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The Craft of Scientific Presentations

GEMMA SUSAN

Critical Steps to Succeed and Critical Errors to Avoid Taylor & Francis
Science and technology have starring roles in a wide range of genres--science fiction, fantasy, thriller, mystery, and more. Unfortunately, many depictions of technical subjects in literature, film, and television are pure fiction. A basic understanding of biology, physics, engineering, and medicine will help you create more realistic stories that satisfy discerning readers. This book brings together scientists, physicians, engineers, and other experts to help you: • Understand the basic principles of science, technology, and medicine that are frequently featured in fiction. • Avoid common pitfalls and misconceptions to ensure technical accuracy. • Write realistic and compelling scientific elements that will captivate readers. • Brainstorm and develop new science- and technology-based story ideas. Whether writing about mutant monsters, rogue viruses, giant spaceships, or even murders and espionage, Putting the Science in Fiction will have something to help every writer craft better fiction. Putting the Science in Fiction collects articles from "Science in Sci-fi, Fact in Fantasy," Dan Koboldt's popular blog series for authors and fans of speculative fiction (dankoboldt.com/science-in-scifi). Each article discusses an element of sci-fi or fantasy with an expert in that field. Scientists, engineers, medical professionals, and others share their insights in order to debunk the myths, correct the misconceptions, and offer advice on getting the details right.
Explaining Research World Scientific
Ms. Frizzle introduces her students to scientific facts about global warming, sharing accessible information about climate change and ways that everyday kids can help to protect the environment.
Writing for Computer Science Cambridge University Press
This book is a comprehensive guide to scientific communication that has been used widely in courses and workshops as well as by individual scientists and other professionals since its first publication in 2002. This revision accounts for the many ways in which the globalization of research and the changing media landscape have altered scientific communication over the past decade. With an increased focus throughout on how research is communicated in industry, government, and non-profit centers as well as in academia, it now covers such topics as the opportunities and perils of online publishing, the need for translation skills, and the communication of scientific findings to the broader world, both directly through speaking and writing and through the filter of traditional and social media. It also offers advice for those whose research concerns controversial issues, such as climate change and emerging viruses, in which clear and accurate communication is

especially critical to the scientific community and the wider world.

The Magic School Bus and the Climate Challenge John Wiley & Sons

As a scientist, you are a professional writer: your career is built on successful proposals and papers. Success isn't defined by getting papers into print, but by getting them into the reader's consciousness. Writing Science is built upon the idea that successful science writing tells a story. It uses that insight to discuss how to write more effectively. Integrating lessons from other genres of writing with those from the author's years of experience as author, reviewer, and editor, the book shows scientists and students how to present their research in a way that is clear and that will maximize reader comprehension. The book takes an integrated approach, using the principles of story structure to discuss every aspect of successful science writing, from the overall structure of a paper or proposal to individual sections, paragraphs, sentences, and words. It begins by building core arguments, analyzing why some stories are engaging and memorable while others are quickly forgotten, and proceeds to the elements of story structure, showing how the structures scientists and researchers use in papers and proposals fit into classical models. The book targets the internal structure of a paper, explaining how to write clear and professional sections, paragraphs, and sentences in a way that is clear and compelling. The ideas within a paper should flow seamlessly, drawing readers along. The final section of the book deals with special challenges, such as how to discuss research limitations and how to write for the public. Writing Science is a much-needed guide to succeeding in modern science. Its insights and strategies will equip science students, scientists, and professionals across a wide range of scientific and technical fields with the tools needed to communicate effectively.

Or the Evening Redness in the West Oxford University Press

A complete update to a classic, respected resource Invaluable reference, supplying a comprehensive overview on how to undertake and present research

Writing Science Yale University Press

Written and extensively class tested with NSF/NIH support, this timely and useful text addresses a crucial need which is acknowledged in most universities and colleges. It is the need for students to learn to write in the context of their field of study; in this case science. Although numerous "how to" writing books have been published, few, if any, address the central pedagogical issues underlying the process of learning to think and write scientifically. The direct connection between this writing skill and that of critical thinking is developed with engaging style by the author, an English professor. Moriarty's book is an invaluable guide for both undergraduate and graduate science students. In the process of learning the specific requirements of organization demanded by scientific writing, students will develop strategies for thinking through their scientific research, well before they sit down to write. This instructive text will be useful to students who

need to satisfy a science writing proficiency requirement in the context of a science course, a course in technical writing, advanced composition, or writing for the profession.
Writing for Earth Scientists Oxford University Press
"Writing Science is built upon the idea that successful science writing tells a story, and it uses that insight to discuss how to write more effectively. Integrating lessons from other genres of writing and years of experience as author, reviewer, and editor, Joshua Schimel shows scientists and students how to present their research in a way that is clear and that will maximize reader comprehension ... Writing Science is a much-needed guide to succeeding in modern science. Its insights and strategies will equip science students, scientists, and professionals across a wide range of scientific and technical fields with the tools needed to communicate effectively and successfully in a competitive industry."--Back cover.
How to Write and Publish a Scientific Paper Penguin
Efficient Scientific Writing gives you simple-to-use tools for writing a text that works. It helps you avoid wasting time and effort due to inefficient writing, and to develop habits for reliably producing text when you need to. In an accessible and engaging format, this book delivers the definitive guide to writing better papers, faster.
A Step-by-Step Guide for the Biological and Medical Sciences Simon and Schuster
Scientific writing is often dry, wordy, and difficult to understand. But, as Anne E. Greene shows in Writing Science in Plain English,writers from all scientific disciplines can learn to produce clear, concise prose by mastering just a few simple principles. This short, focused guide presents a dozen such principles based on what readers need in order to understand complex information, including concrete subjects, strong verbs, consistent terms, and organized paragraphs. The author, a biologist and an experienced teacher of scientific writing, illustrates each principle with real-life examples of both good and bad writing and shows how to revise bad writing to make it clearer and more concise. She ends each chapter with practice exercises so that readers can come away with new writing skills after just one sitting. Writing Science in Plain English can help writers at all levels of their academic and professional careers—undergraduate students working on research reports, established scientists writing articles and grant proposals, or agency employees working to follow the Plain Writing Act. This essential resource is the perfect companion for all who seek to write science effectively.
Reading and Writing in Science Penguin
This book encompasses the entire range of writing skills that today's experimental scientist may need to employ. Chapters cover routine forms, such as laboratory notes, abstracts, and memoranda; dissertations; journal articles; and grant proposals. Robert Goldbort discusses how best to approach various writing tasks as well as how to deal with the everyday complexities that may get in the way of ideal practice--difficult

collaborators, experiments gone wrong, funding rejections. He underscores the importance of an ethical approach to science and scientific communication and insists on the necessity of full disclosure.

Get Started in Writing Science Fiction and Fantasy Scholastic Inc. Scientific and technological texts have not played a significant role in modern literary criticism. This applies to Classics, too, despite the fact that a large part of the field's extant texts deal with questions of medicine, mathematics, and natural philosophy. Focusing mostly on medical and mathematical texts, this collection aims at approaching ancient Greek science and its texts from the cross-disciplinary perspective of authorship. Among the questions addressed are: What is a scientific author? In what respect does scientific writing differ from 'literary' writing? How does the author present himself as an authoritative figure through his text? What strategies of trust do these authors employ? These and related questions cannot be discussed within the typical boundaries of modern academic disciplines,thus most of the sixteen authors, many of them leading experts in the fields of ancient science, bring a comparative perspective to their subjects. As a result, the collection not only offers a new approach to this vast area of ancient literature, thus effectively discovering new possibilities for literary criticism, it also reflects on our current forms of scientific and scholarly written communication.

Scientists Must Write Teach Yourself Explaining Research is the most comprehensive guide for communicating in the sciences. In this new edition, leading research communicator Dennis Meredith provides readers with the practical tools and techniques scientists need to reach their audiences effectively.

A Reader and Writer's Guide OUP USA Nature wants you dead. Not just you, but your children and everyone you have ever met and everyone they have ever met; in fact, everyone. It wants you to cough and sneeze and poop yourself into an early grave. It wants your blood vessels to burst and pustules to explode all over your body. And – until recently – it was really good at doing this... Covid-19 may be only the first of many modern pandemics. The subject of infection and how to fight it grows more urgent every day. How do pathogens cause disease? And what tools can we give our bodies to do battle? Dr John S. Tregoning has dedicated his career to answering these questions. Infectious uncovers fascinating success stories in immunology and virology, making this book not only a vital overview of infection, but also a hopeful story of ongoing human ingenuity.

Expert Advice for Writing with Authenticity in Science Fiction, Fantasy, & Other Genres Vintage Engage your students in scientific thinking across disciplines! Did you know that scientists spend more than half of their time reading and writing? Students who are science literate can analyze, present, and defend data – both orally and in writing. The updated edition of this bestseller offers strategies to link the new science standards with literacy

expectations, and specific ideas you can put to work right away. Features include: A discussion of how to use science to develop essential 21st century skills Instructional routines that help students become better writers Useful strategies for using complex scientific texts in the classroom Tools to monitor student progress through formative assessment Tips for high-stakes test preparation

52 Lessons in Academic Publishing Open Book Publishers

The detailed, practical, step-by-step advice in this user-friendly guide will help students and researchers to communicate their work more effectively through the written word. Covering all aspects of the writing process, this concise, accessible resource is critically acclaimed, well-structured, comprehensive, and entertaining. Self-help exercises and abundant examples from actual typescripts draw on the authors' extensive experience working both as researchers and with them. Whilst retaining the user-friendly and pragmatic style of earlier editions, this third edition has been updated and broadened to incorporate such timely topics as guidelines for successful international publication, ethical and legal issues including plagiarism and falsified data, electronic publication, and text-based talks and poster presentations. With advice applicable to many writing contexts in the majority of scientific disciplines, this book is a powerful tool for improving individual skills and an eminently suitable text for classroom courses or seminars.

How to Write More Easily and Effectively throughout Your Scientific Career Springer Science & Business Media

An authoritative how-to guide that explains every aspect of science proposal writing This fully revised edition of the authoritative guide to science proposal writing is an essential tool for any researcher embarking on a grant or thesis application. In accessible steps, the authors detail every stage of proposal writing, from conceiving and designing a project to analyzing data, synthesizing results, estimating a budget, and addressing reviewer comments and resubmitting. This new edition is updated to address changes and developments over the past decade, including identifying opportunities and navigating the challenging proposal funding environment. The only how-to book of its kind, it includes exercises to help readers stay on track as they develop their grant proposals and is designed for those in the physical, life, environmental, biomedical, and social sciences, as well as engineering.

Pm286 Wspc (Europe)

Put your science expertise and writing skills to work for you and make money! In this book, Sheeva Azma, a freelance science writer since 2013, shares her best advice for how to transition from science to science writing. If you're interested in freelance science writing but not sure how to get started, this book is for you. Learn about the basics of freelancing and how you can use your valuable research and critical thinking skills gained from your science background.This book will teach you all the basics you need to pursue a side hustle or even a career in freelance science writing. While the book may be

most helpful for freelance writers based in the United States, it was written for aspiring science freelancers everywhere.Anyone who wishes to put their science and writing skills to work for them will benefit from the sage advice provided in this book.

Write Better Papers, Faster John Wiley & Sons

The book helps scientists write papers for scientific journals. Using the key parts of typical scientific papers (Title, Abstract, Introduction, Visuals, Structure, and Conclusions), it shows through numerous examples, how to achieve the essential qualities required in scientific writing, namely being clear, concise, convincing, fluid, interesting, and organized. To enable the writer to assess whether these parts are well written from a reader's perspective, the book also offers practical metrics in the form of six checklists, and even an original Java application to assist in the evaluation. The focus of the book is on self- and reader-assisted assessment of the scientific journal article. It is also the first time that a book on scientific writing takes a human factor view of the reading task and the reader scientist. By revealing and addressing the physiological causes that create substantial reading difficulties, namely limited reader memory, attention span, and patience, the book guarantees that writing will gain the much coveted reader-centered quality. Contents:The Reading Toolkit:Require Less from MemorySustain Attention to Ensure Continuous ReadingReduce Reading TimeKeep the Reader MotivatedBridge the Knowledge GapSet the Reader's ExpectationsSet Progression Tracks for Fluid ReadingDetect Sentence Fluidity ProblemsControl Reading Energy ConsumptionPaper Structure and Purpose:Title: The Face of Your PaperAbstract: The Heart of Your PaperHeadings-Subheadings: The Skeleton of Your PaperIntroduction: The Hands of Your PaperIntroduction Part II: Popular TrapsVisuals: The Voice of Your PaperConclusions: The Smile of Your PaperAdditional Resources for the Avid Learner Readership: Students, professional scientists and researchers. Keywords:Scientific Writing;Technical Writing;Written Scientific Communication;Writing Skills;Scientific Journal Paper;Scientific Article;Peer-Review;Fluid Writing;Academic WritingKey Features:The book's chapters on how to achieve fluidity in writing are ground breaking. Fluidity in scientific writing is what enables readers to sail through a scientific paper without major reading accidentsThe metrics that cover 6 major parts of a scientific paper, and the software application that facilitate the self-evaluation are also ground breakingA chapter on online resources augments this second editionReviews: “This guide will be of use to many scientists, both new and familiar to the art of scientific writing. Consideration of the advice provided further develops the analytical reading skills required to critically review the work of others, as well as helping with the preparation of your own future articles.” Chemistry World

Writing for Science Oxford University Press

One of the key tasks every researcher must

perform is publishing their work, and most of this publication will occur in peer-reviewed journals. These publications are essential for promotion, recognition, and creating a dialogue with your colleagues around the world. Unfortunately, writing publication-quality manuscripts and guiding them through the peer-review process is a difficult, time-consuming, and often frustrating task. In this book, I'll teach you how to make the process easier based on what I've learned from more than 25 years of helping authors publish more than 6000 papers in some of the world's most prestigious journals (including Nature, Science, and PNAS). Writing for Science Journals explains the details of every section of a journal manuscript, including tips and tricks you won't find elsewhere about how to deal with the peculiar ways that journals work with authors and reviewers. I'll also deal with some of the implications of statistics and experimental design that you may have learned in school, but possibly not in an integrated form that guides you through the steps necessary to perform publishable research. In each chapter, I'll provide a list of key points that you can use as the basis for developing a learning plan. I've also provided links to relevant online resources via a Links page that is available only to purchasers of the book, and an errata and additions page (see below) that will provide a forum for expanding on the book until the 2nd edition is available.

The Oxford Book of Modern Science Writing

Yale University Press

As a scientist, you are a professional writer: your career is built on successful proposals and papers. Success isn't defined by getting papers into print, but by getting them into the reader's consciousness. Writing Science is built upon the idea that successful science writing tells a story. It uses that insight to discuss how to write more effectively. Integrating lessons from other genres of writing with those from the author's years of experience as author, reviewer, and editor, the book shows scientists and students how to present their research in a way that is clear and that will maximize reader comprehension. The book takes an integrated approach, using the principles of story structure to discuss every aspect of successful science writing, from the overall structure of a paper or proposal to individual sections, paragraphs, sentences, and words. It begins by building core arguments, analyzing why some stories are engaging and memorable while others are quickly forgotten, and proceeds to the elements of story structure, showing how the structures scientists and researchers use in papers and proposals fit into classical models. The book targets the internal structure of a paper, explaining how to write clear and professional sections, paragraphs, and sentences in a way that is clear and compelling. The ideas within a paper should flow seamlessly, drawing readers along. The final section of the book deals with special challenges, such as how to discuss research limitations and how to write for the public. Writing Science is a much-needed guide to succeeding in modern science. Its insights and strategies will equip science students,

scientists, and professionals across a wide range of scientific and technical fields with the tools needed to communicate effectively.

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