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# Big Science Competition

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# Big Science

**Derek John de Solla Price**



## **Big Science:**

Supersizing Science Niki Vermeulen, 2010 In recent years there has been a clear rise in scientific collaboration as well as in studies on the subject While most scholars examine disciplines traditionally known to be collaborative such as physics and space research this book focuses on biology It investigates the growing collaboration in the life sciences or the emergence of what is called big biology While the Human Genome Project is often presented as the first large scale research project in biology cooperation in the life sciences has a longer history A comparison between centralised big physics and big biology reveals how the latter has a networked structure which evolved in interaction with the integration of information and communication technologies By concentrating on the construction of these networks three contemporary large scale research collaborations are analysed the Census of Marine Life that aims to make an inventory of life in the oceans the Silicon Cell initiative that wants to design a replica of a cell in a computer and the VIRGO consortium which investigates host virus interaction to develop a new therapy against influenza This book demonstrates how the process of making science bigger or the supersizing of science transforms the ways in which science is organised while it also changes the work of scientists involved As such this has both scholarly and professional implications for the next generation of scientists

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn *Create a Commission on Science and Technology* United States. Congress. Senate. Committee on Government Operations, 1962 To See the Unseen Andrew J. Butrica, 1996 A comprehensive illuminating history of this little understood but surprisingly significant scientific activity Quite rigorous systematic in its methodology the book explores the development of the radar astronomy specialty in the larger community of scientists More than just discussing the development of this field however the author uses planetary radar astronomy as a vehicle for understanding larger issues relative to the planning execution of big science by the Fed government Sources interviews technical essay abbreviations index

**American Higher Education Transformed, 1940-2005** Wilson Smith, Thomas Bender, 2008-04-11 This long awaited sequel to Richard Hofstadter and Wilson Smith's classic anthology *American Higher Education A Documentary History* presents one hundred and seventy two key edited documents that record the transformation of higher education over the past sixty years The volume includes such seminal documents as Vannevar Bush's 1945 report to President Franklin D Roosevelt *Science the Endless Frontier* the U S Supreme Court decisions in *Brown v Board of Education* and *Sweezy v New Hampshire* and Adrienne Rich's challenging essay *Taking Women Students Seriously* The wide variety of readings underscores responses of higher education to a memorable often tumultuous half century Colleges and universities faced a

transformation of their educational goals institutional structures and curricula and admission policies the ethnic and economic composition of student bodies an expanding social and gender membership in the professoriate their growing allegiance to and dependence on federal and foundation financial aids and even the definitions and defenses of academic freedom Wilson Smith and Thomas Bender have assembled an essential reference for policymakers administrators and all those interested in the history and sociology of higher education

**Beyond Sputnik** Homer A. Neal, 2008 Horizon, 1973

*Reflections on Big Science* Alvin M. Weinberg, 1968 Alvin M Weinberg has played a key role in scientific developments of the 20th century In 1941 he joined the University of Chicago group that developed the first chain reactor As a member of this team he worked on the reactor that produced the plutonium that would ultimately be used for the bomb dropped on Nagasaki Japan He served as director of ORAU s Institute for Energy Analysis IEA which pioneered investigations of the greenhouse effect alternate energy sources and maximizing energy sources at minimum cost to the economy and the environment Throughout his career Weinberg has been a leading figure in the development of nuclear energy Among his accomplishments was the proposal to use pressurized water for nuclear submarine propulsion Weinberg has been recognized many times winning the Atoms for Peace Award the Harvey Prize the Heinrich Award and the Fermi Award He is a member of the National Academy of Sciences the National Academy of Engineering the American Academy of Arts and Sciences the American Philosophical Society and a Foreign Member of the Royal Netherlands Academy of Sciences In addition to his writings concerning scientific and administrative works he is also a prolific writer on the interaction between modern technology and society He has coined many phrases that have become part of our everyday language big science technological fix and Faustian bargain are just a few examples May of his earlier essays are published in this book *Reflections on Big Science* These essays treat a number of acute or chronic problems and many prescribe remedies Included are considerations of the population expansion and the concomitant expansion of energy and information the new social structures built by the new technology the effects of the organization and financing of Big Science on the nature of scientific inquiry the potential contribution of the federal laboratories to science education and the role of the scientist which is distinct from and as vital as the role of the documentalist is closing the Information Gap

**Yearbook of Science and the Future**, 1994

**Little Science, Big Science** Derek John de Solla Price, 1969 *Expertise and Democratic Decisionmaking* Library of Congress. Congressional Research Service, 1987

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