



Structures of Scientific Collaboration (Inside Technology)

Wesley Shrum

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Collaboration among organizations is rapidly becoming common in scientific research as globalization and new communication technologies make it possible for researchers from different locations and institutions to work together on common projects. These scientific and technological collaborations are part of a general trend toward more fluid, flexible, and temporary organizational arrangements, but they have received very limited scholarly attention. *Structures of Scientific Collaboration* is the first study to examine multi-organizational collaboration systematically, drawing on a database of 53 collaborations documented for the Center for History of Physics of the American Institute of Physics. By integrating quantitative sociological analyses with detailed case histories, Shrum, Genuth, and Chompalov pioneer a new and truly interdisciplinary method for the study of science and technology. Scientists undertake multi-organizational collaborations because individual institutions often lack sufficient resources--including the latest technology--to achieve a given research objective. The authors find that collaborative research depends on both technology and bureaucracy; scientists claim to abhor bureaucracy, but most collaborations use it constructively to achieve their goals. The book analyzes the structural elements of collaboration (among them formation, size and duration, organization, technological practices, and participant experiences) and the relationships among them. The authors find that trust, though viewed as positive, is not necessarily associated with successful projects; indeed, the formal structures of bureaucracy reduce the need for high levels of trust--and make possible the independence so valued by participating scientists. Wesley Shrum is Professor of Sociology at Louisiana State University and longtime Secretary of the Society for Social Studies of Science (4S). Joel Genuth, a former Project Historian at the American Institute of Physics, teaches mathematics to incarcerated juveniles at the Hampshire Educational Collaborative in Massachusetts. Ivan Chompalov is Assistant Professor of Sociology at Edinboro University of Pennsylvania.

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