



# **Prometheus Bound**

**Science in a dynamic steady state**

**JOHN ZIMAN**



# Prometheus Bound Science In A Dynamic Steady State

**D. Wade Hands**



## **Prometheus Bound Science In A Dynamic Steady State:**

**Prometheus Bound** John M. Ziman,1994-03-25 After expanding for centuries science is reaching its limits to growth We can no longer afford the ever increasing cost of exploring ever wider research opportunities In the competition for resources science is becoming much more tightly organized A radical pervasive and permanent structural change is taking place This already affects the whole research system from everyday laboratory life to the national budget The scientific enterprise cannot avoid fundamental change but excessive managerial insistence on accountability evaluation priority setting etc can be very inhospitable to expertise innovation criticism and creativity Can the research system be reshaped without losing many features that have made science so productive This trenchant analysis of a deep rooted historical process does not assume any technical knowledge of the natural sciences or their history philosophy sociology or politics It is addressed to everybody who is concerned about the future of science and its place in society

## **Determinants of Productivity in Indian Science**

A. V. S. Kamesh,2010-04-16 This book is an organizational study of the social aspects of science in India focusing on the determinants of productivity of Indian scientists The book describes the factors of productivity levels of organic chemists in India in the context of transformation from academic science to post academic science and more so entrepreneurial science This book considers new factors such as communication technology as an enabling tool to enhance the productivity levels of scientists and indicates how the different access to the same could lead to reinforce social inequality in the sphere of Indian science The present empirical work is an outcome of a study of Indian scientists based on both quantitative and qualitative methods This book provides an estimation of the relative contribution of determinants of productivity of organic chemists across different levels of organization in the Indian context and examines their consequences upon the career pattern of scientists The findings of this study are policy oriented suggestions aimed at ensuring social equality among scientists in India

Handbook on Science and Public Policy Dagmar Simon,Stefan Kuhlmann,Julia Stamm,Weert Canzler,2019 This Handbook assembles state of the art insights into the co evolutionary and precarious relations between science and public policy Beyond this it also offers a fresh outlook on emerging challenges for science including technology and innovation in changing societies and related policy requirements as well as the challenges for public policy in view of science driven economic societal and cultural changes In short this book deals with science as a policy triggered project as well as public policy as a science driven venture

## **Unity of Knowledge (in Transdisciplinary Research for Sustainability) - Volume I**

Gertrude Hirsch Hardon,2008-12-31 Unity of Knowledge in Transdisciplinary Research for Sustainable Development theme is a component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Today there is a social need for a comprehensive unity of knowledge that would provide orientation and ensure action in the context of the complex problems of modern civilization Based on an intellectual need for unity of knowledge different concepts of unity of knowledge have emerged in the course of

the history of ideas The intellectual need for unity can be directed at the world science action or the individual It can involve the quest for the unity of the world based on a principle that is immanent in it the unity of science as a theoretical methodical or epistemological unity the unity of action as a correlation of scientific pragmatic and moral knowledge or finally unity as the educational task of the individual The concepts associated with unity of knowledge can go in two directions The first assumes that there is a unity existing in the world that can be perceived by man It is thought of as an order of being i e an ontological unity of the plurality of phenomena that consist in their common nature The other direction is based on the assumption that unity is a construction of a subject based on its cognitive principles and structures Thus it is not something that can be discovered as an existing objective order and is instead subjective These two volumes present some aspects of Unity of Knowledge in Transdisciplinary Research for Sustainable Development in three parts The purpose of the first part is to trace back the core ideas in transdisciplinary thinking in the history of western philosophy and science to locate socially the concerns of transdisciplinary research and to give an account of the development of transdisciplinary research The second group of chapters deals with methodological and management problems related to transdisciplinary research with regard to problem identification and structuring of research questions with knowledge integration in problem investigation as well as with evaluation An outline of the institutional measures and transformations to enable and support transdisciplinary research is given in the third part Institutional strategies build on organizational arrangements and links across academic institutions in education and research on networks between science and society for joint knowledge production in temporally limited settings of research programs or projects but they also set up new institutions such as centers for advanced studies national offices agencies and networks These two volumes are aimed at a wide spectrum of audiences University and College Students Educators Research Personnel and all those concerned with sustainable development

*The Death of Science* Andrew Holster, 2016-07-26 Modern science is in unprecedented crisis It is a crisis at many levels continuous with larger crises of modern society It is a crisis for the vocation of the scientist working within the modern institutionalised structures of science It is a crisis for our capacity to use science benevolently to help solve larger material organisational and ultimately political problems of the modern era And it is a crisis for philosophy for the role of natural science to help inform our world view The Death of Science is an account of deeper causes of this malaise It starts by taking up the reins of L pez Corredoira s 2013 The Twilight of the Scientific Age a recent critique that concludes with modern science on its death bed It dissects key themes in detail illustrated in the same frank style drawing on personal examples It starts with deep issues in the philosophy of science recounting failed modern concepts of scientific progress method and truth going on to failures of peer review and gate keeping as quality control systems the domination of propaganda and marketing channels as the critical tools for professional success and the major outcome for creative scientists themselves the destruction of scientific creativity and exclusion of heterodox thinkers in this degraded environment It connects the

behavioural symptoms with a psycho social analysis of the bureaucratic mode of organisation under which science like all other modern vocations is now subsumed The account supports Lopez Corredoira's appraisal which sees a modern science industry driven by greed and ambition repressing imagination and freedom destructive of novelty and diversity of ideas controlled by bureaucratic academic power hierarchies While science is irrevocably corrupted by its modern mass institutionalisation the true spirit of science can only be sustained by individuals with a real vocation as scientists or natural philosophers who seek understanding and meaning and wisdom rather than technocratic specialisation and careers But it is increasingly impossible for scientists to withstand forces of professional conformity and maintain their personal sense of value A number of current controversies in some core sciences are also discussed and it is argued that the greatest revelations of real science are yet to come While Establishment Science has locked itself into dogmatic paradigms the failures of present theories show that we are really on the cusp of major revolutions spanning sciences of physics and cosmology information and intelligence biology and evolution and mind and consciousness If these are realised they will profoundly change our understanding of the nature of the world and ourselves But any such revolutions challenge a Science Establishment locked into the self interest of its power brokers and are unlikely to occur except through independent scientists working outside the institutional system The book concludes with a brief discussion of the place of independent scientists

Reshaping the Graduate Education of Scientists and Engineers National Academy of Engineering, National Academy of Sciences, Policy and Global Affairs, Institute of Medicine, Committee on Science, Engineering, and Public Policy, 1995-06-25 Are we producing too many PhDs Does the current graduate education system adequately prepare science and engineering students for today's marketplace How do foreign students enter the picture What should be the PhD of the future These and other questions are addressed in this book by a blue ribbon panel of scientists and engineers Recommendations are aimed at creating a new PhD that would retain the existing strengths of the current system while substantially increasing the information available the potential versatility of students and the career options afforded to them by their PhD education

*Social Studies of Science and Technology: Looking Back, Ahead* B. Joerges, H. Nowotny, 2003-09-30 This volume brings together contributions that resemble spotlights thrown on the past twenty five years of science and technology studies It covers a broad range history of science science and politics science and contemporary democracy science and the public science and the constitution science and metaphors and science and modernity and provides a critical overview of how the field of science and technology studies has emerged and developed

*Beyond the Science Wars* Ullica Christina Olofsdotter Segerstråle, Ullica Segerstråle, 2000-08-03 Contextualizes the Science Wars from interdisciplinary sociological historical scientific political and cultural perspectives

**Transdisciplinarity: Joint Problem Solving among Science, Technology, and Society** J. Thompson Klein, W. Grossenbacher-Mansuy, R. Häberli, A. Bill, R.W. Scholz, M. Welti, 2012-12-06 What kind of science do we need today and tomorrow In a game that knows no boundaries a

game that contaminates science democracy and the market economy how can we distinguish true needs from simple of fashion How can we distinguish between necessity and fancy whims How can we differentiate conviction from opinion What is the meaning of this all Where is the civilizing project Where is the universal outlook of the minds that might be capable of counteracting the global reach of the market Where is the common ground that links each of us to the other We need the kind of science that can live up to this need for universality the kind of science that can answer these questions We need a new kind of knowledge a new awareness that can bring about the creative destruction of certainties Old ideas dogmas and out dated paradigms must be destroyed in order to build new knowledge of a type that is more socially robust more scientifically reliable stable and above all better able to express our needs values and dreams What is more this new kind of knowledge which will be challenged in turn by ideas yet to come will prove its true worth by demonstrating its capacity to dialogue with these ideas and grow with them

**The American Academic Profession** Stephen Steinberg, 2017-11-30 This book covers well the issues and problems of the U S academic profession in the second half of the twentieth century

Contemporary Science The tale of the American academic profession that large company of men and women unprecedented in its size and diversity needs to be written A large historical literature on America s colleges and universities exists but much of it is unashamedly hagiographic On the other hand more critical works see American universities as being in dire need of massive reform This charge is not sustained by the contributors to *The American Academic Profession* who hope to shatter the code of silence that passes for discretion by focusing on the forces that have conspired to create the American academic profession Graubard includes contributions from important scholars around the world How the Academic Profession is Changing by Arthur Levine Small Worlds Different Worlds The Uniqueness and Troubles of American Academic Professions by Burton R Clark The Elusive Academic Profession Complexity and Change by Francis Oakley Uncertainties in the Changing Academic Profession by Walter E Massey Stewards of Opportunity America s Public Community Colleges by Patrick M Callan Public Universities as Academic Workplaces by Patricia J Gumpert Survival of the Fittest Postgraduate Education and the Professoriate at the Fin de Sicle by R M Douglas Reflections on the Culture Wars by Eugene Goodheart A Blow Is Like an Instrument by Charles Bernstein The Science Wars and the Future of the American Academic Profession by Jay A Labinger The Scientist as Academic by Cheryl B Leggon The Place of Knowledge in the American Academic Profession by Sheldon Rothblatt Border Crossings Organizational Boundaries and Challenges to the American Professoriate by Theodore R Mitchell The Development of Information Technology in American Higher Education by Martin Trow and An International Academic Crisis The American Professoriate in Comparative Perspective by Philip G Altbach The American Academic Profession is not sanguine about what is currently happening in higher education or what it imagines the future portends It simply asks the question Can a society truly understand its universities and colleges when it has moved too quickly from uncritical admiration to uniformed and ungenerous complaint This volume intends to dispel some long persistent myths in

favor of objective truth It is a must for anyone interested in academic problems for those who work in higher education and for everyone interested in American ideas traditions and social and intellectual history Stephen R Graubard is editor of the American Academy of Arts and Sciences and its journal Daedalus and professor of history emeritus at Brown University

**International Encyclopedia of Education** ,2009-04-17 The field of education has experienced extraordinary technological societal and institutional change in recent years making it one of the most fascinating yet complex fields of study in social science Unequaled in its combination of authoritative scholarship and comprehensive coverage International Encyclopedia of Education Third Edition succeeds two highly successful previous editions 1985 1994 in aiming to encapsulate research in this vibrant field for the twenty first century reader Under development for five years this work encompasses over 1 000 articles across 24 individual areas of coverage and is expected to become the dominant resource in the field Education is a multidisciplinary and international field drawing on a wide range of social sciences and humanities disciplines and this new edition comprehensively matches this diversity The diverse background and multidisciplinary subject coverage of the Editorial Board ensure a balanced and objective academic framework with 1 500 contributors representing over 100 countries capturing a complete portrait of this evolving field A totally new work revamped with a wholly new editorial board structure and brand new list of meta sections and articles Developed by an international panel of editors and authors drawn from senior academia Web enhanced with supplementary multimedia audio and video files hotlinked to relevant references and sources for further study Incorporates ca 1 350 articles with timely coverage of such topics as technology and learning demography and social change globalization and adult learning to name a few Offers two content delivery options print and online the latter of which provides anytime anywhere access for multiple users and superior search functionality via ScienceDirect as well as multimedia content including audio and video files Technology, Research and Professional Learning Jingjing Zhang,2018-06-20 This book investigates the use of network technologies in research and explores how such use potentially changes the nature of professional learning between academics It attempts to situate the discussion of technology use in real world research settings to identify the different forms of participation in intellectual exchange embedded in academic dialogue and to further contribute to knowledge on how the use of network technology potentially changes the nature of learning Multiple data collection methods are employed in two forms of study a single case study and a number of individual interviews The single case study was carried out over a one year period and consisted of interviews 22 interviewees observations and document review Individual semi structured interviews were carried out over a similar period of time with a wider and different population of 24 academics from different Oxford faculties Half of these were interviewed twice The main findings presented in this book demonstrate that the direct consequences of technology use are changes to academic dialogue and scholarly communication in general The change to this critical aspect of research scholarly communication has potentially led to more distributed research in interconnected research environments It is the

changes to scholarly communication and the research environment that consequently affect participation in intellectual exchange

*On Being a Scientist* National Academy of Engineering, National Academy of Sciences, Institute of Medicine, Committee on Science, Engineering, and Public Policy, 1995-02-10 Since the first edition of *On Being a Scientist* was published in 1989 more than 200 000 copies have been distributed to graduate and undergraduate science students Now this well received booklet has been updated to incorporate the important developments in science ethics of the past 6 years and includes updated examples and material from the landmark volume *Responsible Science* National Academy Press 1992 The revision reflects feedback from readers of the original version In response to graduate students requests it offers several case studies in science ethics that pose provocative and realistic scenarios of ethical dilemmas and issues *On Being a Scientist* presents penetrating discussions of the social and historical context of science the allocation of credit for discovery the scientist's role in society the issues revolving around publication and many other aspects of scientific work The booklet explores the inevitable conflicts that arise when the black and white areas of science meet the gray areas of human values and biases Written in a conversational style this booklet will be of great interest to students entering scientific research their instructors and mentors and anyone interested in the role of scientific discovery in society

*After the Breakthrough* Helga Nowotny, Ulrike Felt, 2002-08-22 Short book on the history and sociology of science surrounding the discovery of high temperature superconductivity

**Handbook of the Economics of Innovation** Bronwyn H. Hall, Nathan Rosenberg, 2010-05-14 Economists examine the genesis of technological change and the ways we commercialize and diffuse it The economics of property rights and patents in addition to industry applications are also surveyed through literature reviews and predictions about fruitful research directions Two volumes available as a set or sold separately Expert articles consider the best ways to establish optimal incentives in technological progress Science and innovation both their theories and applications are examined at the intersections of the marketplace policy and social welfare Economists are only part of an audience that includes attorneys educators and anyone involved in new technologies

Handbook of Quantitative Science and Technology Research Henk F. Moed, Wolfgang Glänzel, Ulrich Schmoch, 2006-02-23 This handbook offers a state of the art overview of quantitative science and technology research It focuses on the development and application of indicators derived from data on scientific or scholarly publications and patents It comprises 34 chapters written by leading specialists in the various sub domains These chapters deal with theoretical and methodological issues illustrate applications and highlight their policy context and relevance Authors present a survey of the research topics they address and show their most recent achievements The 34 chapters are arranged into 5 parts Disciplinary Approaches General Methodology The Science System The Technology System and The Science Technology Interface The Editor's Introduction provides a further specification of the handbook's scope and of the main topics addressed in its chapters This handbook aims at four distinct groups of readers practitioners in the field of science and technology studies research students in this field scientists scholars



and technicians who are interested in a systematic thorough analysis of their activities policy makers and administrators who wish to be informed about the potentialities and limitations of the various approaches and about their results

**Environmental Expertise** Esther Turnhout, Willemijn Tuinstra, Willem Halffman, 2019-02-21 An important goal of environmental research is to inform policy and decision making However environmental experts working at the interface between science policy and society face complex challenges including how to identify sources of disagreement over environmental issues communicate uncertainties and limitations of knowledge and tackle controversial topics such as genetic modification and the use of biofuels This book discusses the problems environmental experts encounter in the interaction between knowledge society and policy on both a practical and conceptual level Key findings from social science research are illustrated with a range of case studies from fisheries to fracking The book offers guidance on how to tackle these challenges equipping readers with tools to better understand the diversity of environmental knowledge and its role in complex environmental issues Written by leading natural and social scientists this text provides an essential resource for students scientists and professionals working at the science policy interface

**Crossing Frontiers** W. Andrew Achenbaum, 1995-08-25 This is the first book length study of the history of gerontology It shows how old age became a problem worth investigating and how a multidisciplinary orientation took shape

**Reforming Higher Education** Christine Musselin, Pedro N. Teixeira, 2013-10-07 This book analyzes the reforms that led to a differentiated landscape of higher education systems after university practices and governance were considered poorly adapted to contemporary settings and to their new missions This has led to a growing institutional differentiation in many higher education systems This differentiation has certainly contributed to making the institutional landscape more diverse across and within higher education systems This book covers this diversity Each part corresponds to a different but complementary way of looking at reforms and highlights what can be learnt on specific cases by adopting a specific perspective The first part analyzes the ongoing reforms and their evolution identifies their internal contradictions as well as the redefinitions and reorientations they experience and reveals the ideas representations ideologies and theories on which they are built The second part includes comparison between countries but also other comparative perspectives such as how one reform is developed in different regions of the same country as well as how comparable reforms are declined to different sectors The last part addresses the impact of the reforms What is known about the effectiveness of such instruments on higher education systems This part shows that reforms provoke new power games and reconfigure power relations

**Reflection Without Rules** D. Wade Hands, 2001-04-09 This book is a comprehensive and often controversial survey of economic methodology

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