presence of the Creator: Isaac Newton and his Time*. Forthcoming is *Fox at the Wood's Edge: A Life of Loren Eiseley*.

I. Bernard Cohen is Victor S. Thomas (Emeritus) Professor in the History of Science at Harvard University. He served as President of the International Union of the History and Philosophy of Science. He is the author of many works about the history of modern Physical Science, most notably, his *Introduction to Newton's Principia*. Currently he is preparing a new English translation of the *Principia*.

Guy Debrock is Professor in the Philosophy of Nature at the Catholic University of Nijmegen. He is the Editor of the Nijmegen Studies in the Philosophy of Nature and its Sciences. He is currently preparing the publication of a book on C.S. Peirce.

Ed Dellian is a practicing lawyer who also studied Physics, Philosophy and the History of Science. He is the author of several publications on Newton. His translation of Newton's *Principia* is currently in Press under the title *Mathematische Grundlagen der Naturphilosophie* (Felix Meiner). He is also the author of *Playdoyer for Isaac Newton* (Forthcoming).

Dennis Dieks is associate professor in the foundations of science in the Department of History and Foundations of Science at the State University of Utrecht. His main publications are in the field of the foundations of physics.

B.J.T. Dobbs is Professor in the Department of History at Northwestern University (U.S.A.). She is well known for her many publications on Newton's alchemy. She is the author of *The Foundations of Newton's Alchemy, or "The Hunting of the Greene Lyon."*

Arthur Donovan, an historian of science and technology, is currently Professor at the U.S. Merchant Marine Academy, Kings Point, New York, where he is Head of the Department of Humanities. He is the author of *Philosophical Chemistry in the Scottish Enlightenment* and other studies of science and engineering in the modern era.

Antonino Drago is Associate Professor in the History of Physics at the University of Naples (Italy). He has published in the areas of the Theory of Automata, Peace Research, the History of Classical Physics, the History of Mathematics and the Philosophy of Science.

Mordechai Feingold is Professor in History and the History of Science at Boston University (U.S.A.). He is the author of *The Mathematicians' Apprenticeship: Science, Universities and Society in England: 1560-1640* (Cambridge U. Press). Forthcoming from the same Publishers is *The Life and Works of Isaac Barrow*.

Peter Fong is professor of Physics at Emory University, Atlanta, Georgia (U.S.A.). He is the author of six books (including the forthcoming *East of Eden: the Evolution of Man and Humanity*) and about one hundred publications in nuclear physics, astrophysics, thermodynamics, quantum mechanics, molecular biology, geophysical sciences, philosophy, history and social studies.

Alexandru Giuculescu studied mathematics, philosophy, linguistics and law in Bucharest. He is Professor of mathematics in Bucharest as well as a member of the staff of the Academy of the Socialist Republic of Romania. He did research in Paris and Bonn. He published on the philosophy and history of science.

Barry Gower is lecturer in the Philosophy of Science at Durham University, England. He has published studies of probabilistic reasoning in the physical sciences in *Annals of Science* and in *Studies in the History and Philosophy of Science*.

Willem D. Hackmann is the assistant Curator of the Museum of the History of Science at the University of Oxford. His interests include eighteenth- and early nineteenth-century physics, the interaction between instrumentation, experimentation, and scientific theory, and the diffusion of science between England and Holland. He is the author of *Electricity from Glass: the Development of the Frictional Electrical Machine 1600-1850* (1978), *Seek & Strike: Sonar, Anti-Submarine Warfare and the Royal Navy 1914-1954* (1984), and of the exhibition catalogue *Apples to Atoms, Portraits of Scientists from Newton to Rutherford* (1986).

Casper Hakfoort is a member of the History Department in the School of Philosophy and Social Sciences of the University of Twente (The Netherlands). He is the author of a book on the development of optics from Newton to Euler (1986). His present research concerns the shift from classical to modern physics as well as the history of industrial science. (Address: Universiteit Twente, Vakgroep Geschiedenis, Vrijhof, Postbus 217, 7500 AE Enschede, The Netherlands)

W.J. Hornix is lecturer in the history of chemistry at the Catholic University (Nijmegen, Holland). He has published several articles on the foundations of thermodynamics and the history of science (particularly thermodynamics and organic chemistry). He directed a research project on the history of the dyestuff industry. His publications pertain to the fields of the foundations of thermodynamics, the history of thermodynamics and of organic chemistry. He directed a research project in the history of dyestuff industry.

Peter Kroes (1950) studied physics and philosophy; he is lecturer in the philosophy of science. His major publications are: *Time: its Structure and Role in Physical Theories* (1985) and *Filosofie van de Natuurkunde* (1987). He also published several articles on the philosophy of physics.

H.H. Kubbinga is lecturer in philosophy at the University of Groningen (The Netherlands). He was recently awarded a research fellowship by the Royal Dutch Academy of Sciences. His Ph.D. thesis (É.H.É.S.S., Paris, 1983) concerned the history of the concept of "molecule" until the end of 18th century. He prepares a monograph on the history of the concept of molecule (until ca. 1925).

F.H. van Lunteren is instructor at the Institute for the History of Natural Science of the University of Utrecht (The Netherlands). He is currently preparing a work on gravitational theories in the 19th century.

Richard H. Popkin is Professor (emeritus) of Washington University (U.S.A.). He is co-director of the International Archives of the History of Ideas. He is the author of many works on the History of Ideas, and in particular of a *History of Scepticism*. He has a particular interest for Newton's theological writings.

Andries Sarlemijn (1938) studied social sciences (sovietology, economics), logic and philosophy in Fribourg (Switzerland). Since 1971 he teaches logic, method and the history of science at the Technical University of Eindhoven (The Netherlands). He published several books and articles on the history of science and technology.

Paul B. Scheurer, is Professor (Emeritus) at the Catholic University of Nijmegen (The Netherlands) and lectures at the University of Geneva in Philosophy and the History of Natural Science. His main interest concerns the discursive revolution and the structural derevolution of physical theories, especially Relativity and Quantum Physics, as well as the Critical History of the representations of motion. He is the author of *Révolutions de la science et permanence du réel* (P.U.F.) and of *De l'homme, de la mesure et du temps* (Forthcoming).

G. Verstraeten was trained in both physics and philosophy. His doctoral dissertation in physics concerned second order phase transitions. His philosophical research focuses upon the complementarity of mechanics and thermodynamics. At the present time he is Senior Lecturer at the University of Malawi (Africa)

*Ewald Vervae*t is physicist and psychologist. He is an associate of Foundations Histos, an institution which propagates research in the field of the development of Insight. His research concerns gravitation, the Freudian unconscious etc. He is supervisor of a research-group involved in the study of psychotherapeutical processes, and he lectures in psychology. He is the author of a dissertation on "Structuralist explorations into Epistemology and Personology" (in Dutch).

Teresa Grabińska and Miroslaw Zabierowski are assistant professors at the Technical University of Wrocław. They share an interest in particle physics, cosmology, astronomy, the methodology of exact sciences, and the philosophy of physics.

They developed appropriate methods for studying the intergalactic matter /JPII region and JPS phenomenon/. They were early advocates of teaching pragmatic logic and the logic of scientific discovery at technological institutes.