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SCIENCE ADVISERS AS POLICYMAKERS

Sheila Jasanoff

Fifth Branch Science Advisors As Policymakers

Mark R. Powell



Fifth Branch Science Advisors As Policymakers:

The Fifth Branch Sheila Jasanoff, 1998-08-19 How can decisionmakers tasked with protecting the environment and public health avoid false or misleading scientific research Is it possible to give scientists more influence in regulatory processes without ceding too much control over policy These are some of the questions Jasanoff asks in this study of how science advisers shape federal policy Routledge Handbook of Public Communication of Science and Technology Massimiano Bucchi, Brian Trench, 2014-06-20 Communicating science and technology is a high priority of many research and policy institutions a concern of many other private and public bodies and an established subject of training and education Over the past few decades the field has developed and expanded significantly both in terms of professional practice and in terms of research and reflection The Routledge Handbook of Public Communication of Science and Technology provides a state of the art review of this fast growing and increasingly important area through an examination of the research on the main actors issues and arenas involved In this brand new revised edition the book brings the reviews up to date and deepens the analysis As well as substantial reworking of many chapters it gives more attention to digital media and the global aspects of science communication with the inclusion of four new chapters Several new contributors are added to leading mass communication scholars sociologists public relations practitioners science writers and others featured herein With key questions for further discussion highlighted in each chapter the handbook is a student friendly resource and its scope and expert contributors mean it is also ideal for both practitioners and professionals working in the field Combining the perspectives of different disciplines and of different geographical and cultural contexts this original text provides an interdisciplinary and global approach to the public communication of science and technology It is a valuable resource for students researchers educators and professionals in media and journalism sociology the history of science and science and technology **The Politics of Expertise in Congress** Bruce Bimber, 1996-08-08 Examines the relationship between technical experts and elected officials challenging the prevailing view about how experts become politicized by the policy process Social Science in Context Rickard Danell, Anna Larsson, Per Wisselgren, 2015-01-01 One of the very first books to explore the role of the social sciences in historical sociological and global perspectives it does so by analyzing the practical making and discursive aspects of social scientific disciplines including sociology economics psychology business and administration studies social gerontology gender studies educational science geography and political science It looks at them not only in their academic setting but also in extra academic contexts and in a broader global setting The volume includes 15 chapters written by an international and multidisciplinary group of scholars The overall aim of the book is to encourage a contextual and reflexive understanding of the complex and dynamic relationship between the social sciences and society of the past and in today's globalized world It is concerned with the bonds between the social sciences and society at large including themes such as gender and power science and politics academic boundaries and global power relations and postcolonial perspectives The Oxford Handbook

of U.S. Environmental Policy Sheldon Kamieniecki, Michael Kraft, 2013 Prior to the Nixon administration environmental policy in the United States was rudimentary at best. Since then it has evolved into one of the primary concerns of governmental policy from the federal to the local level. As scientific expertise on the environment rapidly developed, Americans became more aware of the growing environmental crisis that surrounded them. Practical solutions for mitigating various aspects of the crisis—air pollution, water pollution, chemical waste dumping, strip mining, and later global warming—became politically popular, and the government responded by gradually erecting a vast regulatory apparatus to address the issue. Today politicians regard environmental policy as one of the most pressing issues they face. The Obama administration has identified the renewable energy sector as a key driver of economic growth, and Congress is in the process of passing a bill to reduce global warming that will be one of the most important environmental policy acts in decades. The Oxford Handbook of U.S. Environmental Policy will be a state-of-the-art work on all aspects of environmental policy in America. Over the past half century, America has been the world's leading emitter of global warming gases. However, environmental policy is not simply a national issue. It is a global issue, and the explosive growth of Asian countries like China and India means that policy will have to be coordinated at the international level. The book will therefore focus not only on the U.S. but on the increasing importance of global policies and issues on American regulatory efforts. This is a topic that will only grow in importance in the coming years, and this will serve as an authoritative guide to any scholar interested in the issue.

Science and Risk

Regulation in International Law Jacqueline Peel, 2010-11-04 The regulation of risk is a preoccupation of contemporary global society and an increasingly important part of international law in areas ranging from environmental protection to international trade. This book examines a key aspect of international risk regulation: the way in which science and technical expertise are used in reaching decisions about how to assess and manage global risks. An interdisciplinary analysis is employed to illuminate how science has been used in international legal processes and global institutions such as the World Trade Organization. Case studies of risk regulation in international law are drawn from diverse fields including environmental treaty law, international trade law, food safety regulation, and standard setting, biosafety, and chemicals regulation. The book also addresses the important question of the most appropriate balance between science and non-scientific inputs in different areas of international risk regulation.

Professional Historians in Public Berber Bevernage, Lutz Raphael, 2023-07-24

The past decades' public interest in history is booming. This creates new opportunities but also challenges for professional historians. This book asks how historians deal with changing public demands for history and how these affect their professional practices, values, and identities. The volume offers a great variety of detailed studies of cases where historians have applied their expertise outside the academic sphere. With contributions focusing on Latin America, Africa, Asia, the Pacific, and Europe, the book has a broad geographical scope. Subdivided in five sections, the book starts with a critical look back on some historians who broke with mainstream academic positions by combining their professional activities with an explicit

political partisanship or social engagement The second section focusses on the challenges historians are confronted with when entering the court room or more generally exposing their expertise to legal frameworks The third section focuses on the effects of policy driven demands as well as direct political interventions and regulations on the historical profession A fourth section looks at the challenges and opportunities related to the rise of new digital media Finally several authors offer their view on normative standards that may help to better respond to new demands and to define role models for publicly engaged historians This book aims at historians and other academics interested in public uses of history

The Handbook of Science and Technology Studies, fourth edition Ulrike Felt, Rayvon Fouche, Clark A. Miller, Laurel Smith-Doerr, 2016-12-16

The fourth edition of an authoritative overview with all new chapters that capture the state of the art in a rapidly growing field Science and Technology Studies STS is a flourishing interdisciplinary field that examines the transformative power of science and technology to arrange and rearrange contemporary societies The Handbook of Science and Technology Studies provides a comprehensive and authoritative overview of the field reviewing current research and major theoretical and methodological approaches in a way that is accessible to both new and established scholars from a range of disciplines This new edition sponsored by the Society for Social Studies of Science is the fourth in a series of volumes that have defined the field of STS It features 36 chapters each written for the fourth edition that capture the state of the art in a rich and rapidly growing field One especially notable development is the increasing integration of feminist gender and postcolonial studies into the body of STS knowledge The book covers methods and participatory practices in STS research mechanisms by which knowledge people and societies are coproduced the design construction and use of material devices and infrastructures the organization and governance of science and STS and societal challenges including aging agriculture security disasters environmental justice and climate change

Atmospheric Science at NASA Erik M. Conway, 2008-11-03 Honorable Mention 2008 ASLI Choice Awards Atmospheric Science Librarians International This book offers an informed and revealing account of NASA's involvement in the scientific understanding of the Earth's atmosphere Since the nineteenth century scientists have attempted to understand the complex processes of the Earth's atmosphere and the weather created within it This effort has evolved with the development of new technologies from the first instrument equipped weather balloons to multibillion dollar meteorological satellite and planetary science programs Erik M Conway chronicles the history of atmospheric science at NASA tracing the story from its beginnings in 1958 the International Geophysical Year through to the present focusing on NASA's programs and research in meteorology stratospheric ozone depletion and planetary climates and global warming But the story is not only a scientific one NASA's researchers operated within an often politically contentious environment Although environmental issues garnered strong public and political support in the 1970s the following decades saw increased opposition to environmentalism as a threat to free market capitalism Atmospheric Science at NASA critically examines this politically controversial science dissecting the often

convoluted roles motives and relationships of the various institutional actors involved among them NASA congressional appropriation committees government weather and climate bureaus and the military

Philanthropy and the Future of Science and Technology Evan S. Michelson, 2020-06-14 An increasingly important and often overlooked issue in science and technology policy is recognizing the role that philanthropies play in setting the direction of research In an era where public and private resources for science are strained the practices that foundations adopt to advance basic and applied research needs to be better understood This first of its kind study provides a detailed assessment of the current state of science philanthropy This examination is particularly timely given that science philanthropies will have an increasingly important and outsized role to play in advancing responsible innovation and in shaping how research is conducted

Philanthropy and the Future of Science and Technology surveys the landscape of contemporary philanthropic involvement in science and technology by combining theoretical insights drawn from the responsible research and innovation RRI framework with empirical analysis investigating an array of detailed examples and case studies Insights from interviews conducted with foundation representatives scholars and practitioners from a variety of sectors add real world perspective A wide range of philanthropic interventions are explored focusing on support for individuals institutions and networks with attention paid to the role that science philanthropies play in helping to establish and coordinate multi sectoral funding partnerships Novel approaches to science philanthropy are also considered including the emergence of crowdfunding and the development of new institutional mechanisms to advance scientific research The discussion concludes with an imaginative look into the future outlining a series of lessons learned that can guide how new and established science philanthropies operate and envisioning alternative scenarios for the future that can inform how science philanthropy progresses over the coming decades This book offers a major contribution to the advancement of philanthropic investment in science and technology Thus it will be of considerable interest to researchers and students in public policy public administration political science science and technology studies sociology of science and related disciplines

Genetics and Society Anne Kerr, 2004-06-24 *Genetics and Society* looks at the history of genetic science and the wide ranging impact it has had on contemporary society using fascinating and cutting edge examples throughout

Knowledge, Power, and Participation in Environmental Policy Analysis Rob Hoppe, 2018-01-16 This volume probes practical dilemmas and competing research perspectives in environmental policy analysis Scholars working in different fields research traditions societies and policy domains offer significant insights into the processes and consequences of environmental policy making Part 1 Coping with Boundaries describes present day conflict between experts and greater public participation in environmental policy It shows that the institutionalization of increasingly complex environmental problems has led to a conflict between technocracy and democracy Part 2 The Transnational Challenge examines modes of cooperation between grassroots movements scientists and regional authorities in the United States and Canada These and other modes of cooperation laid the foundations for the Great

Lakes Water Quality Agreement increased the effectiveness of air pollution treaties and increased climate change Part 3 Bio Hazards Policies and Paralysis deals with environmental problems closest to the everyday concerns of the public at large because they have immediate implications for food safety and other values Part 4 The Citizens Perspective focuses on citizen vis a vis environmental policy noting that in order to make policies work citizens must be willing and able to participate in policy making and cooperate in implementing environmental choices Part 5 Confronting Ordinary and Expert Knowledge explores opportunities and constraints affecting public participation in evaluation of science Part 6 Developments in Research Programming addresses such questions as whether scientists still have opportunities to do the research they want without being interrupted or disturbed by policy makers and other stakeholders Part 7 Policy Sciences Aspirations explores different avenues for improving environmental policy Volume twelve in the PSRA series should inspire further investigations of the relations among knowledge power and participation in environmental policy It will be of timely interest to

environmentalists policy makers scholars and the general public **Fields and Streams** Rebecca Lave, 2012-11-01

Examining the science of stream restoration Rebecca Lave argues that the neoliberal emphasis on the privatization and commercialization of knowledge has fundamentally changed the way that science is funded organized and viewed in the United States Stream restoration science and practice is in a startling state The most widely respected expert in the field Dave Rosgen is a private consultant with relatively little formal scientific training Since the mid 1990s many academic and federal agency based scientists have denounced Rosgen as a charlatan and a hack Despite this Rosgen's Natural Channel Design approach classification system and short course series are not only accepted but are viewed as more legitimate than academically produced knowledge and training Rosgen's methods are now promoted by federal agencies including the Environmental Protection Agency the U S Forest Service the U S Fish and Wildlife Service and the Natural Resources Conservation Service as well as by resource agencies in dozens of states Drawing on the work of Pierre Bourdieu Lave demonstrates that the primary cause of Rosgen's success is neither the method nor the man but is instead the assignment of a new legitimacy to scientific claims developed outside the academy concurrent with academic scientists decreasing ability to defend their turf What is at stake in the Rosgen wars argues Lave is not just the ecological health of our rivers and streams

but the very future of environmental science **Environmental Protection, Law and Policy** Jane Holder, Maria

Lee, 2007-07-19 This 2007 book examines environmental law from a range of perspectives emphasising the policy world from which environmental law is drawn and nourished Those working within the discipline of environmental law need to engage with concepts and methods employed by disciplines other than law The authors analyse the ways in which legal activities are supported and legitimated by work in traditional scientific or technical domains as well as by certain more obscure but also influential cultural or philosophical assumptions A range of regulatory techniques is explored in this book through a close examination of both pollution control and land use The highly complex nature of current environmental problems demanding

sophisticated and responsive legal controls is illustrated by several in depth case studies including legal and policy analysis of the highly contested issues of genetically modified organisms and renewable energy projects Integrating Science and Policy in Natural Resource Management Roger N. Clark,1998 **The Advisers** Bruce Smith,2010-12-01 America s governing system is unique in the extent to which scientists and other outside experts participate in the policy process This wide ranging study traces the rise of scientists in the policy process and shows how outside experts interrelate with politicians and administrators to produce a unique and dynamic policy process It also shows how the very openness of American government creates the potential for unusual conflicts of interest Bruce L R Smith focuses on the experiences of agency and presidential level advisory systems over the past several decades He chronicles the special complexities and challenges resulting from the Federal Advisory Committee Act the open meeting law to provide a better understanding of the role of advisory committees and offers valuable lessons to guide their future use He looks at science advice in the Departments of Defense State and Energy the National Aeronautics and Space Administration the Environmental Protection Agency and then examines how science advisory mechanisms have worked at the White House Rather than simply providing a description of structures and institutions Smith shows the advisory systems in action how advisory systems work or fail to work in practice He analyzes how the advisers influence the policymaking process and affect the life of the agencies they serve Smith concludes with an assessment of the relationship between science advice and American democracy He explains that the widespread use of outside advisers clearly reflects America s preference for pluralism By scrutinizing agency plans goals and operations advisers and advisory committees serve a variety of functions and attempt to strike a balance between openness and citizen access to government and the need for discipline and sophisticated expertise in policymaking At the root of the advisory process is a paradox scientists are called on because of their special expertise but they are useful onl

Risk and Uncertainty Assessment for Natural Hazards Jonathan Rougier,Lisa J. Hill,Robert Stephen John Sparks,2013-02-21 A state of the art overview of natural hazard risk assessment for researchers and professionals in natural hazard science risk management and environmental science **Science at EPA** Mark R. Powell,2014-04-23 The U S Environmental Protection Agency was created to protect public health and the environment and it has traditionally emphasized its regulatory mission over its scientific mission Yet for environmental policy to be credible with the public and policymakers EPA s actions must have a sound basis in science In *Science at EPA* Mark Powell offers detailed case studies that map the origins flow and impact of scientific information in eight EPA decisions involving the agency s major statutory programs Drawing on extensive research and interviews he provides the most comprehensive examination available on the acquisition and use of science in environmental regulation Powell describes the key obstacles to the practical efficient and effective acquisition and use of knowledge in what is a crucial but complex endeavor His book is an essential contribution for practitioners scholars and students and citizens who are determined to protect our environment rationally and effectively

Knowledge Brokerage for Sustainable Development André Martinuzzi, Michal Sedlacko, 2017-09-08 The menace of a post truth era challenges conventional policy making and science Instead of fighting an uphill battle against populist solutions those involved in both policy making and science have to find innovative ways to collaborate and make use of the vast amounts of knowledge that are already available Knowledge brokerage in this context is more than a simple question and answer game it is a process of co creating and re framing knowledge In addition Knowledge Brokerage for Sustainable Development has to deal with trade offs and ambiguities as well as world views cultures and the preferences of stakeholder groups This book is the first in depth exploration of how knowledge brokerage has the potential to help manage the challenges of sustainable development across political and scientific systems It presents a selection of innovative and practical tools to enhance the connectivity of research and policy making on sustainable development issues In doing so this book will be an essential publication in research and policy making It supports networking among the developers and users of knowledge brokerage systems and will make their experience better known to the different communities involved The book presents interviews with leading policymakers and researchers such as former EU Commissioner Franz Fischler Robert Jan Smits Director General of Research and Innovation at the EC Uwe Schneidewind President of the Wuppertal Institute and Leida Rijnhout European Environmental Bureau It also provides insights into eleven EU funded projects dealing with different approaches of Knowledge Brokerage for Sustainable Development

Turmoil in American Public Policy Leslie R. Alm, Ross E. Burkhart, Marc V. Simon, 2010-04-15 This book explores the intricacies of the science policy linkage that pervades environmental policymaking in a democracy These are the key questions that this primary textbook for courses on American public policymaking and environmental policymaking addresses and attempts to answer *Turmoil in American Public Policy* Science Democracy and the Environment first lays out the basics of the policymaking process in the United States in relation to the substantive issues of environmental policymaking Drawing on hundreds of interviews the authors highlight the views and experiences of scientists especially natural scientists in their interactions with policymakers and their efforts to harness the findings of their science to rational public policy The proper role of science and scientists in relation to environmental policymaking hinges on fundamental questions at the intersection of political philosophy and scientific epistemology How can the experimental nature of the scientific method and the probabilistic expression of scientific results be squared with the normative language of legislation and regulation If scientists undertake to square the circle by hardening the tentative truths of their scientific models into positive truths to underpin public policy at what point may they be judged to have exceeded the proper limits of scientific knowledge relinquished their role as impartial experts and become partisan advocates demanding too much say in a democratic setting Providing students and secondarily policymakers scientists and citizen activists a theoretical and practical knowledge of the means availed by modern American democracy for resolving this tension is the object of this progressively structured textbook

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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and

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web sep 4 2014 dok levels are also not developmental all students including the youngest preschoolers are capable of strategic and extended thinking tasks what they look like will differ and what is level 3 to a kindergarten student may be a level 1 task for a middle schooler all students however should have opportunities to do complex reasoning

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web dok 3 3 lafs 3 rl 1 2 recount stories including fables folktales and myths from diverse cultures determine the central message lesson or moral and explain how it is conveyed through key details in the text dok 2 4 lafs 4 rl 1 2 determine a theme of a story drama or poem from details in the text summarize the text dok 3

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web jan 13 2020 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of $f(x)$ 5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web at dok level 3 the depth of knowledge questions for science should focus on a concept that has more than one possible answer at dok 3 students will design investigations around scientific questions evaluate models of engineering solutions justify conclusions based on experimental data with reasoning and evidence dok 4

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web i ve decided to expand upon my previous depth of knowledge matrix that helped make it easier to distinguish between depth of knowledge levels in mathematics while it is still useful it didn t cover every grade level and may be too broad in scope so i have made two new depth of knowledge matrices one for elementary mathematics and one for

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web sep 21 2015 writing allows us to assess the higher level thinking skills that are central to level 4 argumentative writing and prompts that ask students to synthesize information from multiple sources or works are great ways to get at level 4 dok skills in multi paragraph work students demonstrate synthesis and analysis of complex ideas or themes

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web dok 3 use information or conceptual knowledge two or more steps etc students have practiced these skills with assistance from kindergarten to second grade and on their own since third grade questions that lie at dok 1 necessitate only memorization and recall and so do not promote

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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web dec 15 2016 social studies assessments particularly those written to test the history or economic related standards allow teachers to assess the full range of a student s depth of knowledge dok of the content area considering level 1 through 4 dok question stems for social studies can help teachers better pinpoint student understanding and where

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web aug 8 2022 level 1 dok despite a question s simplicity you can still provide your class with many activities having them finish a range of products depending on the question s purpose students can paraphrase a passage or chapter of a book outline and re iterate the main points of a recent lesson

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web dok 1 recall and reproduce dok 2 basic application of skills and concepts dok 3 strategic reasoning dok 4 extended reasoning the questions you can ask in each strand are easy to

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web description this circular poster is based on webb s depth of knowledge which provides a vocabulary and a frame of reference when thinking about our students and how they engage with the content dok offers a common language to understand rigor or cognitive demand in assessments as well as curricular units lessons and tasks

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web apr 19 2019 they soon discovered that there weren t very many dok 4 questions those are really high level tasks some of them needed hints they noticed that there weren t any dok level 3 questions in kindergarten a lot of them had trouble deciding if the questions was a 2 or a 3

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web dec 3 2019 each column explores one of eight topics rounding adding 3 digit numbers subtracting 3 digit numbers multiplying multiples of ten fractions on a number line multiplying and dividing within 100 operations with time and area and perimeter you ll notice that the first problem in the column is traditional and familiar

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web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

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web dok level 3 requires higher cognitive demands than the previous levels students explain justify thinking and provide supporting evidence for reasoning or conclusions drawn level 3 tasks typically require reasoning complexity developing a plan or sequence of steps and have more than one possible response or solution

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