

Contributors

Andrew Robinson (editor), a King's Scholar of Eton College and a visiting fellow of Wolfson College, Cambridge, from 2006 to 2010, was literary editor of *The Times Higher Education Supplement* in London from 1994 to 2006. He is the author of some twenty-five books in the arts and sciences published by trade and academic publishers, which have been translated into ten languages. They include *The Man Who Deciphered Linear B: The Story of Michael Ventris* (Thames & Hudson, 2002); *Sudden Genius? The Gradual Path to Creative Breakthroughs*, a study of exceptional creativity in the arts and sciences (Oxford University Press, 2010); and *Genius: A Very Short Introduction* (Oxford University Press, 2011); for *Sudden Genius?* he received a research grant from the John Templeton Foundation. His latest books are *Cracking the Egyptian Code: The Revolutionary Life of Jean-François Champollion* (Thames & Hudson / Oxford University Press, 2012), and an edited collection, *The Scientists: An Epic of Discovery* (Thames & Hudson, 2012), with contributions from scientists, historians of science, and science writers. He reviews books for *The Lancet*, *Nature*, *New Scientist*, and *Science*.

Philip W. Anderson is Joseph Henry Professor of Physics Emeritus at Princeton University. He shared the 1977 Nobel Prize in physics for research undertaken at Bell Laboratories. His latest book is the collection *More and Different: Notes from a Thoughtful Curmudgeon* (World Scientific, 2011). In 2006 he was calculated to have the world's highest

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“creativity index” among physicists, based on professional citation of his publications.

David P. Billington is Gordon Y. S. Wu Professor of Engineering Emeritus at Princeton University. His many books include *Power, Speed and Form: Engineers and the Making of the Twentieth Century* (Princeton University Press, 2006), written with David P. Billington Jr.

David P. Billington Jr. is an independent scholar who writes on the history of modern engineering innovation.

Baruch S. Blumberg, who died in 2011, shared the 1976 Nobel Prize in physiology or medicine for the discovery of the Hepatitis B virus and the invention of the vaccine that prevents Hepatitis B infection. A Distinguished Scientist at the Fox Chase Cancer Center in Philadelphia, and University Professor of Medicine and Anthropology at the University of Pennsylvania, he was the founding director of the NASA Astrobiology Institute at the Ames Research Center in Moffett Field, California. Blumberg was the author of some 450 scientific papers, his books include *Hepatitis B: The Hunt for a Killer* (Princeton University Press, 2002).

Timothy F. Bresnahan is Landau Professor in Technology and the Economy at Stanford University. His books include *Building High-Tech Clusters: Silicon Valley and Beyond* (Cambridge University Press, 2004), edited with Alfonso Gambardella.

Freeman Dyson is professor of physics emeritus at the Institute for Advanced Study in Princeton, and is well known for his contribution to quantum electrodynamics. In 2000 he was awarded the Templeton Prize. A celebrated writer on science for journals, magazines, and newspapers, he has written many books including *Disturbing the Universe* (Boosey and Hawkes, 1979), *Infinite in All Directions* (HarperCol-

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lins, 1988), *Imagined Worlds* (Harvard University Press, 1997), and *The Scientist as Rebel* (New York Review of Books, 2006).

George Dyson is a historian of technology whose publications include *Baidarka* (1986) on the development (and redevelopment) of the Aleut kayak, *Darwin among the Machines* (Penguin, 1997) on the evolution of digital computing and telecommunications, and *Project Orion* (Henry Holt, 2002) on a path not taken into space. His latest book is *Turing's Cathedral: The Origins of the Digital Universe* (Pantheon, 2012).

David M. Gear is a research specialist in history and the social sciences at the University of Wisconsin, Madison. He conducts research on major discoveries, scientists, research organizations, and creativity in science.

Susan Hackwood was a department head at Bell Laboratories before moving to California, where she is a professor of electrical engineering at the University of California, Riverside. She is also executive director of the California Council on Science and Technology, a nonprofit corporation sponsored by California's major academic institutions.

Jonathan Hey researched the traits of successful creative teams and interdisciplinary research for a PhD dissertation at the University of California, Berkeley. He has worked on both the people and technical sides of innovation in the United States and Europe and now works as a user experience designer in London.

Tony (A. J. G.) Hey received his DPhil in theoretical physics from Oxford University in 1970 before pursuing research as a postdoctoral fellow with the Nobel laureates Murray Gell-Mann and Richard Feynman at the California Institute of Technology. Formerly professor of computation at Southampton University, he is now a vice president at Microsoft Research, where he is responsible for building partner-

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ships with the academic community. His latest book is *The Computing Universe: How Computer Science Is Changing the World* (Cambridge University Press, 2013), written with Juri Papay.

J. Rogers Hollingsworth is professor of history and sociology emeritus at the University of Wisconsin, Madison, and a senior scholar at the Kauffman Foundation. Since 2002 he has been a visiting scholar at the University of California, San Diego, in an institute of the physics department. He has published extensively on the relationship between innovation and institutions in the United States and Europe. His most recent book (with Ellen Jane Hollingsworth) is *Major Discoveries, Creativity, and the Dynamics of Science* (Edition echoraum, 2011).

Gino Segrè is professor of physics and astronomy emeritus at the University of Pennsylvania. He is the author of *A Matter of Degrees: What Temperature Reveals about the Past and Future of Our Species, Planet and Universe* (Viking, 2002); *Faust in Copenhagen: A Struggle for the Soul of Physics* (Viking, 2007), an account of a famous conference of physicists at Niels Bohr's Institute for Theoretical Physics in 1932; and *Ordinary Geniuses: Max Delbrück, George Gamow, and the Origins of Genomics and Big Bang Cosmology* (Viking, 2011). He is a nephew of the physics Nobel Prize–winner Emilio Segrè, who worked with Enrico Fermi.

Joshua Silver is an experimental atomic physicist from Oxford University, where his positions have included professor of physics and fellow and tutor in physics at New College, Oxford. In the early 1980s he became interested in adaptive optics and vision. He invented a new technology that has the potential to bring inexpensive eyeglasses to billions of people in the developing world who currently have little or no access to eye-care professionals.