

Controversial Topics In Science

controversial topics in science: *Communicating Science Effectively* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Committee on the Science of Science Communication: A Research Agenda, 2017-03-08 Science and technology are embedded in virtually every aspect of modern life. As a result, people face an increasing need to integrate information from science with their personal values and other considerations as they make important life decisions about medical care, the safety of foods, what to do about climate change, and many other issues. Communicating science effectively, however, is a complex task and an acquired skill. Moreover, the approaches to communicating science that will be most effective for specific audiences and circumstances are not obvious. Fortunately, there is an expanding science base from diverse disciplines that can support science communicators in making these determinations. *Communicating Science Effectively* offers a research agenda for science communicators and researchers seeking to apply this research and fill gaps in knowledge about how to communicate effectively about science, focusing in particular on issues that are contentious in the public sphere. To inform this research agenda, this publication identifies important influences â€” psychological, economic, political, social, cultural, and media-related â€” on how science related to such issues is understood, perceived, and used.

controversial topics in science: *Current Controversies in Philosophy of Science* Shamik Dasgupta, Ravit Dotan, Brad Weslake, 2020-10-27 *Current Controversies in Philosophy of Science* asks twelve philosophers to debate six questions that are driving contemporary work in this area of philosophy. The questions are: I. Are Boltzmann Brains Bad? II. Does Mathematical Explanation Require Mathematical Truth? III. Does Quantum Mechanics Suggest Spacetime is Nonfundamental? IV. Is Evolution Fundamental When It Comes to Defining Biological Ontology? V. Is Chance Ontologically Fundamental? VI. Are Sexes Natural Kinds? These debates explore the philosophical foundations of particular scientific disciplines, while also examining more general issues in the philosophy of science. The result is a book that's perfect for the advanced philosophy student, building up their knowledge of the foundations of the field and engaging with its cutting-edge questions. Preliminary descriptions of each chapter, annotated lists of further readings for each controversy, and study questions for each chapter help provide clearer and richer snapshots of active controversies for all readers.

controversial topics in science: *Controversies in Science and Technology* Daniel Lee Kleinman, Karen A. Cloud-Hansen, Jo Handelsman, 2014-08-01 When it comes to any current scientific debate, there are more than two sides to every story. *Controversies in Science and Technology*, Volume 4 analyzes controversial topics in science and technology-infrastructure, ecosystem management, food security, and plastics and health-from multiple points of view. The editors have compiled thought-provoking essays from a variety of experts from academia and beyond, creating a volume that addresses many of the issues surrounding these scientific debates. Part I of the volume discusses infrastructure, and the real meaning behind the term in today's society. Essays address the central issues that motivate current discussion about infrastructure, including writing on the vulnerability to disasters. Part II, titled Food Policy, will focus on the challenges of feeding an ever-growing world and the costs of not doing so. Part III features essays on chemicals and environmental health, and works to define safety as it relates to today's scientific community. The book's final section examines ecosystem management. In the end, Kleinman, Cloud-Hansen, and Handelsman provide a multifaceted volume that will be appropriate for anyone hoping to understand arguments surrounding several of today's most important scientific controversies.

controversial topics in science: *Dual Use Research of Concern in the Life Sciences*

National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Committee on Science, Technology, and Law, Committee on Dual Use Research of Concern: Options for Future Management, 2017-10-01 The potential misuse of advances in life sciences research is raising concerns about national security threats. Dual Use Research of Concern in the Life Sciences: Current Issues and Controversies examines the U.S. strategy for reducing biosecurity risks in life sciences research and considers mechanisms that would allow researchers to manage the dissemination of the results of research while mitigating the potential for harm to national security.

controversial topics in science: Lies, Damned Lies, and Science Sherry Seethaler, 2009-01-13 "Comprehensive, readable, and replete with current, useful examples, this book provides a much-needed explanation of how to be a critical consumer of the scientific claims we encounter in our everyday lives." —April Cordero Maskiewicz, Department of Biology, Point Loma Nazarene University "Seethaler's book helps the reader look inside the workings of science and gain a deeper understanding of the pathway that is followed by a scientific finding—from its beginnings in a research lab to its appearance on the nightly news." —Jim Slotta, Ontario Institute for Studies in Education, University of Toronto "How I wish science was taught this way! Seethaler builds skills for critical thinking and evaluation. The book is rich with examples that not only illustrate her points beautifully, they also make it very interesting and fun to read." —Julia R. Brown, Director, Targacept, Inc. Don't Get Hoodwinked! Make Sense of Health and Science News...and Make Smarter Decisions! Every day, there's a new scientific or health controversy. And every day, it seems as if there's a new study that contradicts what you heard yesterday. What's really going on? Who's telling the truth? Who's faking it? What do scientists actually know—and what don't they know? This book will help you cut through the confusion and make sense of it all—even if you've never taken a science class! Leading science educator and journalist Dr. Sherry Seethaler reveals how science and health research really work...how to put scientific claims in context and understand the real tradeoffs involved...tell quality research from junk science...discover when someone's deliberately trying to fool you...and find more information you can trust! Nobody knows what new controversy will erupt tomorrow. But one thing's for certain: With this book, you'll know how to figure out the real deal—and make smarter decisions for yourself and your family! Watch the news, and you'll be overwhelmed by snippets of badly presented science: information that's incomplete, confusing, contradictory, out-of-context, wrong, or flat-out dishonest. Defend yourself! Dr. Sherry Seethaler gives you a powerful arsenal of tools for making sense of science. You'll learn how to think more sensibly about everything from mad cow disease to global warming—and how to make better science-related decisions in both your personal life and as a citizen. You'll begin by understanding how science really works and progresses, and why scientists sometimes disagree. Seethaler helps you assess the possible biases of those who make scientific claims in the media, and place scientific issues in appropriate context, so you can intelligently assess tradeoffs. You'll learn how to determine whether a new study is really meaningful; uncover the difference between cause and coincidence; figure out which statistics mean something, and which don't. Seethaler reveals the tricks self-interested players use to mislead and confuse you, and points you to sources of information you can actually rely upon. Her many examples range from genetic engineering of crops to drug treatments for depression...but the techniques she teaches you will be invaluable in understanding any scientific controversy, in any area of science or health. ^ Potions, plots, and personalities: How science progresses, and why scientists sometimes disagree ^ Is it "cause" or merely coincidence? How to tell compelling evidence from a "good story" ^ There are always tradeoffs: How to put science and health claims in context, and understand their real implications ^ All the tricks experts use to fool you, exposed! How to recognize lies, "truthiness," or pseudo-expertise

controversial topics in science: Controversy in Science Museums Erminia Pedretti, Ana Maria Navas Iannini, 2020-04-30 Controversy in Science Museums focuses on exhibitions that approach sensitive or controversial topics. With a keen sense of past and current practices, Pedretti and Navas Iannini examine and re-imagine how museums and science centres can create exhibitions that embrace criticality and visitor agency. Drawing on international case studies and voices from visitors

and museum professionals, as well as theoretical insights about scientific literacy and science communication, the authors explore the textured notion of controversy and the challenges and opportunities practitioners may encounter as they plan for and develop controversial science exhibitions. They assert that science museums can no longer serve as mere repositories for objects or sites for transmitting facts, but that they should also become spaces for conversations that are inclusive, critical, and socially responsible. *Controversy in Science Museums* provides an invaluable resource for museum professionals who are interested in creating and hosting controversial exhibitions, and for scholars and students working in the fields of museum studies, science communication, and social studies of science. Anyone wishing to engage in an examination and critique of the changing roles of science museums will find this book relevant, timely, and thought provoking.

controversial topics in science: *Controversies Within the Scientific Revolution* Marcelo Dascal, Victor D. Boantza, 2011-11-30 From the beginning of the Scientific Revolution around the late sixteenth century to its final crystallization in the early eighteenth century, hardly an observational result, an experimental technique, a theory, a mathematical proof, a methodological principle, or the award of recognition and reputation remained unquestioned for long. The essays collected in this book examine the rich texture of debates that comprised the Scientific Revolution from which the modern conception of science emerged. Were controversies marginal episodes, restricted to certain fields, or were they the rule in the majority of scientific domains? To what extent did scientific controversies share a typical pattern, which distinguished them from debates in other fields? Answers to these historical and philosophical questions are sought through a close attention to specific controversies within and across the changing scientific disciplines as well as across the borders of the natural and the human sciences, philosophy, theology, and technology.

controversial topics in science: *Communicating Uncertainty* Sharon M. Friedman, Sharon Dunwoody, Carol L. Rogers, 2012-10-12 Exploring the interactions that swirl around scientific uncertainty and its coverage by the mass media, this volume breaks new ground by looking at these issues from three different perspectives: that of communication scholars who have studied uncertainty in a number of ways; that of science journalists who have covered these issues; and that of scientists who have been actively involved in researching uncertain science and talking to reporters about it. In particular, *Communicating Uncertainty* examines how well the mass media convey to the public the complexities, ambiguities, and controversies that are part of scientific uncertainty. In addition to its new approach to scientific uncertainty and mass media interactions, this book distinguishes itself in the quality of work it assembles by some of the best known science communication scholars in the world. This volume continues the exploration of interactions between scientists and journalists that the three coeditors first documented in their highly successful volume, *Scientists and Journalists: Reporting Science as News*, which was used for many years as a text in science journalism courses around the world.

controversial topics in science: PROXY POLITICS , 2017

controversial topics in science: What's So Controversial about Genetically Modified Food? John T. Lang, 2016-08-15 The rampant use of genetically modified food incites public debate among activists, ethicists, scientists, regulators, and industry representatives. While proponents portray genetic modification as scientific progress, opponents reframe it as a form of perverted science. But why is it so controversial? This timely and balanced book explores the many myths and arguments surrounding this extremely topical issue. Written in an accessible style, free of technical jargon, it examines the science behind genetic modification and the controversies that reflect ongoing tensions between social and political power, democratic practice and corporate responsibility. It shows how food is deeply imbued with religious, social, cultural and ethical meanings, which bring a variety of non-scientific debates to the forefront, and also connects GM food to other issues such as globalization of food and corporate concentration. While our modern, mechanized, centralized and globalized infrastructure produces enormous amounts and varieties of food available at our convenience, it also produces irreducible social vulnerability and undeniable uncertainty. All those

who care about where their food comes from and how it is produced will enjoy this stimulating book.
-- Provided by publisher.

controversial topics in science: Current Controversies in Philosophy of Cognitive Science Adam J Lerner, Simon Cullen, Sarah-Jane Leslie, 2023-05-31 In this volume, leading researchers debate five core questions in the philosophy of cognitive science. For each topic, the volume provides two essays, each advocating for an opposing approach.

controversial topics in science: Controversies in Science and Technology Daniel Lee Kleinman, Abby J. Kinchy, Jo Handelsman, 2005-05-06 Written for general readers, teachers, journalists, and policymakers, this volume explores four controversial topics in science and technology, with commentaries from experts in such fields as sociology, religion, law, ethics, and politics: * Antibiotics and Resistance: the science, the policy debates, and perspectives from a microbiologist, a veterinarian, and an M.D. * Genetically Modified Maize and Gene Flow: the science of genetic modification, protecting genetic diversity, agricultural biotech versus the environment, corporate patents versus farmers' rights * Hormone Replacement Theory and Menopause: overview of the Women's Health Initiative, history of hormone replacement therapy, the medicalization of menopause, hormone replacement therapy and clinical trials * Smallpox: historical and medical overview of smallpox, government policies for public health, the Emergency Health Powers Act, public resistance vs. cooperation.

controversial topics in science: Public Engagement on Genetically Modified Organisms National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Earth and Life Studies, Board on Life Sciences, Roundtable on Public Interfaces of the Life Sciences, 2015-07-07 The National Research Council's Roundtable on Public Interfaces of the Life Sciences held a 2-day workshop on January 15-16, 2015, in Washington, DC to explore the public interfaces between scientists and citizens in the context of genetically engineered (GE) organisms. The workshop presentations and discussions dealt with perspectives on scientific engagement in a world where science is interpreted through a variety of lenses, including cultural values and political dispositions, and with strategies based on evidence in social science to improve public conversation about controversial topics in science. The workshop focused on public perceptions and debates about genetically engineered plants and animals, commonly known as genetically modified organisms (GMOs), because the development and application of GMOs are heavily debated among some stakeholders, including scientists. For some applications of GMOs, the societal debate is so contentious that it can be difficult for members of the public, including policy-makers, to make decisions. Thus, although the workshop focused on issues related to public interfaces with the life science that apply to many science policy debates, the discussions are particularly relevant for anyone involved with the GMO debate. *Public Engagement on Genetically Modified Organisms: When Science and Citizens Connect* summarizes the presentations and discussion of the workshop.

controversial topics in science: On the Fringe Michael D. Gordin, 2021 Pseudoscience is not a real thing. The term is a negative category, always ascribed to somebody else's beliefs, not to characterize a doctrine one holds dear oneself. People who espouse fringe ideas never think of themselves as pseudoscientists; they think they are following the correct scientific doctrine, even if it is not mainstream. In that sense, there is no such thing as pseudoscience, just disagreements about what the right science is. This is a familiar phenomenon. No believer ever thinks she is a heretic, for example, or an artist that he produces bad art. Those are attacks presented by opponents. Yet pseudoscience is also real. The term of abuse is used quite frequently, sometimes even about ideas that are at the core of the scientific mainstream, and those labels have consequences. If the reputation of pseudoscience solidifies, then it is very hard for a doctrine to shed the bad reputation. The outcome is plenty of scorn and no legitimacy (or funding) to investigate one's theories. In this, pseudoscience is a lot like heresy: if the label sticks, persecution follows--

controversial topics in science: Do Fish Feel Pain? Victoria Braithwaite, 2010-03-25 While there has been increasing interest in recent years in the welfare of farm animals, fish are frequently

thought to be different. In many people's perception, fish, with their lack of facial expressions or recognisable communication, are not seen to count when it comes to welfare. Angling is a major sport, and fishing a big industry. Millions of fish are caught on barbed hooks, or left to die by suffocation on the decks of fishing boats. Here, biologist Victoria Braithwaite explores the question of fish pain and fish suffering, explaining what we now understand about fish behaviour, and examining the related ethical questions about how we should treat these animals. She asks why the question of pain in fish has not been raised earlier, indicating our prejudices and assumptions; and argues that the latest and growing scientific evidence would suggest that we should widen to fish the protection currently given to birds and mammals.

controversial topics in science: Pseudoscience Brian Regal, 2009-10-15 More than just a collection of factual entries, this rich resource explores the difference between scientific and pseudoscientific pursuits in a way that spurs readers to ask questions and formulate answers. What makes science science? How do we tell which assertions, beliefs, and methods are scientifically sound, and which are not? Brian Regal's authoritative, entertaining new reference, *Pseudoscience: A Critical Encyclopedia* gets at the heart of these questions by helping readers understand how the scientific method works, how to critically analyze all kinds of evidence, and how to sort through long-running myths and current pseudoscience controversies. Ranging from the dawn of history to the present and across world cultures, *Pseudoscience* uses a field of endless fascination as a means of driving home the importance of solid scientific reasoning. The encyclopedia spans the full spectrum of scientific and nonscientific pursuits, from chemistry, biology, psychology, and medicine to eugenics, religion, cryptozoology, the occult, and paranormal activities. Specific entries focus on general concepts of science, the lives of individuals, and claims of abilities. Throughout, these entries go beyond simply stating facts by constantly engaging readers in a discussion about the very nature of true scientific discovery.

controversial topics in science: Origin Jennifer Raff, 2022-02-08 AN INSTANT NEW YORK TIMES BESTSELLER! From celebrated anthropologist Jennifer Raff comes the untold story—and fascinating mystery—of how humans migrated to the Americas. *ORIGIN* is the story of who the first peoples in the Americas were, how and why they made the crossing, how they dispersed south, and how they lived based on a new and powerful kind of evidence: their complete genomes. *ORIGIN* provides an overview of these new histories throughout North and South America, and a glimpse into how the tools of genetics reveal details about human history and evolution. 20,000 years ago, people crossed a great land bridge from Siberia into Western Alaska and then dispersed southward into what is now called the Americas. Until we venture out to other worlds, this remains the last time our species has populated an entirely new place, and this event has been a subject of deep fascination and controversy. No written records—and scant archaeological evidence—exist to tell us what happened or how it took place. Many different models have been proposed to explain how the Americas were peopled and what happened in the thousands of years that followed. A study of both past and present, *ORIGIN* explores how genetics is currently being used to construct narratives that profoundly impact Indigenous peoples of the Americas. It serves as a primer for anyone interested in how genetics has become entangled with identity in the way that society addresses the question Who is indigenous?

controversial topics in science: Clones, Cats, and Chemicals Irwin L. Slesnick, 2004 Does human cloning present a threat or an opportunity? Do common cats constitute a major threat to wildlife? Will the development of new chemical and biological weapons deter war or lead to it? If you want students to think, really think, about the science behind some of today's toughest controversies, this book will give you the facts and the framework to provoke fascinating debates. *Clones, Cats, and Chemicals* examines 10 dilemmas from the fields of biology, chemistry, physics, Earth science, technology, and mathematics and helps you challenge students to confront scientific and social problems that offer few black-and-white solutions. Each question is presented as a two-part unit: concise scientific background with possible resolutions and a reference list for further teacher reading, and a reproducible essay, questions, and activities to guide students in

debating and decision making.

controversial topics in science: The Case for Contention Jonathan Zimmerman, Emily Robertson, 2017-04-24 From the fights about the teaching of evolution to the details of sex education, it may seem like American schools are hotbeds of controversy. But as Jonathan Zimmerman and Emily Robertson show in this insightful book, it is precisely because such topics are so inflammatory outside school walls that they are so commonly avoided within them. And this, they argue, is a tremendous disservice to our students. Armed with a detailed history of the development of American educational policy and norms and a clear philosophical analysis of the value of contention in public discourse, they show that one of the best things American schools should do is face controversial topics dead on, right in their classrooms. Zimmerman and Robertson highlight an aspect of American politics that we know all too well: We are terrible at having informed, reasonable debates. We opt instead to hurl insults and accusations at one another or, worse, sit in silence and privately ridicule the other side. Wouldn't an educational system that focuses on how to have such debates in civil and mutually respectful ways improve our public culture and help us overcome the political impasses that plague us today? To realize such a system, the authors argue that we need to not only better prepare our educators for the teaching of hot-button issues, but also provide them the professional autonomy and legal protection to do so. And we need to know exactly what constitutes a controversy, which is itself a controversial issue. The existence of climate change, for instance, should not be subject to discussion in schools: scientists overwhelmingly agree that it exists. How we prioritize it against other needs, such as economic growth, however—that is worth a debate. With clarity and common-sense wisdom, Zimmerman and Robertson show that our squeamishness over controversy in the classroom has left our students woefully underserved as future citizens. But they also show that we can fix it: if we all just agree to disagree, in an atmosphere of mutual respect.

controversial topics in science: Getting to the Heart of Science Communication Faith Kearns, 2021-05-11 Scientists today working on controversial issues from climate change to drought to COVID-19 are finding themselves more often in the middle of deeply traumatizing or polarized conflicts they feel unprepared to referee. It is no longer enough for scientists to communicate a scientific topic clearly. They must now be experts not only in their fields of study, but also in navigating the thoughts, feelings, and opinions of members of the public they engage with, and with each other. And the conversations are growing more fraught. In *Getting to the Heart of Science Communication*, Faith Kearns has penned a succinct guide for navigating the human relationships critical to the success of practice-based science. This meticulously researched volume takes science communication to the next level, helping scientists to see the value of listening as well as talking, understanding power dynamics in relationships, and addressing the roles of trauma, loss, grief, and healing.

controversial topics in science: *Agricultural and Food Controversies* F. Bailey Norwood, Pascal A. Oltenacu, Michelle S. Calvo-Lorenzo, 2015 In *Agricultural and Food Controversies: What Everyone Needs to Know*, agricultural researchers present both sides of heavily debated agricultural and food issues. They answer questions and explain scholarly and scientific research on topics such as organic food, the safety of pesticides, livestock living conditions, the use of antibiotics in livestock intended for consumption, the effect of agriculture on the environment, and more.

controversial topics in science: **Parapsychology** Richard Broughton, 1992-03 Discussing all aspects of the subject of parapsychology, this book describes the debates about the validity of paranormal experiences, distinguishes between what is known and what is speculation in each field and discusses research from India and Russia. Case histories are included.

controversial topics in science: *Controversial Issues in Presidential Selection* Gary L. Rose, 1994-07-01 The book is designed to stimulate lively debate and critical thinking about the modern process of presidential selection. Eleven issues that impact directly on the selection of the president of the United States are examined in a scholarly and argumentative format. Essays pro and con on each issue educate students in the dynamics of presidential selection and help them evaluate

competing perspectives on today's pressing issues.

controversial topics in science: *Science, Evolution, and Creationism* Institute of Medicine, National Academy of Sciences, Committee on Revising Science and Creationism: A View from the National Academy of Sciences, 2008-01-28 How did life evolve on Earth? The answer to this question can help us understand our past and prepare for our future. Although evolution provides credible and reliable answers, polls show that many people turn away from science, seeking other explanations with which they are more comfortable. In the book *Science, Evolution, and Creationism*, a group of experts assembled by the National Academy of Sciences and the Institute of Medicine explain the fundamental methods of science, document the overwhelming evidence in support of biological evolution, and evaluate the alternative perspectives offered by advocates of various kinds of creationism, including intelligent design. The book explores the many fascinating inquiries being pursued that put the science of evolution to work in preventing and treating human disease, developing new agricultural products, and fostering industrial innovations. The book also presents the scientific and legal reasons for not teaching creationist ideas in public school science classes. Mindful of school board battles and recent court decisions, *Science, Evolution, and Creationism* shows that science and religion should be viewed as different ways of understanding the world rather than as frameworks that are in conflict with each other and that the evidence for evolution can be fully compatible with religious faith. For educators, students, teachers, community leaders, legislators, policy makers, and parents who seek to understand the basis of evolutionary science, this publication will be an essential resource.

controversial topics in science: *Science Literacy* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Science Literacy and Public Perception of Science, 2016-11-14 Science is a way of knowing about the world. At once a process, a product, and an institution, science enables people to both engage in the construction of new knowledge as well as use information to achieve desired ends. Access to science—whether using knowledge or creating it—necessitates some level of familiarity with the enterprise and practice of science: we refer to this as science literacy. Science literacy is desirable not only for individuals, but also for the health and well-being of communities and society. More than just basic knowledge of science facts, contemporary definitions of science literacy have expanded to include understandings of scientific processes and practices, familiarity with how science and scientists work, a capacity to weigh and evaluate the products of science, and an ability to engage in civic decisions about the value of science. Although science literacy has traditionally been seen as the responsibility of individuals, individuals are nested within communities that are nested within societies—and, as a result, individual science literacy is limited or enhanced by the circumstances of that nesting. Science Literacy studies the role of science literacy in public support of science. This report synthesizes the available research literature on science literacy, makes recommendations on the need to improve the understanding of science and scientific research in the United States, and considers the relationship between scientific literacy and support for and use of science and research.

controversial topics in science: *Scientific Controversies* Dominique Raynaud, 2017-07-05 In *Scientific Controversies*, Dominique Raynaud shows how organized debates in the sciences help us establish or verify our knowledge of the world. If debates focus on form, scientific controversies are akin to public debates that can be understood within the framework of theories of conflict. If they focus on content, then such controversies have to do with a specific activity and address the nature of science itself. Understanding the major focus of a scientific controversy is a first step toward understanding these debates and assessing their merits. Controversies of unique socio-historic context, disciplines, and characteristics are examined: Pasteur's germ theory and Pouchet's theory of spontaneous generation; vitalism advocated at Montpellier versus experimental medicine in Paris; the science of optics about the propagation of visual rays; the origins of relativism (the Duhem-Quine problem). Touching on the work of Boudon, Popper, and others, Raynaud puts forward an incrementalist theory about the advancement of science through scientific controversies. The debates

Raynaud has selected share in common their pivotal importance to the history of the sciences. By understanding the role of controversy, we better understand the functioning of science and the stakes of the contemporary scientific debates.

controversial topics in science: *Silent Spring* Rachel Carson, 2002 The essential, cornerstone book of modern environmentalism is now offered in a handsome 40th anniversary edition which features a new Introduction by activist Terry Tempest Williams and a new Afterword by Carson biographer Linda Lear.

controversial topics in science: *Mindless Eating* Brian Wansink, 2010 A food psychologist identifies hidden factors, motivations, and cues that cause overeating and offers practical solutions to help avoid these hidden traps and enjoy food without putting on excess pounds.

controversial topics in science: *Scientists Debate Gaia* Stephen Henry Schneider, 2004 Leading scientists bring the controversy over Gaia up to date by exploring a broad range of recent thinking on Gaia theory.

controversial topics in science: *Reproducibility and Replicability in Science* National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Committee on Science, Engineering, Medicine, and Public Policy, Board on Research Data and Information, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on Reproducibility and Replicability in Science, 2019-10-20 One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. *Reproducibility and Replicability in Science* defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

controversial topics in science: *Hard Questions* Judith L. Pace, 2021-02-15 Teaching controversial issues in the classroom is now more urgent and fraught than ever as we face up to rising authoritarianism, racial and economic injustice, and looming environmental disaster. Despite evidence that teaching controversy is critical, educators often avoid it. How then can we prepare and support teachers to undertake this essential but difficult work? *Hard Questions: Learning to Teach Controversial Issues*, based on a cross-national qualitative study, examines teacher educators' efforts to prepare preservice teachers for teaching controversial issues that matter for democracy, justice, and human rights. It presents four detailed cases of teacher preparation in three politically divided societies: Northern Ireland, England, and the United States. The book traces graduate students' learning from university coursework into the classrooms where they work to put what they have learned into practice. It explores their application of pedagogical tools and the factors that facilitated or hindered their efforts to teach controversy. The book's cross-national perspective is compelling to a broad and diverse audience, raising critical questions about teaching controversial issues and providing educators, researchers, and policymakers tools to help them fulfill this essential democratic mission of education.

controversial topics in science: *Controversial Issues in Energy Policy* Alfred A. Marcus,

1992-09-03 A key long-term challenge faced by the United States and other leading world economies is breaking the link between economic growth and oil consumption. The energy price shocks of 1973 and 1979 showed the fragility of these dependent relationships and their impact on world politics. Alfred Marcus ably examines U.S. energy policymaking and reveals both the shortcomings and failures--as well as the surprising successes--of past energy-policy efforts. Following a review of events that transpired in the Persian Gulf after August, 1990, Marcus examines worldwide trends in energy production/consumption since the first energy-supply crisis of 1973. Ensuing chapters discuss the economics and politics of energy policy, the role(s) of markets and governments, and parts played by supplier and user nations from countries to cartels. Unique to this text is Marcus's review of U.S. policies and reactions to energy shortages as compared with the experiences of other major consuming nations (Japan, France, and Great Britain). At a time when energy policy is among the most important issues in world politics, *Controversial Issues in Energy Policy* skillfully outlines new and enduring issues of energy policy for academics and students in public policy, political science, public administration, and economics, as well as policy makers. Marcus provides a valuable insight into the dynamics of policy and politics around a vitally important resource. --Political Studies Association

controversial topics in science: Controversial Issues in Implant Dentistry Federico Hernández Alfaro, Hugo Campos Leitão, Cristina Porta Ferrer, Vanessa Ruiz Magaz, 2013 Dental implantology has seen a dramatic shift in the last decade for a variety of reasons including the incorporation of 3D tools for diagnosis and treatment planning, new implant surfaces and designs, bioactive materials, tissue engineering techniques, and minimally invasive surgical procedures. The combined effect of these innovations is a new paradigm of implant dentistry that is already changing the way clinicians treat edentulous patients and improving treatment options. Despite these advances within implantology, questions remain about many new techniques and developing technologies. This book focuses on the dynamic parts of this new paradigm that are still evolving--the controversial topics that are still subject to debate and that directly affect daily clinical practice. The author asks pressing questions and provides sound assessments.

controversial topics in science: Nonsense on Stilts Massimo Pigliucci, 2010-05-15 Recent polls suggest that fewer than 40 percent of Americans believe in Darwin's theory of evolution, despite it being one of science's best-established findings. More and more parents are refusing to vaccinate their children for fear it causes autism, though this link can be consistently disproved. And about 40 percent of Americans believe that the threat of global warming is exaggerated, despite near consensus in the scientific community that manmade climate change is real. Why do people believe bunk? And what causes them to embrace such pseudoscientific beliefs and practices? Noted skeptic Massimo Pigliucci sets out to separate the fact from the fantasy in this entertaining exploration of the nature of science, the borderlands of fringe science, and--borrowing a famous phrase from philosopher Jeremy Bentham--the nonsense on stilts. Presenting case studies on a number of controversial topics, Pigliucci cuts through the ambiguity surrounding science to look more closely at how science is conducted, how it is disseminated, how it is interpreted, and what it means to our society. The result is in many ways a "taxonomy of bunk" that explores the intersection of science and culture at large. No one--not the public intellectuals in the culture wars between defenders and detractors of science nor the believers of pseudoscience themselves--is spared Pigliucci's incisive analysis. In the end, *Nonsense on Stilts* is a timely reminder of the need to maintain a line between expertise and assumption. Broad in scope and implication, it is also ultimately a captivating guide for the intelligent citizen who wishes to make up her own mind while navigating the perilous debates that will affect the future of our planet.

controversial topics in science: Debate Dynamics: How Controversy Improves Our Beliefs Gregor Betz, 2012-08-15 Is critical argumentation an effective way to overcome disagreement? And does the exchange of arguments bring opponents in a controversy closer to the truth? This study provides a new perspective on these pivotal questions. By means of multi-agent simulations, it investigates the truth and consensus-conduciveness of controversial debates. The

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Socioscientific issues (SSI) involve the deliberate use of scientific topics that require students to engage in dialogue, discussion, and debate. They are usually controversial in nature but have ...

How do I engage the public with a controversial issue?

Controversial topics are part and parcel of working in many scientific fields. It is perfectly possible to engage with the public in a meaningful way around a controversial topic, as long as we are ...

Teaching Controversial Issues and Social Problems from an

controversial topics in the classroom was one of the approaches observed, along with others aimed at finding common ground and enhancing heterogeneity, similar to those also ...

Using Science Education Skills to Address Controversial Topics

Some of our students shield themselves against us before they ever hear a word we say. How can we—aside from building on questions that students bring to the classroom during political ...

Sharing Planetary Science: Addressing Controversial Topics

Controversial topics can come up during planetary science presentations with a variety of audiences, during family events, and even in conversations on an airplane or in an elevator. ...

Biology Instructors See Value in Discussing Controversial Topics ...

8 Jun 2022 · We surveyed a national sample of lower-level biology instructors to determine 1) why it is important for students to learn science, 2) the perceived educational value of ideological ...

Evolutionary Theory as a Controversial Topic in Science Curriculum ...

The controversial nature of evolutionary theory makes teaching evolution a difficult task for biology teachers, thereby creating a very interesting and unique research agenda for science ...

Knowledge overconfidence is associated with anti ... - Science | AAAS

20 Jul 2022 · we examine seven controversial issues on which there is a substantial scientific consensus: climate change, GM foods, vaccination, nuclear power, homeopathic medicine, ...

Climate Change and Political Controversy in the Science Classroom

Climate change science is complex and perceived to be controversial in nature by some stakeholders. Yet from the perspective of educators and policy makers, climate change ...

Preparing Science Teachers to Address Contentious and Sensitive ...

shifting science teacher preparation practices to directly address how to teach controversial science topics in ways that are culturally relevant to students. In sum the challenge for pre ...

Polarization for controversial scientific issues increases with more ...

Carnegie Mellon University researchers examined predictors of Americans' beliefs about six potentially controversial issues -- stem cell research, the big bang, human evolution, genetically...

Teaching Controversial Science for Social Responsibility: The

teaching controversial topics, whether as part of integrated science or some form of social responsibility orientated topic approach, is that it is not "systematic."

Teaching Critical Media Analysis of Controversial Science ... - JSTOR

controversial science topics in science, agriculture, and the environment. Historically, information literacy has primarily been found in the domain of education and is defined as 1) an

Scientists, Religious Experts, and other Sources of Knowledge: Non ...

Scientific knowledge can be controversial for a variety of ways active science that is – controversial within the scientific community, societally-denied science that is widely accepted ...

Examining how people reason about controversial scientific topics

Similar partisan divides in accepting science are found for topics that are socially or politically controversial, even if they are not scientifically contro- versial (Nisbet et al., 2015).

Teaching Controversial Socio-Scientific Issues in Biology and

science”, that is controversial, preliminary and under debate (Zimmerman, Bisanz and Bisanz, 1999). Therefore, media’s news may threaten the conception, shared by many ... content of ...

Unbiased Learning of Controversial Topics

Data and Study topics . We enabled the study for two controversial issues, one from the health domain and the other from politics. The primary claims (“issues at hand”) corresponding to the ...

Controversial topics represented in media - EUF

Report: Controversial Topics Represented in Media : 5: neither lead t o changes in the long term nor will they sensitise people sustainably to competent media ... It is the task of science ...

What do Americans think about controversial topics in schools?

2 days ago · controversial topics in schools? October 24 2022, by Daniel P. Smith Credit: Unsplash/CC0 Public Domain Like many, Anna Saavedra and Morgan Polikoff saw the viral ...

Teaching Controversial Science for Social Responsibility: The

100 Controversial Science for Social Responsibility One of the objections which has been advanced against teaching controversial topics, whether as part of integrated science or some ...

CHALLENGES AND LEARNING OPPORTUNITIES IN A CONTROVERSIAL ...

environment balanced between active discussion and respectful, science-based commentary. Many of our adopted procedures are transferrable to other research-grounded topics which, ...

Scientists, Religious Experts, and other Sources of Knowledge: Non ...

science subjects because of perceptions of conflict with some religious beliefs (Barnes et al., 2020). Sinatra et al. (2003) examined college learners' understandings, acceptance, and ...

Socioscientific Issues: Theory and Practice - ed

Socioscientific issues (SSI) involve the deliberate use of scientific topics that require students to engage in dialogue, discussion, and debate. They are usually controversial in nature but have ...

Learning and Teaching Climate Science: The Perils of Consensus ...

should be used in the teaching of climate change science. But rather than use agno-tology to enhance an understanding of the complicated nature of the complex Earth's climate, the ...

How Do the Mass Media Report the Controversial Scientific ...

The Public Understanding of Science was a report on the science communication published by the Royal Society in 1985, which is a landmark literature in the history of science ...

Controversies in Strength Training Guidelines and Recommendations

Exercise Physiology Laboratories, Exercise Science Program, University of New Mexico • Of all of the disciplines/topics in Exercise Science, strength training clearly has the smallest empirical ...

Knowledge overconfidence is associated with anti ... - Science

Higher levels of education, science literacy, and numeracy have been found to be associated with more polarization between groups on controversial and scientific topics (1821-). Some have ...

Elementary School Debate Topics - Making English Fun

100 Controversial Debate Topics for Elementary Students Elementary School Debate Topics 1. Technology and Society: Discussing the impact and role of technology in the lives of young ...

Paper Number: 4237 - □□□□□□□□□□

Paper Number: 4237 The role of belief, trust and values in communicating controversial geoscience topics Anderson, S.W.1 1Department of Earth and Atmospheric Sciences, The ...

Teachers' Conceptions of and Lesson Plans for Teaching Controversial ...

Within this framework, controversial issues can be understood as topics on which there is neither consensus dvisory Group on Citizenship 1998), (A nor a single answer or solution ...

Trending Nutrition Controversies #3: Top Controversies in 2021

topics to cover; we then, as a group of nutrition experts, voted on which topics to include. Each topic was summarized by practitioners famil-iar with the corresponding science and literature. ...

toward teaching controversial political issues - JSSE

toward teaching controversial political issues in school Rachel Sagee Keywords: controversial political issues; attitudes; civil education; democracy - The study examined teachers', parents' ...

Prediction of students' argumentation skills about controversial topics ...

Students were introduced to two controversial topics, global warming and genetically modified food, through the reading of a two-sided text on each topic. After reading, students were asked ...

Controversial topics in agroecology: A European perspective

controversial topics for agroecology and how they were debated; this format is approached by not only using European perspectives but also by relating such perspectives to the literature on ...

Students' opinions about teaching of the controversial topics in ...

the curriculum [2]. Controversial issues are based on individualism in pluralism, economic, political and social issues which consisted of various values, interests and different ideas [3]. It is one ...

Teaching Controversial Issues - DSPACE

controversial issue can present itself in any subject and teaching controversial issues may be a way in which to strengthen cross-curricular learning across subject areas. To varying degrees, ...

Teaching Critical Media Analysis of Controversial Science ... - JSTOR

controversial science topics in science, agriculture, and the environment. Historically, information literacy has primarily been found in the domain of education and is defined as 1) an

Teaching controversial issues Will Fry - portal.geography.org.uk

Science, said that 'Geography is in many ways a political subject; and it is of course a value-laden subject' (1985, cited in Roberts, 2013, p. 117). Teaching controversial issues Will describes ...

Guidelines for Planning and Facilitating Discussions on Controversial ...

to help instructors facilitate classroom discussion around controversial issues. Whatever the context, discussion about such topics must be structured in a way that defines boundaries for ...

State of the science on controversial topics: missing maxillary ...

State of the science on controversial topics: missing maxillary lateral incisors--a report of the Angle Society of Europe 2012 meeting. Johal, A; Katsaros, C; Kuijpers-Jagtman, AM; Angle ...

Preparing Science Teachers to Address Contentious and Sensitive Science ...

controversial science topics, could help teachers grasp and teach contentious science topics content from a pedagogical perspective (Wilson, Shulman, & Richert, 1987). As teachers learn ...

Framework for Teaching Controversial Issues Purpose - ProCon.org

Framework for Teaching Controversial Issues Teachers in every subject area face the challenge of teaching content that may be controversial in some way. In English language arts it may be ...

A Framework for Controversial Political Topics Identification ...

controversial topics. Thus, we can identify controversial issues and assess public appreciation. The main contributions of this work are: 1. A new framework for identifying controversial topics ...

Teaching Controversial Issues

WHAT ARE CONTROVERSIAL ISSUES? There is no agreed definition of what makes a controversial issue but for the purpose of this guide controversial issues can be defined as ...

Teaching Critical Media Analysis of Controversial Science, ...

controversial science topics in science, agriculture, and the environment. Historically, information literacy has primarily been found in the domain of education and is defined as 1) an ...

AI in the Gray: Exploring Moderation Policies in Dialogic Large ...

bates are also tagged into topics, such as “society”, “economics”, “science”, “philosophy” and “feminism”, which allows us to interrogate the stance of the different dialogic LLM models on ...

Science and Christianity in the Modern Age: An Exposition and ...

Science and Christianity in the Modern Age: An Exposition and Critique of Ian G. Barbour’s “Ways of Relating Science and Religion” By controversial topics like gay marriage, stem-cell ...

INTERPRETING DIFFICULT TOPICS THROUGH DIALOGIC ...

training modules about interpreting difficult or controversial topics, for consideration to be added to the University of Wisconsin-Stevens Point Environmental Education and Interpretation ...

Teaching Controversial and Contemporary Topics in Economics ...

29 Dec 2020 · apply core economic models to controversial and contemporary topics (Allgood, Walstad, and Siegfried 2015). To reach this goal, economics professors use recently ...

Teaching controversial environmental issues: neutrality and ...

their teaching about controversial environmental issues. By this means, they aimed to provide access to a diversity of views whilst, at the same time, to avoid stating their

Controversial Topics In Science Copy - netsec.csuci.edu

Controversial Topics In Science has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite ...

Uncovering gender stereotypes in controversial science discourse ...

science, and how these patterns might vary across platforms. Gender stereotypes in science communication Gender stereotypes is a core topic examined across social psy-

Questioning for Controversial and Critical Thinking Dialogues ...

in civil discourse on a variety of topics, some possibly controversial in nature (King, 2002; Ochoa & Pineda, 2008)). This dialogue can be beneficial to students in many ways. For this article ...

The most controversial topics in Wikipedia - arXiv.org

We present, visualize and analyse the similarities and differences between the controversial topics related to “edit wars” identified in 10 different language versions of Wikipedia. After a ...

The Effect of Collective Attention on Controversial Debates on ...

social science. In this work, we study discussions around issues that are deemed important at a societal level — and in particular, ones that are controversial. This work is a step towards ...

Controversial topics in agroecology: A European perspective

controversial topics for agroecology and how they were debated; this format is approached by not only using European perspectives but also by relating such perspectives to the literature on ...

Societal Controversies in Wikipedia Articles - arXiv.org

controversial topics. Contropedia uses an efficient language agnostic measure based on the edit history that focuses on wiki links to easily identify which topics within a Wikipedia article have ...

Chapter 13: Teaching controversial issues in science Chapter aims

Teaching about certain topics can be a source of concern and anxiety and it is entirely understandable to think about simply circumnavigating controversial issues and teaching ...

How issue entrepreneurs shape public discourse of controversial science ...

Social media as a new public arena for discussing controversial science issues Social media is a new public arena where issue entrepreneurs steer the evolution of public discourse in topics ...

Teaching about controversial issues: Rationale, practice, and need ...

from controversial topics, leaving little room for experiences to develop that promote and contain considerations for the common good. Ultimately, the avoidance of controversial issues leaves ...

Incorporating Controversial Issues in Critical Thinking Lesson: A ...

This case study investigated the issue of incorporating controversial topics in EFL classroom of pre-university students and their attitude toward such controversial topics namely, E-stalking in ...

A Letter to the NABT Community: NABT Statement on Efforts to ...

We have become increasingly alarmed by recent efforts to ban “controversial” science concepts from textbooks and curricula. Topics on climate change, reproduction, vaccines, and other ...

The most controversial topics in Wikipedia - arXiv.org

controversial topics in different language editions of Wikipedia.A further approach is to identify and visualize the contested topics that are shared in different languages and cultures as well as ...