

Writing a Paper**

By George M. Whitesides*

1. What is a Scientific Paper?

A paper is an organized description of hypotheses, data and conclusions, intended to instruct the reader. Papers are a central part of research. If your research does not generate papers, it might just as well not have been done. "Interesting and unpublished" is equivalent to "non-existent".

Realize that your objective in research is to formulate and test hypotheses, to draw conclusions from these tests, and to teach these conclusions to others. Your objective is not to "collect data".

A paper is not just an archival device for storing a completed research program; it is also a structure for planning your research in progress. If you clearly understand the purpose and form of a paper, it can be immensely useful to you in organizing and conducting your research. A good outline for the paper is also a good plan for the research program. You should write and rewrite these plans/outlines throughout the course of the research. At the beginning, you will have mostly plan; at the end, mostly outline. The continuous effort to understand, analyze, summarize, and reformulate hypotheses on paper will be immensely more efficient for you than a process in which you collect data and only start to organize them when their collection is "complete".

2. Outlines

2.1. The Reason for Outlines

I emphasize the central place of an outline in writing papers, preparing seminars, and planning research. I especially believe that for you, and for me, it is most efficient to write papers from outlines. An *outline* is a written plan of the organization of a paper, including the data on which it rests. You should, in fact, think of an outline as a carefully organized and presented set of data, with attendant objectives, hypotheses, and conclusions, rather than an outline of text.

An outline itself contains little text. If you and I can agree on the details of the outline (that is, on the data and organization), the supporting text can be assembled fairly easily. If we

do not agree on the outline, any text is useless. Much of the time in writing a paper goes into the text; most of the thought goes into the organization of the data and into the analysis. It can be relatively efficient in time to go through several (even many) cycles of an outline before beginning to write text; writing many versions of the full text of a paper is slow.

All writing that I do—papers, reports, proposals (and, of course, slides for seminars)—I do from outlines. I urge you to learn how to use them as well.

2.2. How Should You Construct an Outline?

The classical approach is to start with a blank piece of paper, and write down, in any order, all important ideas that occur to you concerning the paper. Ask yourself the obvious questions: "Why did I do this work?"; "What does it mean?"; "What hypotheses did I mean to test?"; "What ones did I actually test?"; "What were the results? Did the work yield a new method of compound? What?"; "What measurements did I make?"; "What compounds? How were they characterized?"; Sketch possible equations, figures, and schemes. It is essential to try to get the major ideas. If you start the research to test one hypothesis, and decide, when you see what you have, that the data really seem to test some other hypothesis better, don't worry. Write them both down, and pick the best combinations of hypotheses, objectives, and data. Often the objectives of a paper when it is finished are different from those used to justify starting the work. Much of good science is opportunistic and revisionist.

When you have written down what you can, start with another piece of paper and try to organize the jumble of the first one. Sort all of your ideas into three major heaps (1-3).

1. Introduction

Why did I do the work? What were the central motivations and hypotheses?

2. Results and Discussion

What were the results? How were compounds made and characterized? What was measured?

Writing A Proper Paper

John Ruskin



Writing A Proper Paper:

The Good Paper Lotte Rienecker, Peter Stray Jørgensen, Signe Skov, 2013 in Danish higher education Writing in English: A Guide for Advanced Learners Dirk Siepmann, John D. Gallagher, Michael Hannay, Mike Hannay, Lachlan Mackenzie, 2022-03-07 This book offers practical advice and guidance to German speaking undergraduates and academics who aspire to write in English It also provides valuable assistance to editors examiners and teachers who conduct English courses for intermediate or advanced students It consists of four modules and is rounded off with a subject index and a glossary Making extensive use of authentic texts the authors adopt a contrastive approach and focus on the major problems encountered by Germans writing in English This third edition has been thoroughly revised updated and expanded to include among other things advice on how to use new Internet technology

The Basics of Media Writing Scott A. Kuehn, Andrew Lingwall, 2016-12-08 The Basics of Media Writing A Strategic Approach helps readers develop the essential writing skills and professional habits needed to succeed in 21st century media careers This research driven strategy based media writing textbook digs deeply into how media professionals think and write in journalism public relations advertising and other forms of strategic communication Authors Scott A Kuehn and Andrew Lingwall have created two comprehensive writing models to help students overcome their problems in finding and developing story topics by giving them starting points to begin writing The Professional Strategy Triangle model shows students how to think critically about the audience the situation and the message before starting a news story or persuasive piece and the FAJA four point model asks students a series of questions about their story type Fact Analysis Judgment or Action to guide them to the right angle or organizational structure for their message Rooted in classical rhetorical methods this step by step technique enables readers to strategically approach each writing task no matter the format

Teaching Academic Writing in European Higher Education Lennart Björk, Gerd Bräuer, L. Rienecker, Peter Stray Jørgensen, 2005-12-30 DAVID R RUSSELL English Department of Iowa State University U S A I was fortunate to attend as a visitor from the U S the first European Association for the Teaching of Academic Writing EATAW conference in 2001 at Groningen I was struck by the similarities in the challenges higher education faces on both sides of the Atlantic in terms of developing students academic writing and students learning through writing It is indeed an international problem But I was equally struck by the profound differences in responding to these challenges among institutions disciplines and even within disciplines The essays in this extraordinary volume address a growing demand for help with academic writing on the part of students and academic staff alike And they do so in ways that bring fresh approaches not only to Europeans who have only recently begun to study academic writing but also to researchers and academic staff in the U S where we have a century old tradition of attention to the problem but are much in need of these fresh approaches Academic writing has become a problem in higher education all around the world because higher education sits smack between two contradictory pressures On one end far more students and far more diverse students come streaming into

higher education bringing in a far greater diversity of linguistic resources often interpreted as standards are falling as Frank Haacke Tente point out *The Bulletin of Pharmacy* ,1918 Practical Letter Writing Henry Thomas Loomis,1908 *The Works of John Ruskin: Early prose writing* John Ruskin,1903 Volume 1 35 works Volume 36 37 letters Volume 38 provides an extensive bibliography of Ruskin s writings and a catalogue of his drawings with corrections to earlier volumes in George Allen s Library Edition of the Works of John Ruskin Volume 39 general index **Literary Digest: a Repository of Contemporaneous Thought and Research as Presented in the Periodical Literature of the World** Edward Jewitt Wheeler,Isaac Kaufman Funk,William Seaver Woods,1921 **Handbook of Quality-standard Papers** American Writing Paper Company,1922 *The American Exporter* ,1920 **The Delineator** R. S. O'Loughlin,H. F. Montgomery,Charles Dwyer,1906 Issue for Oct 1894 has features articles on Mount Holyoke College and Millinery as an employment for women Management Engineering Leon Pratt Alford,1923 Includes section Book reviews Journal of Proceedings and Addresses of the Annual Meeting National Education Association of the United States,1908 **Addresses and Proceedings - National Education Association of the United States** National Education Association of the United States,1908 Vols for 1866 70 include Proceedings of the American Normal School Association 1866 69 include Proceedings of the National Association of School Superintendents 1870 includes Addresses and journal of proceedings of the Central College Association **Manuscript Writing and Lettering** Educational Expert,1918 *Methods, Aids and Devices for Teachers ...* Walter Julius Beecher,Grace B. Faxon,1916 The Literary Digest ,1914 Country Life ,1914 **The Southeastern Reporter** ,1898 **Knight's American Mechanical Dictionary** Edward Henry Knight,1884

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