



# Beyond Sputnik: U.S. Science Policy in the 21st Century

By Homer Alfred Neal, Tobin Smith, Jennifer McCormick

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Science and technology are responsible for almost every advance in our modern quality of life. Yet science isn't just about laboratories, telescopes and particle accelerators. Public policy exerts a huge impact on how the scientific community conducts its work. *Beyond Sputnik* is a comprehensive survey of the field for use as an introductory textbook in courses and a reference guide for legislators, scientists, journalists, and advocates seeking to understand the science policy-making process. Detailed case studies---on topics from cloning and stem cell research to homeland security and science education---offer readers the opportunity to study real instances of policymaking at work. Authors and experts Homer A. Neal, Tobin L. Smith, and Jennifer B. McCormick propose practical ways to implement sound public policy in science and technology and highlight how these policies will guide the results of scientific discovery for years to come.

Homer A. Neal is the Samuel A. Goudsmit Distinguished University Professor of Physics, Interim President Emeritus, and Vice President for Research Emeritus at the University of Michigan, and is a former member of the U.S. National Science Board.

Tobin L. Smith is Associate Vice President for Federal Relations at the Association of American Universities. He was formerly Assistant Director of the University of Michigan and MIT Washington, DC, offices.

Jennifer B. McCormick is an Assistant Professor of Biomedical Ethics in the Division of General Internal Medicine at the Mayo College of Medicine in Rochester, Minnesota, and is the Associate Director of the Research Ethics Resource, part of the Mayo Clinic's NIH Clinical Translational Science Award research programs.

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*"Beyond Sputnik* is a readable, concise, yet remarkably comprehensive introduction to contemporary science policy. It is devoid of 'wonkishness' yet serves the needs of policymakers and students alike. Because science and technology policy is of central importance in the twenty-first century this accessible volume is a godsend."

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"This highly researched book is a treasure trove for anyone concerned with science policy relating to such challenges as providing energy, preserving the environment, assuring healthcare, creating jobs, and more."

---Norman Augustine, retired Chairman and CEO of Lockheed Martin Corporation and recipient of the 2008 Vannevar Bush Award from the National Science Board

"Science policy is a subject of growing importance in the United States, yet there has long been a vacuum among textbooks in the field. *Beyond Sputnik* fills it splendidly and will be greeted with enthusiasm by students and faculty alike. Even those who have practiced the art for years will learn from it."

---Albert Teich, Director of Science and Policy Programs at the American Association for the Advancement of Science

"Homer A. Neal, Tobin L. Smith, and Jennifer B. McCormick have written a landmark work calling for a national effort to restore our nation's power in the fields of science, energy, and education, as we did in the remarkable year following Sputnik. The next president should read *Beyond Sputnik* and accept this call to action as did President Eisenhower."

---Ambassador David M. Abshire, President of the Center for the Study of the Presidency, Cofounder and Vice Chairman of the Center for Strategic and International Studies, and President of the Richard Lounsbery Foundation

"At last we have a text that tells the story from where A. Hunter Dupree left off; an excellent core text for courses in science and technology policy, DC policymakers, and anyone who needs to get up to speed in the field . . . The book that we have all been waiting for."

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### **About the Author**

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