

# SEVENTY-SIXTH YEAR SCIENTIFIC AMERICAN

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## The True Role of Water Power By C. D. Wagner

**AFTER** 10 years of construction and a national drain on the coal and oil fields throughout the country, the door has been thrown open for "white coal" to serve industry and the homes by the signing of the water power development bill. The next water power of the country may be yours.

Fifty million horsepower comprises the total, both steam and water-generated, now in use in the United States. It is conservatively estimated that as much more can be developed by utilization of the water power resources. The Department of the Interior has placed the potential water power at 100,000,000 horsepower of which but 10,000,000 is now developed. This gives the country a spread of 90,000,000 horse of water power.

Assuming that a steam-produced horsepower generates daily for 32 hours throughout a period of twelve months requires the consumption of 100 and one-half tons of coal, the substitution of 100,000 horsepower from water should make an annual saving of 10,000,000 tons of fuel and avoid the increment of 1,000,000 bushels more. The economies of its use made use of our falling waters, would be tremendous, yet there is to service today that insatiable horsepower developed by hydroelectric plants.

It is not contended that water power can entirely take the place of coal. In some instances a substitution for "black coal" cannot be made, but in a replacement it will add greatly to the total, and drive the average cost per unit, not only in the work in the home but more extensively than at present and bring about much greater economy in the substitution of electricity for coal has done on some of the larger railroads.

But the power of our water can never completely replace the use of coal and oil for power purposes. While the new Federal legislation is a big forward step in itself conservation, the maximum possible hydroelectric energy of the nation is little more than the total amount which we now produce from coal and is about equal to the present total energy output of the country including all forms of energy. This means that the idea that when coal runs higher in fuel we may use the water power of the country as the source of energy, is, and must remain a dream. If all our potential water power were developed and every inch drop used, it would not supply our present energy demand. These hydroelectric energy may and should supplement coal, but can never entirely replace it as a source of energy. This probably is the strongest argument for efforts to increase the efficiency of our methods of burning coal, and to place at the disposal of the National combustion engine the

new source of petroleum fuels and new fuels of non-petroleum nature.

In this country the production of oil has already passed its peak, and the world as a whole is with it, a comparatively few years hence of declining importance as a power producer, according to experts. There are still large reserves of coal in this country, though the greater ones are in the distant West, and the coal-producing countries are still rich in coal reserves, but with the double price of coal, due in part at least to the increased cost of getting it out of the ground, reasonable prices will be on the steady rise. It is predicted, in the coming of power, coal will still be a coal and must be replaced. Therefore, it is asserted, the country which in future competition depends wholly or in great part on coal and oil power will be in a position of increasing disadvantage. On all these grounds the full development of our water power is something to which we must give attention.



The shaded portion in each circle indicates the developed percentage of the State; the unshaded portion that which remains to be developed. Its amount is made to compare or even to show total developed or potential horsepower for the several States as against each other, but merely to show how far each State has gone in the utilization of water resources as it has.

The extent to which the States of the Union have harnessed the power of their water

## Regarding the Propeller of a Destroyer

**THE** *Proctor* (United States) destroyer is an interesting subject for study on the standard propeller of the destroyer "Proctor," is the 1,000-horsepower dry dock, at Bathing in Mass. The propeller had been damaged by striking one of the tanks while in transit through the Canal. When made of the blades had been turned back through half of a circle. The blades were straightened and brought back to their original position. Cracks were visible, the broken tips of two blades were repaired by inserting ironing new metal into a mold at the end of the tips so that it fitted with the old metal, and the propeller was balanced and reground.

Remarks on this is a high-speed turbine propeller, transmitting heavy horse-power and attached to a light shaft, built of hollow or tube of sections in the required propeller would have set up a serious vibration. After the destroyer had gone to sea the commanding

officer reported that the propeller was performing very satisfactorily, and suggested the *Proctor* should be "a difficult repair well carried out."

## The Rate of Speed at Which Bacteria Travel

**WHEN** one observes by means of the ultra-microscope the germs traveling in a suspended drop of liquid one is frequently struck and amazed by the fact that the form of the trajectory differs according to the species, but also by the difference in the rapidity of travel, which is often very considerable. Some of these move almost lazily, while some travel with great agility in one direction or another, and still others cross the field of observation at such a rate of speed that they give the impression of the flight of an arrow. The average speed of such species of bacteria can be approximately calculated if one takes care to follow the course, in a suspended drop containing only a few germs, of a individual which crosses the field as

rapidly as possible along the line of the microscope, from one point to the opposite point on the circumference.

Mr. G. Bergwitz, the Director of the Institute of Bacteriology of the University of Bonn, in a publication the results of which he has made by studying staphylococci, bacilli, streptococci, and vibrios, has determined the speed at which the various species travel. He determined temperature to 20 degrees Centigrade, with richness of nutrient media, 24 hours old, and determined upon appropriate and afterwards permanently divided in the series of the germinal plate.

He found that the apparent average speed of motion is 15 centimeters per hour, but the actual speed corresponding to this is 1,000 centimeters per second, a 1.75 millimeters per minute or 60 centimeters per hour. However, these figures are deceptive of giving an idea of the distance traveled in a given time. It is to be observed that the apparent speed does not depend upon the actual speed, but upon the motion of the observer. Thus, the same organism at a distance of 40 meters at the rate of 20 meters per second or 175 kilometers per hour. The observer gives the rate of a single meter per second, which can be estimated by Mr. Bergwitz, he has found that there are four on the *S. proteus* and the *S. parvus*, but three on the *S. typhimurium* and the *S. dysenteriae*, and twelve on the *S. dysenteriae*.

Since all of these bacteria are provided with a number of cilia, while the vibrios have but a single one, the rapidity at which various move appears to have no connection with the number of their organs of locomotion.

# Scientific American Archive Online

**Jaimie Baron, Kristen Fuhs**



## **Scientific American Archive Online:**

*Scientific American* ,1897      **Scientific American Archive Online** Sciamarchive.Org Staff,WWW Sciamarchive Org,2001-01-01      Scientific American ,2008      Steampunk Film Robbie McAllister,2019-03-07 Steampunk Film A Critical Introduction is a concise and accessible overview of steampunk s indelible impact within film and acts as a case study for examining the ways with which genres hybridize and coalesce into new forms Since the beginning of the 21st century a series of high profile and big budget films have adopted steampunk identities to re imagine periods of industrial development into fantastical histories where future meets past By calling this growing mass cultural fetishism for anachronistic machines into question this book examines how a retro futuristic romanticism for technology powered by cogs pistons and steam engines has taken center stage in blockbuster cinema As the first monograph to consider cinema s unique relationship with steampunk it places this burgeoning genre in the context of ongoing debates within film theory each of which reflecting the movement s remarkable interest in reengineering historical technologies Rather than acting as a niche subculture Robbie McAllister argues that steampunk s proliferation in mainstream filmmaking reflects a desire to reassess contemporary relationships with technology and navigate the intense changes that the medium itself is experiencing in the 21st century

*The Ecology of American Noir* Katrina Younes,2025-04-07 This volume investigates the relationship between the conventions of noir fiction and film and its sub types in relation to environmental crises Dr Younes addresses questions that not only allow readers to re read early hardboiled literature and neo noir films but also help identify a new sub genre of noir and develop an ecocritical methodology eco noir This text traces the development of strategies of mapping urban blight and environmental deterioration in classic hardboiled fiction of the 1940s neo noir films of the 1970s and eco noir texts of the post millennial period Introducing the concept of eco noir as both a sub genre and fictional form as well as a methodology the volume develops a new way of understanding the relationship between noir and climate fiction texts Through a close reading of hardboiled neo noir and eco noir texts including those by Dashiell Hammett Raymond Chandler Robert Towne Kim Stanley Robinson and Jeff VanderMeer it asks and addresses the question how does each sub genre of noir map the noir atmosphere of the private investigator s natural setting in terms of environmental toxicity The Ecology of American Noir contributes to critical conversations in both noir and ecocritical scholarship making clear how a new understanding of noir as defined through environmental and atmospheric conditions invites readers viewers and scholars of the genre to generate meaningful dialogues about our decaying and deteriorating environment      **Queering Science Communication** Lindy A. Orthia,Tara Roberson,2024-11-12 A book on queer themes and science communication is timely if not well overdue LGBTIQ people have unique contributions to make and issues to meet through science communication So bringing queer and science communication together is an important step for queer protest liberation and visibility This collection examines the place of queer people within science communication and asks what it means for the field to queer science communication practice

theory and research agendas Written by leading names in the field it offers concrete examples for academics students and practitioners who strive to foster radical inclusivity and equity in science communication

**Exploring Psychology, Eighth Edition, In Modules** David G. Myers, 2010-07-08 Exploring Psychology Eighth Edition in Modules is the modular version of the 1 bestselling brief introduction to psychology David Myers s Exploring Psychology All the Myers hallmarks are here the captivating writing coverage based on the latest research helpful pedagogical support in a format that delivers the utmost in student accessibility and teaching flexibility

**Military Neuroscience and the Coming Age of Neurowarfare** Armin Krishnan, 2016-10-04 Krishnan describes military applications of neuroscience research and emerging neurotechnology with relevance to the conduct of armed conflict and law enforcement This work builds upon literature by scholars such as Moreno and Giordano and fills an existing gap not only in terms of reviewing available and future neurotechnologies and relevant applications but by discussing how the military pursuit of these technologies fits into the overall strategic context The first to sketch future neurowarfare by looking at its potentials as well as its inherent limitations this book s main theme is how military neuroscience will enhance and possibly transform both classical psychological operations and cyber warfare Its core argument is that nonlethal strategies and tactics could become central to warfare in the first half of the twenty first century This creates both humanitarian opportunities in making war less bloody and burdensome as well as some unprecedented threats and dangers in terms of preserving freedom of thought and will in a coming age where minds can be manipulated with great precision

*Racism as a Public Health Crisis* Georges C. Benjamin, Regina Davis Moss, Camara Phyllis Jones, 2022-06-30

Brighton Baby: A Revolutionary Organic Approach to Having an Extraordinary Child Roy Dittmann, 2012-10-30 Brighton Baby A Revolutionary Organic Approach to Having an Extraordinary Child The Complete Guide to Preconception Conception is about helping couples achieve optimal health mentally physically emotionally and spiritually before you conceive your future child Author and perinatal expert Roy Dittmann OMD MH takes couples on a journey that celebrates the power of love as the intangible blueprint of life Dr Dittmann exposes the dangers of conceiving in our toxic world and focuses couples on how to prepare body mind and spirit for the moment of conception Using integral wisdom Dr Dittmann helps couples go from overwhelm to taking practical steps to realize their goals of having an extraordinary child Brighton Baby is about the art and science of gifting the best of who we are to our future children It is about reducing human suffering by preventing subtle and overt birth defects before they occur It is about transforming the context inside of which we conceive and birth children Roy Dittmann OMD MH author Throughout the book Dr Dittmann turns the spotlight on the hidden dangers of heavy metals and other toxins genetically modified foods pesticides artificial sweeteners rancid oils antibiotics processed foods contaminated drinking water electrosmog and the pluses minuses of vaccines merging science and common sense to compel couples to take action today to prevent birth defects in their future child Brighton Baby is a call to action for couples to commit now to consciously preparing for your future child together

**Electronic Legal Deposit** Paul Gooding, Melissa Terras, 2020-10-02 Legal deposit libraries the national and academic institutions who systematically preserve our written cultural record have recently been mandated with expanding their collection practices to include digitised and born digital materials The regulations that govern electronic legal deposit often also prescribe how these materials can be accessed Although a growing international activity there has been little consideration of the impact of e legal deposit on the 21st Century library or on its present or future users This edited collection is a timely opportunity to bring together international authorities who are placed to explore the social institutional and user impacts of e legal deposit It uniquely provides a thorough overview of this worldwide issue at an important juncture in the history of library collections in our changing information landscape drawing on evidence gathered from real world case studies produced in collaboration with leading libraries researchers and practitioners Biblioteca Nacional de Mexico Bodleian Libraries British Library National Archives of Zimbabwe National Library of Scotland National Library of Sweden Chapters consider the viewpoint of a variety of stakeholders including library users researchers and publishers and provide overviews of the complex digital preservation and access issues that surround e legal deposit materials such as web archives and interactive media The book will be essential reading for practitioners and researchers in national and research libraries those developing digital library infrastructures and potential users of these collections but also those interested in the long term implications of how our digital collections are conceived regulated and used Electronic legal deposit is shaping our digital library collections but also their future use and this volume provides a rigorous account of its implementation and impact

The SAGE Handbook of Web History Niels Brügger, Ian Milligan, 2018-12-10 The Web has been with us now for almost 25 years An integral part of our social cultural and political lives new media is simply not that new anymore Despite the rapidly expanding archives of information at our disposal and the recent growth of interest in web history as a field of research the information available to us still far outstrips our understanding of how to interpret it The SAGE Handbook of Web History marks the first comprehensive review of this subject to date Its editors emphasise two main different forms of study the use of the web as an historical resource and the web as an object of study in its own right Bringing together all the existing knowledge of the field with an interdisciplinary focus and an international scope this is an incomparable resource for researchers and students alike Part One The Web and Historiography Part Two Theoretical and Methodological Reflections Part Three Technical and Structural Dimensions of Web History Part Four Platforms on the Web Part Five Web History and Users some Case Studies Part Six The Roads Ahead

*Science Journalism* Martin Angler, 2017-06-14 Science Journalism An Introduction gives wide ranging guidance on producing journalistic content about different areas of scientific research It provides a step by step guide to mastering the practical skills necessary for covering scientific stories and explaining the business behind the industry Martin W Angler an experienced science and technology journalist covers the main stages involved in getting an article written and published from choosing an idea structuring your pitch researching and

interviewing to writing effectively for magazines newspapers and online publications There are chapters dedicated to investigative reporting handling scientific data and explaining scientific practice and research findings to a non specialist audience Coverage in the chapters is supported by reading lists review questions and practical exercises The book also includes extensive interviews with established science journalists scholars and scientists that provide tips on building a career in science journalism address what makes a good reporter and discuss the current issues they face professionally The book concludes by laying out the numerous available routes into science journalism such as relevant writing programs fellowships awards and successful online science magazines For students of journalism and professional journalists at all levels this book offers an invaluable overview of contemporary science journalism with an emphasis on professional journalistic practice and success in the digital age

Clio Wired Roy Rosenzweig,2011 In these essays Rosenzweig pioneering historian and self proclaimed technorealist weighs the effect of new media digital technology and the Internet on recording researching and teaching history

**Library Journal** ,2001 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately

**Digital Marketing Expert Diploma (Master's level) - City of London College of Economics - 10 months - 100% online / self-paced** City of London College of Economics, Overview In this course you will learn all you need to know to become a Digital Marketing Expert As you surely know Digital Marketing Specialists are in high demand and well paid Content Digital Marketing Strategy Market Research Crowdsourcing Web Development and Design Writing for the Web Mobile Development Email Marketing Online Advertising Affiliate Marketing Search Engine Marketing Search Engine Optimisation PPC Advertising And much more Duration 10 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link

The ERIC Review ,1991 Provides information on programs research publications and services of ERIC as well as critical and current education information

Scientific American Science Desk Reference The Editors of Scientific American,2008-05-02 Who names newly discovered planets What exactly are black holes Where are there the most earthquakes When did the first Homo sapiens walk the earth Why is the night sky dark How does the fluoride in toothpaste prevent cavities Since 1845 Scientific American has answered questions and provided the best information available in all areas of science Now Scientific American is proud to present an accessible one volume reference covering all the sciences Whether you want to examine the tiniest microbes the properties of the earth s core or the farthest reaches of space this handy desk reference is the resource to turn to for the answers you need Over 500 biographies of key science figures Thousands of glossary terms Hundreds of useful Web sites Tables charts diagrams and illustrations Sidebars featuring fascinating facts mnemonic aids and quizzes Essays exploring ideas in depth

Tiger King: Murder, Mayhem and Madness Jaimie Baron,Kristen Fuhs,2021-11-28 The third volume in the

Docalogue series this book explores the significance of the documentary series Tiger King Murder Mayhem and Madness 2020 which became must see TV for a newly captive audience during the global Covid 19 pandemic The series a true crime tabloid spectacle about a murder for hire plot within the big cat trade prompts interesting questions about which documentaries become popular in particular moments and why However it also raises important questions related to the medium specificity of documentary in the streaming era as well as the ethics of both human and animal representation By combining five distinct perspectives on the Netflix documentary series this book offers a complex and cumulative discourse about Tiger King s significance in multiple areas including but not limited to animal studies queer theory genre studies labor relations and digital culture Students and scholars of film media television and cultural studies will find this book extremely valuable in understanding the significance of this larger than life true crime documentary series **Human Resource**

**Development** Eugene Sadler-Smith, 2021-10-13 Combining theoretical rigor practical relevance and pedagogical innovation Human Resource Development From Theory into Practice is an essential resource for students working towards a career in human resource development HRD human resource management HRM occupational and organizational psychology and related areas of business management and organization Key features Aligns with the CIPD Professional Standards and the CIPD s Level 7 Diploma in Learning and Development Covers all the basics in the fundamentals of HRD theory and practice as well as cutting edge topics such as the e learning hybrid learning neuroscience and learning learning ecosystems and the new learning organization science of learning Follows a unique framework based on the a distinction between micro HRD which zooms in on the fine detail meso and macro HRD which zooms out to look at the bigger picture Includes a rich array of research insights case studies and examples from a wide range of contexts Offers a variety of learning features including perspectives from practice and in their own words which help to bridge the gap between theory and practical application This up to date and authoritative textbook is accompanied by a comprehensive instructor s manual and PowerPoint slides to support lecturers in their teaching

## Whispering the Secrets of Language: An Emotional Quest through **Scientific American Archive Online**

In a digitally-driven earth where monitors reign great and immediate interaction drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases frequently go unheard. However, set within the pages of **Scientific American Archive Online** a interesting fictional treasure pulsing with fresh feelings, lies an extraordinary quest waiting to be undertaken. Penned by a skilled wordsmith, this enchanting opus encourages visitors on an introspective journey, gently unraveling the veiled truths and profound affect resonating within ab muscles cloth of each and every word. Within the mental depths with this touching evaluation, we will embark upon a sincere exploration of the book is key styles, dissect its captivating publishing fashion, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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