How Knowledge is Made in Science

Primary Literature

- Scientists Conduct Research
- Present at Conference
- Write Scientific Paper
- Published in Conference Proceedings
- Published in Scientific Journal
- Peer Review

Secondary Literature

- Senior Scientists write review articles/books synthesising primary literature

Tertiary Literature

- Journalists/Science Communicators write for popular science journals/articles on internet/books for public
- Extension Scientists take to users, e.g. as grower blueprints, trade journals

Scientific Community

Wider Community

All research is based on previous primary research or reviews on the topic.
information that have developed to facilitate this research.

Your problem should be written for readers who are not familiar with your

must keep in each case

that information is directed to whom it is correct, and what form it

knowledge of information are exchanged via the various channels, to whom

covered party or costly to electron form. Tell your readers what kinds of

needs of communication and note any sources or briefing agents that have

eds in your read communicate. Include both within and spoken then-

list as examples that also focus on broad areas in your every, and with whom

licensed by professional associations. Unwritten agenda, database, discussion

 communicating in your community include the names of the most important

developed in your community include the discussion of the discussion practices that have

nected in figure 2. Your goal is to describe the discussion practices that have

are profile of communication patterns in your research communities. 3.5-

3. Use the research you've conducted in Activity 1 and 2 as the basis for a writ-

3. discussed in Activity 3

authors for the class in an oral presentation, or to present them in writing as


different subheadings. Your instructor may ask you to summarize your

even more than one person. Professional if your group includes students

one of more numbers of the find to conduct the interviews, feel free to do in-

and develop a set of questions, and make for

adding questions in your field. If you are working with a group, decide together on

Courses, professional conferences, lecture papers, online forums, and

Step 2: identify the most recent

heuristics of professional practices. Participating in written discussion? Your in-

reaching an article, reading or selecting sources, finding others of substantial, review-

thesis (or similar) draft. Writing the paper, drafting parts of a report of proposal,

the way they turned written the paper, the paper, or each chapter, or indeed the way in which two

steps in the field or concepts of the field. With whom do the

The following activities are designed to help you begin to investigate the commun-

work after on what others in your field

nction channels in your research community. Your instructor may ask you to


Activities and Assignments


Chapter 2: Forms of Communication in Science

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et or specialized are these topics?

C. Suppose: What topics or kinds of topics does the journal cover? How gen-

erally are the topics covered?

D. What features, educational, or other features, do they have? Are they primarily research papers, policy papers, resource papers, or some combination of these?

E. Who are the intended readers? What types of readers or levels of expertise are the resources intended for?

F. Whatedar resource has this journal? Whose research is reported there?

G. What are the elements of communication?

1. What is the purpose of the journal? What is the audience of the journal? What is the purpose of the journal? What is the audience of the journal?

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H. What are the elements of electronic distribution in the journal?

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FIGURE 2.5  Map of the field of chemistry by Amy Haw-meei Yap. Student sample.