

Advisors and Contributors

While compiling this volume, the editors relied upon the expertise and contributions of the following scientists, scholars, and researchers, who served as advisors and/or contributors for *Scientific Thought: In Context*.

Andrew Aberdein

Associate Professor

Florida Institute of Technology
Melbourne, Florida

Hanne Andersen

Associate Professor and Scholar

University of Aarhus
Aarhus, Denmark

Wilbur Applebaum

*Professor Emeritus, Department
of Humanities*

Illinois Institute of Technology
Chicago, Illinois

William Arthur Atkins

Independent Scholar and Writer

Normal, Illinois

Ari Belenkiy

Mathematics Department

Bar-Ilan University
Ramat Gan, Israel

Julie Berwald

*Geologist (Ocean Sciences)
and Writer*

Austin, Texas

John Burnham

Research Professor of History

Scholar in Residence, Medical
Heritage Center

Ohio State University
Columbus, Ohio

William E. Burns

Independent Scholar

Washington, D.C.

Tamara E. Caraballo

*Snohomish High School, Science
Department*

Snohomish, Washington

Philip Chaney, Ph.D., P.S.

Associate Professor, Geography

Auburn University
Auburn, Alabama

David F. Channell

Professor of Historical Studies

School of Arts & Humanities
University of Texas at Dallas
Dallas, Texas

Dennis W. Cheek

Vice President of Education

Ewing Marion Kauffman
Foundation
Kansas City, Missouri

James Anthony Charles Corbett

Journalist

London, United Kingdom

Brian Dolan

*Professor, History of Science
and Medicine*

University of California, San
Francisco
San Francisco, California

Andrew Ede

*Assistant Professor, History
and Classics*

University of Alberta
Edmonton, Alberta, Canada

Antonio Farina

*Associate Professor,
Embryology, Obstetrics,
and Gynecology*

University of Bologna
Bologna, Italy

Katrina Ford

*Graduate Student, University
of Auckland*

Auckland, New Zealand

Larry Gilman

Electrical Engineer and Author

Independent Scholar and Writer
Sharon, Vermont

Amit Gupta

*Independent Scholar
and Journalist*

Ahmedabad, India

William Hagan

Associate Professor of Chemistry
College of St. Rose
Albany, New York

Robert A. Hatch

*Interim Director, Center
for the Humanities*
Department of History
University of Florida
Gainesville, Florida

Tony Hawas

Writer and Journalist
Brisbane, Australia

Hal Hellman

*Independent Scholar
and Author*
Leonia, New Jersey

Matthew H. Hersch, J.D.

William Penn Fellow
History and Sociology of Science
University of Pennsylvania
Philadelphia, Pennsylvania

Brian D. Hoyle

Microbiologist and Author
Nova Scotia, Canada

Daniel Hudon

Lecturer in Physics
Boston University
Boston, Massachusetts

Alexandr Ioffe

Senior Scientist
Geological Institute, Russian
Academy of Sciences
Moscow, Russia

David T. King, Jr.

Professor, Department of Geology
Auburn University
Auburn, Alabama

Noretta Koertge

*Professor Emeritus, History
and Philosophy of Science*
Indiana University
Bloomington, Indiana

Kenneth T. LaPensee

*Epidemiologist and Medical
Policy Specialist*
Hampton, New Jersey

Christopher Lawrence

*Professor, Wellcome Trust
Centre for the History of
Medicine*
University College London
London, United Kingdom

**Adrienne Wilmoth Lerner,
J.D.**

Independent Research Scholar
Jacksonville, Florida

Eric v.d. Luft

*Lecturer, Center for Bioethics
and Humanities*
SUNY Upstate Medical University
Syracuse, New York

Lois N. Magner

Professor Emerita of History
Purdue University
West Lafayette, Indiana

David L. Morgan,

Assistant Professor, Physics
Eugene Lang College
The New School
New York, New York

Miriam C. Nagel

Independent Scholar
Avon, Connecticut

Lewis Pyenson

*Membre Correspondant,
Académie Internationale
d'Histoire des Sciences (Paris)*
Research Professor, History, Center
for Louisiana Studies
University of Louisiana at Lafayette
Lafayette, Louisiana

Nicholas D. Pyenson

*Department of Integrative Biology
and Museum of Paleontology*
University of California, Berkeley

Giuseppina Ronzitti

Archives Henri Poincaré
Laboratoire de Philosophie et
d'Histoire des Sciences
Nancy, France

Anna Marie Eleanor Roos

*Research Associate, Wellcome
Unit for the History of
Medicine*
Oxford, United Kingdom

Gina Rumore

*Graduate Student, History
of Science and Technology*
University of Minnesota
Twin Cities, Minnesota

Concepcion Saenz-Cambra

Fulbright Research Scholar
Department of History
University of California
Santa Barbara, California

Martin Saltzman

Professor
Providence College
Providence, Rhode Island

James Satter

Independent Scholar
Minneapolis, Minnesota

Joachim Schummer

*Editor, HYLE: International
Journal for Philosophy of
Chemistry*
Heisenberg Fellow, Department
of Philosophy
University of Darmstadt, Germany

Angela Scobey

Independent Scholar
Mobile, Alabama

Sameer Shah

Graduate Student, UCLA
Los Angeles, California

Robert W. Smith

Professor, University of Alberta
Edmonton, Alberta, Canada

Matthew Stanley

*Institute for Advanced Study,
School of Historical Studies*
Princeton University
Princeton, New Jersey

Constance K. Stein

*Director of Cytogenetics/
Associate Professor*
SUNY Upstate Medical
University
Syracuse, New York

Florian Steger

*Institut fuer Geschichte und
Ethik der Medizin*
Friedrich-Alexander-Universität
Erlangen-Nuemberg, Germany

David J. Sturdy

Professor, School of History
University of Ulster, Coleraine
Coleraine, North Ireland, United
Kingdom

Edna Suárez

*Professor, National University
of México*
Visiting Scholar, Max Planck
Institute for the History of
Science
Berlin, Germany

Todd Timmons

Faculty Senate Chair

Associate Professor, Mathematics
and History of Science
University of Arkansas, Fort Smith
Fort Smith, Arkansas

Alain Touwaide

Historian of Science
Smithsonian Institution
Washington, D.C.

A. Bowdoin Van Riper

*Adjunct Professor, Social and
International Studies*
Southern Polytechnic State
University
Marietta, Georgia

Marco A. Viniegra Fernandez

*Graduate Student, History
of Science*
Harvard University
Cambridge, Massachusetts

Gary Weisel

*Associate Professor of
Physics*
Pennsylvania State University
Altoona, Pennsylvania

Melanie Barton Zoltán

Independent Scholar
Amherst, Massachusetts

Acknowledgments

The editors are grateful to the truly global group of distinguished scholars, researchers, and writers who contributed to *Scientific Thought: In Context*.

The editors also wish to thank the primary copy-editor, Amy Loerch, whose keen eyes and sound judgments greatly enhanced the quality and readability of the text.

The editors gratefully acknowledge and extend thanks to Janet Witalec and Julia Furtaw at Gale Cengage for their enduring faith in the project and for their sound content advice and flexibility. Without the able guidance and efforts of talented teams in rights and ac-

quisition management and imaging at Gale, this book would not have been possible. We also thank Debra Kirby and her entire team of talented editors for their invaluable help in correcting copy. The editors also wish to acknowledge the contributions of Marcia Schiff at the Associated Press for her help in securing archival images.

Deep, sincere, and enduring gratitude is due project manager Elizabeth Manar who, over the years it took to write this book, showed nearly infinite patience. Especially during the rougher patches, when we mutually faced seemingly insurmountable obstacles, her intelligence, skill, passion for excellence, astute editing, and humanity were nothing short of inspirational.