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Delia's Tears

Race, Science, and Photography in Nineteenth-Century America *Yale University Press*
M -- N -- O -- P -- R -- S -- T -- U -- V -- W -- Y -- Z

Democracy and Arab Political Culture *Routledge*

Except for Israel, the Middle East remains largely untouched by the democratic revolution that swept across Eastern Europe and the former USSR. This book aims to explain and analyze the reasons why despotism or religious fundamentalism continue to control the Middle Eastern countries.

Rebels, Mavericks, and Heretics In Biology *Yale University Press*

This book is the first devoted to modern biology's innovators and iconoclasts: men and women who challenged prevailing notions in their fields. Some of these scientists were Nobel Prize winners, some were considered cranks or gadflies, some were in fact wrong. The stories of these stubborn dissenters are individually fascinating. Taken together, they provide unparalleled insights into the role of dissent and controversy in science and especially the growth of biological thought over the past century. Each of the book's nineteen specially commissioned chapters offers a detailed portrait of the intellectual rebellion of a particular scientist working in a major area of biology--genetics, evolution, embryology, ecology, biochemistry, neurobiology, and virology as well as others. An introduction by the volume's editors and an epilogue by R. C. Lewontin draw connections among the case studies and illuminate the nonconforming scientist's crucial function of disturbing the comfort of those in the majority. By focusing on the dynamics and impact of dissent rather than on winners who are credited with scientific advances, the book presents a refreshingly original perspective on the history of the life sciences. Scientists featured in this volume: Alfred Russel Wallace Hans DrieschWilhelm JohannsenRaymond Arthur DartC. D. DarlingtonRichard GoldschmidtBarbara McClintockOswald T. AveryRoger SperryLeon CroizatVero Copner Wynne-EdwardsPeter MitchellHoward TeminMotoo KimuraWilliam D. HamiltonCarl WoeseStephen Jay GouldThelma RowellDaniel S. Simberloff

Brain Theory

Biological Basis and Computational Principles *Elsevier*

The present collection of papers focuses on the subject of vision. The papers bring together new insights and facts from various branches of experimental and theoretical neuroscience. The experimental facts presented in the volume stem from disparate fields, such as neuroanatomy, electrophysiology, optical imaging and psychophysics. The theoretical models in part are unsophisticated, yet still inspiring, while others skilfully apply advanced mathematical reasoning to results of experimental measurements. The book is the fifth in a series of volumes intending to define a theory of the brain by bringing together formal reasoning and experimental facts. The reader is thus being introduced to a new kind of brain science, where facts and theory are beginning to blend together.

The Restoration of Engravings, Drawings, Books, and Other Works on Paper *Getty Publications*

Ever since its original publication in Germany in 1938, Max Schweidler's Die Instandsetzung von Kupferstichen, Zeichnungen, Buchern usw. has been recognized as a seminal modern text on the conservation and restoration of works on paper. This volume, based on the authoritative revised German edition of 1950, makes Schweidler's work available in English for the first time, in a meticulously edited and annotated scholarly edition. An extensively illustrated appendix presents case studies of eleven Old Master prints that were treated using the techniques Schweidler discusses.

Joe Grand's Best of Hardware, Wireless, and Game Console Hacking *Elsevier*

The book introduces the principles of hardware design and describes the tools and techniques required to begin hacking. The DVD contains hack instructions for over 20 game consoles and hardware devices from Nintendo, Apple, Sony, Microsoft, Palm and more. The presentation of these 20 projects on DVD media provides users with benefits and options not available on the printed page. All images are hi-res color that can be enlarged or printed, the text is easily searched, and the user can copy the contents to their hard disk and add comments directly into the PDF files. The DVD media also lends itself well to group projects (it includes a 10 user license). The 160-page book includes chapters on hacking tools and electrical engineering basics, along with chapters on the background, design and functionality of each hardware device. * Packed full of high resolution colour images that reveal the smallest details of each step in a hack * Includes in depth coverage of the tools of the hacking trade and the basics of electrical engineering * DVD includes a "Using the Tools" video starring Joe "kingpin" Grand

From Betty Crocker to Feminist Food Studies

Critical Perspectives on Women and Food *Liverpool University Press*

Sheds light on the history of food, cooking, and eating. This collection of essays investigates the connections between food studies and women's studies. From women in colonial India to Armenian American feminists, these essays show how food has served as a means to assert independence and personal identity.

Not To Put Too Fine a Point on It *Aperiodical LLC*

Climate Change, the Indoor Environment, and Health *National Academies Press*

The indoor environment affects occupants' health and comfort. Poor environmental conditions and indoor contaminants are estimated to cost the U.S. economy tens of billions of dollars a year in exacerbation of illnesses like asthma, allergic symptoms, and subsequent lost productivity. Climate change has the potential to affect the indoor environment because conditions inside buildings are influenced by conditions outside them. Climate Change, the Indoor Environment, and Health addresses the impacts that climate change may have on the indoor environment and the resulting health effects. It finds that steps taken to mitigate climate change may cause or exacerbate harmful indoor environmental conditions. The book discusses the role the Environmental Protection Agency (EPA) should take in informing the public, health professionals, and those in the building industry about potential risks and what can be done to address them. The study also recommends that building codes account for climate change projections; that federal agencies join to develop or refine protocols and testing standards for evaluating emissions from materials, furnishings, and appliances used in buildings; and that building weatherization efforts include consideration of health effects. Climate Change, the Indoor Environment, and Health is written primarily for the EPA and other federal agencies, organizations, and researchers with interests in public health; the environment; building design, construction, and operation; and climate issues.

Recent Research Towards Advanced Man-Machine Interface Through Spoken Language *Elsevier*

The spoken language is the most important means of human information transmission. Thus, as we enter the age of the Information Society, the use of the man-machine interface through the spoken language becomes increasingly important. Due to the extent of the problems involved, however, full realization of such an interface calls for coordination of research efforts beyond the scope of a single group or institution. Thus a nationwide research project was conceived and started in 1987 as one of the first Priority Research Areas supported by the Ministry of Education, Science and Culture of Japan. The project was carried out in collaboration with over 190 researchers in Japan. The present volume begins with an overview of the project, followed by 41 papers presented at the symposia. This work is expected to serve as an important source of information on each of the nine topics adopted for intensive study under the project. This book will serve as a guideline for further work in the important scientific and technological field of spoken language processing.

No Medium *MIT Press*

Close readings of ostensibly “blank” works—from unprinted pages to silent music—that point to a new understanding of media. In No Medium, Craig Dworkin looks at works that are blank, erased, clear, or silent, writing critically and substantively about works for which there would seem to be not only nothing to see but nothing to say. Examined closely, these ostensibly contentless works of art, literature, and music point to a new understanding of media and the limits of the artistic object. Dworkin considers works predicated on blank sheets of paper, from a fictional collection of poems in Jean Cocteau's Orphée to the actual publication of a ream of typing paper as a book of poetry; he compares Robert Rauschenberg's Erased De Kooning Drawing to the artist Nick Thurston's erased copy of Maurice Blanchot's The Space of Literature (in which only Thurston's marginalia were visible); and he scrutinizes the sexual politics of photographic representation and the implications of obscured or obliterated subjects of photographs. Reexamining the famous case of John Cage's 4'33”, Dworkin links Cage's composition to Rauschenberg's White Paintings, Ken Friedman's Zen for Record (and Nam June Paik's Zen for Film), and other works, offering also a “guide to further listening” that surveys more than 100 scores and recordings of “silent” music. Dworkin argues that we should understand media not as blank, base things but as social events, and that there is no medium, understood in isolation, but only and always a plurality of media: interpretive activities taking place in socially inscribed space.

Stealing the Network

How to Own a Shadow *Elsevier*

The best-selling Stealing the Network series reaches its climactic conclusion as law enforcement and organized crime form a high-tech web in an attempt to bring down the shadowy hacker-villain known as Knuth in the most technically sophisticated Stealing book yet. Stealing the Network: How to Own a Shadow is the final book in Syngress’ ground breaking, best-selling, Stealing the Network series. As with previous title, How to Own a Shadow is a fictional story that demonstrates accurate, highly detailed scenarios of computer intrusions and counter-strikes. In How to Own a Thief, Knuth, the master-mind, shadowy figure from previous books, is tracked across the world and the Web by cyber adversaries with skill to match his own. Readers will be amazed at how Knuth, Law Enforcement, and Organized crime twist and torque everything from game stations, printers and fax machines to service provider class switches and routers steal, deceive, and obfuscate. From physical security to open source information gathering, Stealing the Network: How to Own a Shadow will entertain and educate the reader on every page. The final book in the Stealing the Network series will be a must read for the 50,000 readers worldwide of the first three titles Law enforcement and security professionals will gain practical, technical knowledge for apprehending the most supplicated cyber-adversaries

Newnes Building Services Pocket Book *Routledge*

Newnes Building Services Pocket Book is a unique compendium of essential data, techniques and procedures, best practice, and underpinning knowledge. This makes it an essential tool for engineers involved in the design and day-to-day running of mechanical services in buildings, and a valuable reference for managers, students and engineers in related fields. This pocket reference gives the reader access to the knowledge and knowhow of the team of professional engineers who wrote the sixteen chapters that cover all aspects of mechanical building services. Topic coverage includes heating systems, ventilation, air conditioning, refrigeration, fans, ductwork, pipework and plumbing, drainage, and fire protection. The result

is a comprehensive guide covering the selection of HVAC systems, and the design process from initial drafts through to implementation. The second edition builds on the success of this popular guide with references to UK and EU legislation fully updated throughout, and coverage fully in line with the latest CIBSE guides.

Memorial Tributes

Volume 22 *National Academies Press*

This is the 22nd Volume in the series Memorial Tributes compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased. Through its members and foreign associates, the Academy carries out the responsibilities for which it was established in 1964. Under the charter of the National Academy of Sciences, the National Academy of Engineering was formed as a parallel organization of outstanding engineers. Members are elected on the basis of significant contributions to engineering theory and practice and to the literature of engineering or on the basis of demonstrated unusual accomplishments in the pioneering of new and developing fields of technology. The National Academies share a responsibility to advise the federal government on matters of science and technology. The expertise and credibility that the National Academy of Engineering brings to that task stem directly from the abilities, interests, and achievements of our members and foreign associates, our colleagues and friends, whose special gifts we remember in this book.

The Book of the Book *Octagon Press Ltd*

What Every Man Thinks about Apart from Sex

(Blank Inside)

Sustainability and the U.S. EPA *National Academies Press*

Sustainability is based on a simple and long-recognized factual premise: Everything that humans require for their survival and well-being depends, directly or indirectly, on the natural environment. The environment provides the air we breathe, the water we drink, and the food we eat. Recognizing the importance of sustainability to its work, the U.S. Environmental Protection Agency (EPA) has been working to create programs and applications in a variety of areas to better incorporate sustainability into decision-making at the agency. To further strengthen the scientific basis for sustainability as it applies to human health and environmental protection, the EPA asked the National Research Council (NRC) to provide a framework for incorporating sustainability into the EPA's principles and decision-making. This framework, Sustainability and the U.S. EPA, provides recommendations for a sustainability approach that both incorporates and goes beyond an approach based on assessing and managing the risks posed by pollutants that has largely shaped environmental policy since the 1980s. Although risk-based methods have led to many successes and remain important tools, the report concludes that they are not adequate to address many of the complex problems that put current and future generations at risk, such as depletion of natural resources, climate change, and loss of biodiversity. Moreover, sophisticated tools are increasingly available to address cross-cutting, complex, and challenging issues that go beyond risk management. The report recommends that EPA formally adopt as its sustainability paradigm the widely used "three pillars" approach, which means considering the environmental, social, and economic impacts of an action or decision. Health should be expressly included in the "social" pillar. EPA should also articulate its vision for sustainability and develop a set of sustainability principles that would underlie all agency policies and programs.

Metal Nanoclusters in Catalysis and Materials Science: The Issue of Size Control *Elsevier*

Metal Nanoclusters in Catalysis and Materials Science: The Issue of Size Control deals with the synthesis of metal nanoclusters along all known methodologies. Physical and chemical properties of metal nanoclusters relevant to their applications in chemical processing and materials science are covered thoroughly. Special attention is given to the role of metal nanoclusters size and shape in catalytic processes and catalytic applications relevant to industrial chemical processing. An excellent text for expanding the knowledge on the chemistry and physics of metal nanoclusters. Divided in two parts; Part I deals with general aspects of the matter and Part II has to be considered a useful handbook dealing with the production of metal nanoclusters, especially from their size-control point of view. * Divided into two parts for ease of reference: general and operational * Separation of synthetic aspects, physical properties and applications * Specific attention is given to the task of metal nanoclusters size-control

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This is an art zine illustrated mainly with ink drawings of different faces coupled with thoughts about the condition of humanity. It takes place mostly on trains.

Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories *National Academies Press*

During July 10-13, 2011, 68 participants from 32 countries gathered in Istanbul, Turkey for a workshop organized by the United States National Research Council on Anticipating Biosecurity Challenges of the Global Expansion of High-containment Biological Laboratories. The United States Department of State's Biosecurity Engagement Program sponsored the workshop, which was held in partnership with the Turkish Academy of Sciences. The international workshop examined biosafety and biosecurity issues related to the design, construction, maintenance, and operation of

high-containment biological laboratories- equivalent to United States Centers for Disease Control and Prevention biological safety level 3 or 4 labs. Although these laboratories are needed to characterize highly dangerous human and animal pathogens, assist in disease surveillance, and produce vaccines, they are complex systems with inherent risks. Biosecurity Challenges of the Global Expansion of High-Containment Biological Laboratories summarizes the workshop discussion, which included the following topics: Technological options to meet diagnostic, research, and other goals; Laboratory construction and commissioning; Operational maintenance to provide sustainable capabilities, safety, and security; and Measures for encouraging a culture of responsible conduct. Workshop attendees described the history and current challenges they face in their individual laboratories. Speakers recounted steps they were taking to improve safety and security, from running training programs to implementing a variety of personnel reliability measures. Many also spoke about physical security, access controls, and monitoring pathogen inventories. Workshop participants also identified tensions in the field and suggested possible areas for action.

Report of the Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics

Seventh Round National Academies Press

This report describes the work of the Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics, Seventh Round. The committee evaluated submissions received in response to a Request for Proposals (RFP) for biomolecular simulation time on Anton, a supercomputer specially designed and built by D.E. Shaw Research (DESRES). Over the past five years, DESRES has made an Anton system housed at the Pittsburgh Supercomputing Center (PSC) available to the non-commercial research community, based on the advice of previous National Research Council committees. As in prior rounds, the goal of the seventh RFP for simulation time on Anton is to continue to facilitate breakthrough research in the study of biomolecular systems by providing a massively parallel system specially designed for molecular dynamics simulations. The program seeks to continue to support research that addresses important and high impact questions demonstrating a clear need for Anton's special capabilities. Report of the Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics, Seventh Round is the report of the committee's evaluation of proposals based on scientific merit, justification for requested time allocation, and investigator qualifications and past accomplishments. This report identifies the proposals that best met the selection criteria.

This Page Intentionally Left Blank - Just Like the Paychecks of the Workers

This Page Intentionally Left Blank deals with many aspects of work, especially the plight of the laborer wrought on him by big business and the government. Innovative solutions are offered as well as a call for a 30-hour workweek and a new minimum wage of \$15 an hour, both of which are doable and will solve numerous problems, especially health care. At the same time they will increase productivity and the bottom line of the corporations. These two changes will also allow people to retire sooner and also have a few years to enjoy that time.

Mitigating Shore Erosion Along Sheltered Coasts National Academies Press

Like ocean beaches, sheltered coastal areas experience land loss from erosion and sea level rise. In response, property owners often install hard structures such as bulkheads as a way to prevent further erosion, but these structures cause changes in the coastal environment that alter landscapes, reduce public access and recreational opportunities, diminish natural habitats, and harm species that depend on these habitats for shelter and food. Mitigating Shore Erosion Along Sheltered Coasts recommends coastal planning efforts and permitting policies to encourage landowners to use erosion control alternatives that help retain the natural features of coastal shorelines.

Sequence-Based Classification of Select Agents

A Brighter Line National Academies Press

Select Agents are defined in regulations through a list of names of particularly dangerous known bacteria, viruses, toxins, and fungi. However, natural variation and intentional genetic modification blur the boundaries of any discrete Select Agent list based on names. Access to technologies that can generate or 'synthesize' any DNA sequence is expanding, making it easier and less expensive for researchers, industry scientists, and amateur users to create organisms without needing to obtain samples of existing stocks or cultures. This has led to growing concerns that these DNA synthesis technologies might be used to synthesize Select Agents, modify such agents by introducing small changes to the genetic sequence, or create entirely new pathogens. Amid these concerns, the National Institutes of Health requested that the Research Council investigate the science and technology needed to replace the current Select Agent list with an oversight system that predicts if a DNA sequence could be used to produce an organism that should be regulated as a Select Agent. A DNA sequence-based system to better define when a pathogen or toxin is subject to Select Agent regulations could be developed. This could be coupled with a 'yellow flag' system that would recognize requests to synthesize suspicious sequences and serve as a reference to anyone with relevant questions, allowing for appropriate follow-up. Sequence-Based Classification of Select Agents finds that replacing the current list of Select Agents with a system that could predict if fragments of DNA sequences could be used to produce novel pathogens with Select Agent characteristics is not feasible. However, it emphasized that for the foreseeable future, any threat from synthetic biology and synthetic genomics is far more likely to come from assembling known Select Agents, or modifications of them, rather than construction of previously unknown agents. Therefore, the book recommends modernizing the regulations to define Select Agents in terms of their gene sequences, not by their names, and called this 'sequence-based classification.'

Parallel Computational Fluid Dynamics '96

Algorithms and Results Using Advanced Computers Elsevier

In the last decade parallel computing has been put forward as the only computational answer to the increasing computational needs arising from very large and complex fluid dynamic problems. Considerable efforts are being made to use parallel computers efficiently to solve several fluid dynamic problems originating in aerospace, climate modelling and environmental applications. Parallel CFD Conferences are international and aim to increase discussion among researchers worldwide. Topics covered in this particular book include typical CFD areas such as turbulence, Navier-Stokes and Euler solvers, reactive flows, with a good balance between both university and industrial applications. In addition, other applications making extensive use of CFD such as climate modelling and environmental applications are also included. Anyone involved in the challenging field of Parallel Computational Fluid Dynamics will find this volume useful in their daily work.

Intoxicating Followership

in the Jonestown Massacre Emerald Group Publishing

This book is for those who desire to gain insight into the leader/follower dynamic in order to serve others by unmasking the dangers of toxic followership, provide prevention suggestions, and reveal followers’ power, even in desperate situations.

Handbook of Optical Constants of Solids Academic Press

This handbook--a sequel to the widely used Handbook of Optical Constants of Solids--contains critical reviews and tabulated values of indexes of refraction (n) and extinction coefficients (k) for almost 50 materials that were not covered in the original handbook. For each material, the best known n and k values have been carefully tabulated, from the x-ray to millimeter-wave region of the spectrum by expert optical scientists. In addition, the handbook features thirteen introductory chapters that discuss the determination of n and k by various techniques. * Contributors have decided the best values for n and k * References in each critique allow the reader to go back to the original data to examine and understand where the values have come from * Allows the reader to determine if any data in a spectral region needs to be filled in * Gives a wide and detailed view of experimental techniques for measuring the optical constants n and k * Incorporates and describes crystal structure, space-group symmetry, unit-cell dimensions, number of optic and acoustic modes, frequencies of optic modes, the irreducible representation, band gap, plasma frequency, and static dielectric constant

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This book was born from a passion of poetry, and an idea for a school project. Inside is a collection of poems created by me, a 15 year old outlier. They range from death, to love, to just what I was thinking about that day. I hope you enjoy them as much as I loved writing them. (And if you are on the edge about reading it, here are some compliments to sway you) Oh my! You look lovely today, want to know what else is lovely? Answer: This book you're holding. I feel like you and this book would compliment each other very well. You are so good at conversation, why not read this book and have something else to add to your already sparkling repertoire!

Minerals, Critical Minerals, and the U.S. Economy National Academies Press

Minerals are part of virtually every product we use. Common examples include copper used in electrical wiring and titanium used to make airplane frames and paint pigments. The Information Age has ushered in a number of new mineral uses in a number of products including cell phones (e.g., tantalum) and liquid crystal displays (e.g., indium). For some minerals, such as the platinum group metals used to make catalytic converters in cars, there is no substitute. If the supply of any given mineral were to become restricted, consumers and sectors of the U.S. economy could be significantly affected. Risks to minerals supplies can include a sudden increase in demand or the possibility that natural ores can be exhausted or become too difficult to extract. Minerals are more vulnerable to supply restrictions if they come from a limited number of mines, mining companies, or nations. Baseline information on minerals is currently collected at the federal level, but no established methodology has existed to identify potentially critical minerals. This book develops such a methodology and suggests an enhanced federal initiative to collect and analyze the additional data needed to support this type of tool.

Commercial Motor Vehicle Driver Fatigue, Long-Term Health, and Highway Safety

Research Needs National Academies Press

There are approximately 4,000 fatalities in crashes involving trucks and buses in the United States each year. Though estimates are wide-ranging, possibly 10 to 20 percent of these crashes might have involved fatigued drivers. The stresses associated with their particular jobs (irregular schedules, etc.) and the lifestyle that many truck and bus drivers lead, puts them at substantial risk for insufficient sleep and for developing short- and long-term health problems. Commercial Motor Vehicle Driver Fatigue, Long-Term Health and Highway Safety assesses the state of knowledge about the relationship of such factors as hours of driving, hours on duty, and periods of rest to the fatigue experienced by truck and bus drivers while driving and the implications for the safe operation of their vehicles. This report evaluates the relationship of these factors to drivers' health over the longer term, and identifies improvements in data and research methods that can lead to better understanding in both areas.

The Science of Effective Mentorship in STEMM National Academies Press

Mentorship is a catalyst capable of unleashing one's potential for discovery, curiosity, and participation in STEMM and subsequently improving the training environment in which that STEMM potential is fostered. Mentoring relationships provide developmental spaces in which students' STEMM

skills are honed and pathways into STEMM fields can be discovered. Because mentorship can be so influential in shaping the future STEMM workforce, its occurrence should not be left to chance or idiosyncratic implementation. There is a gap between what we know about effective mentoring and how it is practiced in higher education. The Science of Effective Mentorship in STEMM studies mentoring programs and practices at the undergraduate and graduate levels. It explores the importance of mentorship, the science of mentoring relationships, mentorship of underrepresented students in STEMM, mentorship structures and behaviors, and institutional cultures that support mentorship. This report and its complementary interactive guide present insights on effective programs and practices that can be adopted and adapted by institutions, departments, and individual faculty members.

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FM 101 - Knuckleheads *CreateSpace*

This is the original FM (Field Manual) on Knuckleheads. It contains more than forty-five different knee slapping stories about my life in the army as an enlisted soldier, an ROTC cadet, and an officer through my first deployment to Iraq in 2003. In my twenty-five years of military service, I ran into all sorts of characters from all over the world and all walks of life. I feel honored to have known most of the people I met. So, what we have here is “mystory,” not history. The intent is to entertain, educate (loosely), or illuminate folks. I hope you enjoy my view of life!

Surrounded by Science

Learning Science in Informal Environments *National Academies Press*

Practitioners in informal science settings--museums, after-school programs, science and technology centers, media enterprises, libraries, aquariums, zoos, and botanical gardens--are interested in finding out what learning looks like, how to measure it, and what they can do to ensure that people of all ages, from different backgrounds and cultures, have a positive learning experience. Surrounded by Science: Learning Science in Informal Environments, is designed to make that task easier. Based on the National Research Council study, Learning Science in Informal Environments: People, Places, and Pursuits, this book is a tool that provides case studies, illustrative examples, and probing questions for practitioners. In short, this book makes valuable research accessible to those working in informal science: educators, museum professionals, university faculty, youth leaders, media specialists, publishers, broadcast journalists, and many others.

The Traffic World

The Techlash and Tech Crisis Communication *Emerald Group Publishing*

This book provides an in-depth analysis of the evolution of tech journalism. The emerging tech-backlash is a story of pendulum swings: we are currently in tech-dystopianism after a long period spent in tech-utopianism.

Guidance for the Description of Animal Research in Scientific Publications *National Academies Press*

The publication of research articles involving animal studies is central to many disciplines in science and biomedicine. Effective descriptions in such

publications enable researchers to interpret the data, evaluate and replicate findings, and move the science forward. Analyses of published studies with research animals have demonstrated numerous deficiencies in the reporting of details in research methods for animal studies. Considerable variation in the amount of information required by scientific publications and reported by authors undermines this basic scientific principle and results in the unnecessary use of animals and other resources in failed efforts to reproduce study results. Guidance for the Description of Animal Research in Scientific Publications outlines the information that should be included in scientific papers regarding the animal studies to ensure that the study can be replicated. The report urges journal editors to actively promote effective and ethical research by encouraging the provision of sufficient information. Examples of this information include: conditions of housing and husbandry, genetic nomenclature, microbial status, detailed experimental manipulations, and handling and use of pharmaceuticals. Inclusion of this information will enable assessment and interpretation of research findings and advancement of knowledge based on reproducible results.

Immigration Policy and the Search for Skilled Workers

Summary of a Workshop *National Academies Press*

The market for high-skilled workers is becoming increasingly global, as are the markets for knowledge and ideas. While high-skilled immigrants in the United States represent a much smaller proportion of the workforce than they do in countries such as Australia, Canada, and the United Kingdom, these immigrants have an important role in spurring innovation and economic growth in all countries and filling shortages in the domestic labor supply. This report summarizes the proceedings of a Fall 2014 workshop that focused on how immigration policy can be used to attract and retain foreign talent. Participants compared policies on encouraging migration and retention of skilled workers, attracting qualified foreign students and retaining them post-graduation, and input by states or provinces in immigration policies to add flexibility in countries with regional employment differences, among other topics. They also discussed how immigration policies have changed over time in response to undesired labor market outcomes and whether there was sufficient data to measure those outcomes.

Seeing Students Learn Science

Integrating Assessment and Instruction in the Classroom *National Academies Press*

Science educators in the United States are adapting to a new vision of how students learn science. Children are natural explorers and their observations and intuitions about the world around them are the foundation for science learning. Unfortunately, the way science has been taught in the United States has not always taken advantage of those attributes. Some students who successfully complete their K science classes have not really had the chance to "do" science for themselves in ways that harness their natural curiosity and understanding of the world around them. The introduction of the Next Generation Science Standards led many states, schools, and districts to change curricula, instruction, and professional development to align with the standards. Therefore existing assessments "whatever their purpose "cannot be used to measure the full range of activities and interactions happening in science classrooms that have adapted to these ideas because they were not designed to do so. Seeing Students Learn Science is meant to help educators improve their understanding of how students learn science and guide the adaptation of their instruction and approach to assessment. It includes examples of innovative assessment formats, ways to embed assessments in engaging classroom activities, and ideas for interpreting and using novel kinds of assessment information. It provides ideas and questions educators can use to reflect on what they can adapt right away and what they can work toward more gradually.