NEWSLETTER OF THE AMERICAN SOCIOLOGICAL ASSOCIATION SECTION ON

SCIENCE, KNOWLEDGE and TECHNOLOGY

Summer, 1989

The ballots have been counted in the section election. Thanks to all those who were willing to serve as candidates and to Ron Anderson who tabulated the results. Those elected were:

Chair: Henry Etzkowitz
Chair-Elect: Susan E. Cozzens
Secretary-Treasurer: H. Gil Peach
Council: Mary Frank Fox
Tom Gieryn
Willie Pearson, Jr.
Judith A. Perrolle
James C. Petersen
William A. Snizek
Student Council member: Kathy Slobin

The section had 334 members as of 4/19/89. There will be a SKAT information table near Registration at the ASA meeting from 10:30-12:30 on Thursday, August 10 to recruit new members.

In response to our earlier request for course outlines, the section has received a fascinating collection of course syllabi, reflecting a diverse range of specializations. At the SKAT business meeting in San Francisco, there will be a discussion of whether or not we should work toward publication of a syllabi set through the ASA Teaching Resources Center. If you would like to work on such a project, be sure to attend the business meeting or indicate your interest to the section chair. In the meantime, the SKAT newsletter will publish some selected course outlines. The center section of this newsletter contains the first two-thirds of Tom Gieryn's excellent and most comprehensive survey of the sociology of science. We will publish the remainder of this course outline in the next issue of the newsletter along with a more specialized course syllabus. Thanks to Tom for permitting the newsletter to print this course outline.

Items for the newsletter should be sent to:

Jim Petersen
SKAT Newsletter
Department of Sociology
Western Michigan University
Kalamazoo, MI 49008
Internet address: PETERSEN@GW.WMICH.EDU

ASA Annual Meeting - A Welcome from the Chair:

Utilizing the A.S.A. format whereby ad-hoc and special groups may hold sessions during open time periods, a panel discussion of needed research on women in science has been arranged for the evening preceding our official section day. Last year's panel on research funding occasioned a lively discussion and provided support and legitimation for the new Science, Technology and Society program at NSF. It is expected that this year's panel featuring some of our leading scholars on gender and science will generate a similar response to NSF's new research initiative on the role of women in science and engineering. We appear to be evolving a tradition of beginning our section activities with a session to highlight important policy issues and encourage the relationship of our members to funding agencies.

Both regular sessions this year offer contributed papers on two core themes of our section: the sociology of knowledge and the relations among science, technology and society. Instead of reading their papers for 20 minutes, presenters have been asked to talk 15 minutes from overhead slides outlining their ideas. Two discussants have been recruited for each session to give their perspectives on the topic as well as the papers. As usual, participants can make their written papers available at the meetings through A.S.A.

A Council meeting will be held at a very early hour. A number of roundtables have been scheduled prior to the business meeting to report on research in progress. Finally, a reception has been scheduled to close section day. In addition to the activities of our section, various other sessions can be found in the program that focus on science, technology and knowledge issues. I look forward to beginning our section activities with you in Continental Parlor 9 at 8:30 p.m., Thursday, August 10th.

--Henry Etzkowitz

SKAT activities at the San Francisco ASA meeting begin on Thursday, August 10. From 8:30-10:20 p.m. in Continental Parlor 9 there will be a special session on **Women in Science: Needed Research**. Participants include:

Organizer: Henry Etzkowitz, SUNY Purchase and Center for Science and Technology Policy, Rensselaer Polytechnic Institute

Presider: Jim Beniger, Annenberg School, University of Southern California

Panel Members:

Pnina Abir-Am, History of Science, Harvard
Mary Frank Fox, Sociology, Penn State University
Carol Kemelgor, SUNY-Purchase
Scott Long, Sociology, Washington State University
Phyllis Moen, Sociology Program, National Science Foundation
Lynn Mulkay, Sociology, Hofstra
Lois Peters, Management, Rensselaer Polytechnic Institute
Peter Stein, William Patterson College
Harriet Zuckerman, Sociology, Columbia

SOCIOLOGY OF SCIENCE: A SURVEY

Instructor: Thomas F. Gieryn
Department of Sociology and Program on Science, Technology & Society
Ballantine Hall 744, Indiana University
Bloomington, Indiana 47405
Phone: (812) 855-2950 or messages at 855-4127
Bitnet: gieryn@iubacs

SYNOPSIS

This course surveys the literature in the sociology of science. Our destination is an understanding of science as a fundamental activity of modern societies; our vehicle is the full range of sociological studies of science and its place in the social world. We shall sacrifice depth for breadth: the topics are many, but the time given to each is short.

The survey divides into three parts, which correspond to chronological changes in the problems, theories and methods pursued by sociologists of science. The specialty began with a structural-functional orientation, highlighted by foundational works of Robert Merton, and focused on the question: **what is the social structural organization of the scientific community?** Beginning in the early 1970s, the field began its first turn away from structural-functional concerns by using relativist epistemologies and constructivist social theories to make knowledge-production the principled focus of attention: **what are the social processes through which scientific knowledge is constructed?** More recently, sociologists of science have returned to questions that animated some of the earliest work in the field, but with fresh conceptual tools: **what is the relationship of "science" to political, economic and cultural contexts of which it is a part?** No theoretical orientation or methodological style has yet ascended as the dominant mode for answering this question.

REQUIREMENTS

1. Attendance at all class meetings. Although I shall lecture at each meeting, students are expected to prepare for class by studying the assigned readings.

2. A take-home, open-book midterm examination. Students will choose from a set of essay questions that offer an opportunity to display a grasp of the literature in the sociology of science. Careful review of lecture notes and assigned readings is the essential preparation for this exam. The questions will be distributed on Tuesday, March 14; they are due on Thursday, March 16. The midterm will comprise 50% of the final course grade.

3. A in-class final examination. Students will again be asked to choose several essay questions that evaluate an ability to synthesize the diversity of problems and perspectives considered in the lectures and assigned readings. The date and time for the examination will be announced later. The final examination will comprise 50% of the final course grade.

4. Graduate students may substitute a 10-15 page term paper for either the midterm or final examination, after approval from the instructor.

ORIENTATION TO THE FIELD

The sociology of science has grown and changed dramatically in the half-century that we shall review. Students who have no background in sociology of science or in the related field of science, technology and society, might want to look at some of the following efforts at stock-taking. Some entries are explicit review articles, others are edited collections designed to show the range of literature in the specialty, still others are introductory textbooks. These are arranged in a reverse chronological way, and several of them (marked R) have been placed on reserve at Uris Library.

Daryl Chubin and Ellen Chu (eds.), Science Off the Pedestal (1989)
Ronald N. Giere, Explaining Science: A Cognitive Approach (1988) Chs. 1 and 2
Steve Woolgar, Science: The Very Idea (1988) (R)
Steven Yearley, Science, Technology and Social Change (1988)
Harriet Zuckerman, "The Sociology of Science" in Neil Smelser (ed.), Handbook of Sociology (1988) Chapter 16. (R)
Barry Barnes, About Science (1985)
John Ziman, An Introduction to Science Studies (1985)
Daryl E. Chubin, Sociology of Sciences: Annotated Bibliography on Invisible Colleges (1983)
H. M. Collins, "The Sociology of Scientific Knowledge: Studies of Contemporary Science" Annual Review of Sociology 9(1983), 265-85
Randall Collins and Sal Restivo, "Development, Diversity and Conflict in the Sociology of Science" The Sociological Quarterly 24(1983), 185-200.
David Edge, "Is There Too Much Sociology of Science?" Isis 74(1983), 250-6.
Karin D. Knorr-Cetina and Michael Mulkay, "Emerging Principles in Social Studies of Science" in their Science Observed (1983) Chapter 1 (R)
Henrika Kuklick, "The Sociology of Knowledge: Retrospect and Prospect" Annual Review of Sociology 9(1983), 287-310
Barry Barnes and David Edge (eds.), Science in Context (1982) (R)
Steve Shapin, "History of Science and Its Sociological Reconstruction" History of Science 9(1982), 157-211.
Sal Restivo, "Some Perspectives in Contemporary Sociology of Science" Science, Technology and Human Values 6(1981), 22-30.
Jerry Gaston, "Sociology of Science and Technology" in Paul Durbin (ed.), A Guide to the Culture of Science, Technology and Medicine (1980) Pp. 473-90.
Michael Mulkay, "Sociology of Science in the West" Current Sociology 28(1980), 1-184. (R)
Michael Mulkay, Science and the Sociology of Knowledge (1979)
Stuart Blume, "Sociology of Sciences and Sociologies of Science" in Blume (ed.), Perspectives in the Sociology of Science (1977) Pp. 1-20

Ina Spiegel-Rosing and Derek Price (eds.), Science, Technology and Society (1977)
Joseph Ben-David and Teresa Sullivan, "The Sociology of Science" Annual Review of Sociology 1(1975), 203-22.
Jonathan Cole and Stephen Cole, "The Sociology of Science" in their Social Stratification in Science (1973) Ch. 2
Nicholas Mullins, Science: Some Sociological Perspectives (1973)
Barry Barnes (ed.), Sociology of Science (1972)
Bernard Barber, "The Sociology of Science" International Encyclopedia of the Social Sciences Vol. 14, pp. 92-100. (1968)
Diana Crane, "Approaches to the Sociology of Science" in her Invisible Colleges (1967) Pp. 3-11.
Bernard Barber and Walter Hirsh (eds.), The Sociology of Science (1962)
Robert K. Merton, "The Neglect of the Sociology of Science" in his The Sociology of Science (1973) Ch. 10 [Original 1952] (R)

The following journals regularly publish articles of interest to the sociology of science:

Social Studies of Science (began as: Science Studies)
Science Technology and Human Values (this is now the official journal of the Society for Social Studies of Science; as such, it supercedes earlier 4S publications: Science and Technology Studies, 4S Review, 4S Newsletter)
Sociology of the Sciences Yearbook
Knowledge and Society: Studies in the Sociology of Science, Past and Present
Scientometrics
Issues in Science and Technology (published by the National Academy of Sciences)
Isis (history of science)
Science in Context
Minerva
Science (published by the American Association for the Advancement of Science)
Nature (published by the British Association for the Advancement of Science)
Scientific American
Knowledge: Creation, Diffusion, Utilization
Technology and Culture
Bulletin of Science, Technology and Society

BOOKS ORDERED

The following books have been ordered for your purchase at local bookstores. Each is also available on reserve at Uris Library.

Barry Barnes and David Edge (eds.), Science in Context (MIT Press, 1982) paperback
W. Bijker, T. Pinch, and T. Hughes (eds.), The Social Construction of Technological Systems (MIT Press, 1987) clothbound OPTIONAL

William Broad and Nicholas Wade, Betrayers of the Truth (Simon and Schuster, 1983) paper
David Dickson, The New Politics of Science (Univ. of Chicago Press, 1988) paper
Warren O. Hagstrom, The Scientific Community (Southern Illinois Univ. Press, 1975) paper
K. Knorr-Cetina and M. Mulkay (eds.), Science Observed (Sage, 1983) paper
Thomas Kuhn, The Structure of Scientific Revolutions (Univ. of Chicago Press, 2d ed., 1970) paper
Bruno Latour, Science in Action (Harvard Univ. Press, 1987) paper
Robert K. Merton, The Sociology of Science (Univ. of Chicago Press, 1979) paper

LECTURE TOPICS AND READING ASSIGNMENTS

Items preceded by an * are required readings; all are available on reserve at Uris Library. Many of the required readings will be found in the books ordered for your purchase. Non-required readings are likely to be discussed in lectures. Suffice it to say: the more items you read, the better you will appreciate the lectures and the easier you will find the examinations.

January 24: A Tourists' Map of the Sociology of Science

PART A. STRUCTURE AND FUNCTIONING OF THE SCIENTIFIC COMMUNITY

January 26: The Normative Structure of Science

*Robert K. Merton, "The Normative Structure of Science" in his The Sociology of Science (1973) Chapter 13
*Robert K. Merton, "The Ambivalence of Science" in his The Sociology of Science (1973) Chapter 18
Richard J. Wunderlich, "The Scientific Ethos: A Clarification" British Journal of Sociology 25(1974), 373-7.

January 31: Criticizing CUDOS

S. B. Barnes and R.G.A. Dolby, "The Scientific Ethos: A Deviant View" European Journal of Sociology 11(1970), 3-25
Marlan Blisset, Politics in Science (1972) Pp. 65-89
Ian Mitroff, "Norms and Counternorms in a Select Group of Apollo Moon Scientists: A Case Study in the Ambivalence of Scientists" American Sociological Review 39(1974), 579-95
Michael J. Mulkay, "Some Aspects of Cultural Growth in the Natural Sciences" Social Research 36(1969), 22-52
*Michael J. Mulkay, "Norms and Ideology in Science" Social Science Information 15(1976), 637-56
Michael J. Mulkay, "Interpretation and the Use of Rules: The Case of the Norms of Science" in T.F. Gieryn (ed.), Science and Social Structure (1980) Pp. 111-25.
Nico Stehr, "The Ethos of Science Revisited: Social and Cognitive Norms" Sociological Inquiry 48(1978), 172-96

John R. Sutton, "Organizational Autonomy and Professional Norms in Science: A Case Study of Lawrence Livermore Laboratory" Social Studies of Science 14(1984), 197-224

February 2: Deviance and Misbehavior in Science

Nachman Ben-Yehuda, Deviance and Moral Boundaries (1985) Chs. 4 & 5
Daryl Chubin, "Allocating Credit and Blame in Science" Science, Technology and Human Values 13(1988), 53-63
*William Broad and Nicholas Wade, Betrayers of the Truth (1982)
Daryl E. Chubin, "Research Malpractice" BioScience 35(1985), 80-89 [reprinted as Ch. 8 of Chubin and Chu (eds.), Science Off the Pedestal (1989)]
Thomas F. Gieryn and Anne Figert, "Scientists Protect Their Cognitive Authority: The Status Degradation Ceremony of Sir Cyril Burt" Sociology of the Science Yearbook X (1986) Pp. 67-86
Trevor Pinch, "Normal Explanations of the Paranormal: The Demarcation Problem and Fraud in Parapsychology" Social Studies of Science 9(1979), 329-48
Walter Stewart and Ned Feder, "The Integrity of the Scientific Literature" Nature 325(15 January 1987), 207-14
*Harriet Zuckerman, "Deviant Behavior and Social Control in Science" in E. Sagarin (ed.), Deviance and Social Change (1977) Pp. 87-138

February 7: Social Stratification of the Scientific Community

Paul Allison and John Stewart, "Productivity Differences among Scientists: Evidence for Accumulated Advantage" American Sociological Review 39(1974), 596-606
Jonathan Cole and Stephen Cole, Social Stratification in Science (1973) Ch. 8
Stephen Cole, "Age and Scientific Performance" American Journal of Sociology 84(1979), 958-77
Stephen Cole, L. Rubin and J. Cole, "Peer Review and the Support of Science" Scientific American 237(Oct. 1977), 34-41
*Mary Frank Fox, "Publication Productivity among Scientists: A Critical Review" Social Studies of Science 13(1983), 285-305
Warren Hagstrom, The Scientific Community (1965) Chs. 1-2 [excerpt in B. Barnes and D. Edge, Science in Context (1982) Ch. 1]
Patrick Horan, "Is Status-Attainment Research A-Theoretical?" American Sociological Review 43(1978), 534-41
*Robert K. Merton, "The Matthew Effect in Science" in his The Sociology of Science (1973) Ch. 20
*Robert K. Merton and Harriet Zuckerman, "Institutionalized Patterns of Evaluation in Science" in Merton, The Sociology of Science (1973) Ch. 21

February 9: Women in Science as Strategic Research Site

Jonathan Cole, Fair Science: Women in the Scientific Community (1979)
*Jonathan R. Cole and Harriet Zuckerman, "Marriage, Motherhood and Women's Research Performance in Science" Scientific American 256(1987), 119-25
Evelyn Fox Keller, Reflections on Gender and Science (1983)
Barbara Reskin, "Sex Differentiation and the Social Organization of Science" Sociological Inquiry 48(1978), 6-37
Margaret Rossiter, Women Scientists in America (1982)
Harriet Zuckerman, "Persistence and Change in the Careers of American Men and Women Scientists and Engineers: A Review of Current Research" in Linda S. Dix (ed.), Women: Their Underrepresetation and Career Differentials in Science and Engineering (1987) Pp. 123-56
Harriet Zuckerman and Jonathan Cole, "Women in American Science" Minerva 13(1975), 82-102

February 14: Analysis of Scientific Specialties I: Accomplishments

February 16: Scientific Specialties II: Failures and Limitations

Alberto Cambrosio and Peter Keating, "The Disciplinary Stake: The Case of Chronobiology" Social Studies of Science 13(1983), 323-53
Donald Campbell, "Ethnocentrism of Disciplines and the Fish-Scale Model of Omniscience" in M. and C.W. Sherif (eds.), Interdisciplinary Relationships in the Social Sciences (1969) Pp. 328-48
Daryn Chubin, "The Conceptualization of Scientific Specialties" The Sociological Quarterly 17(1976), 448-76
*David Edge and Michael Mulkay, Astronomy Transformed (1976) Ch. 10
David Edge, "Quantitative Measures of Scientific Communication in Science: A Critical Review" History of Science 8(1979), 102-34
*Belver Griffith and Nicholas Mullins, "Coherent Social Groups in Scientific Change" Science 177(1972), 959-64.
Warren O. Hagstrom, The Scientific Community (1965) Chs. 4 & 5
*John Law, "The Development of Specialties in Science: The Case of X-Ray Protein Crystallography" Science Studies (now Social Studies of Science) 3(1973), 275-303
Michael Mulkay, G. Nigel Gilbert and Steve Woolgar, "Problem Areas and Research Networks in Science" Sociology 9(1975), 187-203
Nicholas C. Mullins, "The Distribution of Social and Cultural Properties in Informal Communication Networks among Biological Scientists" American Sociological Review 33(1968), 786-97
Nicholas C. Mullins, Theory and Theory Groups in Contemporary American Sociology (1973)
Derek J. deSolla Price, "Networks of Scientific Papers" Science 149(1965), 510-5 [reprinted as Ch. 5 of Price, Little Science, Big Science...and Beyond (1986)

Henry Small and Belver Griffith, "The Structure of Scientific Literatures" Science Studies (now Social Studies of Science)
Part I: 4(1974), 17-40
Part II: 4(1974), 299-365
Daniel Sullivan, D. H. White and E. Barboni, "The State of a Science: Indicators in the Specialty of Weak Interactions" Social Studies of Science 7(1977), 167-200
Steve Woolgar, "The Identification and Definition of Scientific Collectivities" in G. LeMaine et al. (eds.), Perspectives on the Emergence of Scientific Disciplines (1976) Pp. 223-45

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PART B. SOCIAL CONSTRUCTION OF SCIENTIFIC KNOWLEDGE

February 21: Scientific Discovery

Bernard Barber, "Resistance by Scientists to Scientific Discovery" Science 134(1961), 596-602
Bernard Barber and Renee Fox, "The Case of the Floppy-Eared Rabbits: An Instance of Serendipity Gained and Serendipity Lost" American Journal of Sociology 64(1958), 128-36
Augustine Brannigan, The Social Basis of Scientific Discovery (1981)
*Ludwik Fleck, Genesis and Development of A Scientific Fact (1935) Chs. 1-3
Harold Garfinkel, M. Lynch, E. Livingston, "The Work of Discovering Science Construed with Materials from the Optically Discovered Pulsar" Philosophy of the Social Sciences 11(1981), 131-58
Thomas F. Gieryn and Richard F. Hirsh, "Marginality and Innovation in Science" Social Studies of Science 13(1983), 87-106
David Hull et al., "Planck's Principle" Science 202(1978), 717-23
*Robert K. Merton, "Singletons and Multiples in Scientific Discovery" in his The Sociology of Science (1973) Ch. 16
Gunther Stent, "Prematurity and Uniqueness in Scientific Discovery" Scientific American 227(December 1972), 84-93
Steve Woolgar, "Writing an Intellectual History of Scientific Development: The Use of Discovery Accounts" Social Studies of Science 6(1976), 395-422

February 23: Kuhnian Revolutions and Evolutionary Epistemology

Donald T. Campbell, "Evolutionary Epistemology" in P.A. Schilpp (ed.), The Philosophy of Karl Popper (1974) Pp. 413-63
*David L. Hull, Science as a Process (1988) Chapter 12
*Thomas S. Kuhn, The Structure of Scientific Revolutions (1970 revised edition)
Thomas S. Kuhn, The Essential Tension (1977)
Imre Lakatos and Alan Musgrave (eds.), Criticism and the Growth of Knowledge (1970)

Peter Munz, Our Knowledge of the Growth of Knowledge (1985)
Trevor Pinch, "Kuhn: The Conservative and Radical Interpretations" 4S Newsletter 7(Spring 1982), 10-25

February 28: Relativism to Constructivism

H. M. Collins, "Stages in the Empirical Programme of Relativism" Social Studies of Science 11(1981), 3-10
Harry Collins, "An Empirical Relativist Programme in the Sociology of Scientific Knowledge" in Knorr-Cetina and Mulkay (eds.), Science Observed (1983) Ch. 4
Thomas F. Gieryn, "Relativist/Constructivist Programmes in the Sociology of Science: Redundance and Retreat" Social Studies of Science 12(1982), 279-97 [followed by Responses and Replies by Collins, Mulkay, Gilbert, Knorr-Cetina, Krohn and Gieryn on Pp. 299-335]
Martin Hollis and Steven Lukes (eds.), Rationality and Relativism (1982)
*David Bloor, Knowledge and Social Imagery (1976) Chapter 1
Trevor Pinch, Confronting Nature (1986) Chs. 1 & 8

March 2: Enculturation Models

*Harry Collins, "The Seven Sexes: A Study in the Sociology of a Phenomenon, or The Replication of Experiments in Physics" Sociology 9(1975), 205-24 [Ch. 5 of B. Barnes and D. Edge (eds.), Science in Context (1982)]
H.M. Collins, "The TEA Set: Tacit Knowledge and Scientific Networks" Science Studies [now Social Studies of Science] 4(1974), 165-86 [excerpt in B. Barnes and D. Edge (eds.), Science in Context (1982) Ch. 3]
Harry Collins, Changing Order (1985)
H. M. Collins, "Expert Systems and the Science of Knowledge" in W. Bijker et al. (eds.), The Social Construction of Technological Systems (1987) Pp. 329-48

March 7: Laboratory Ethnographies

Karin Knorr-Cetina, The Manufacture of Knowledge (1981)
Karin Knorr-Cetina, "New Developments in Science Studies: The Ethnographic Challenge" Canadian Journal of Sociology 8(1983), 153-77
*Karin Knorr-Cetina, "The Ethnographic Study of Scientific Work: Toward a Constructivist Interpretation of Science" in Knorr-Cetina and Mulkay (eds.), Science Observed (1983) Ch. 5
Bruno Latour and Steve Woolgar, Laboratory Life (2d ed., 1986) [Excerpt in B. Barnes and D. Edge (eds.), Science in Context (1982) Ch. 2)
Michael Lynch, Art and Artifact in Laboratory Science (1986)
*Michael Lynch, E. Livingston and H. Garfinkel, "Temporal Order in Laboratory Work" in Knorr-Cetina and Mulkay (eds.), Science Observed (1983) Ch. 8
Steve Woolgar, "Laboratory Studies: A Comment on the State of the Art" Social Studies of Science 12(1982), 481-98

SKAT section day is Friday, August 11. There is a full day of activities including:

7:00-8:20 AM	SKAT Council Meeting	Diablo Room
8:30 AM	The New Sociology of Knowledge: Empirical and Theoretical Approaches	
10:30-11:30 AM	SKAT Informal Roundtable Presentations	
11:30-12:20	SKAT Business Meeting Agenda includes: Awards, Development of Teaching Resources, Future Meeting Format and Topics, and dues increase	
4:30 PM	Science, Technology, and Society	
6:30 PM	SKAT Reception	Yosemite B

In addition to SKAT activities, other ASA annual meeting sessions likely to be of interest to section members include:

Session	Title	Time & Date
57	The Social Impacts of Computers and Telecommunications	4:30 PM Aug 9
86	Ethnomethodology: Studies in Technical Knowledge and Technical Praxis	10:30 AM Aug. 10
99	Science: The Social Context	12:30 PM Aug. 10
170	Social Impacts of Science & Technology	2:30 PM Aug. 11
181	Sociology of Risk I	4:30 PM Aug. 11
197	Conceptions of "Hazard" in a Technological Age	8:30 AM Aug. 12
242	Attitudes, Impacts, and Involvement: Resources, Policy, and the Public	2:30 PM Aug. 12
255	Sociology of Risk II	4:30 PM Aug. 12

OPPORTUNITIES

Call for Papers: Manuscripts are invited (due February 1, 1990) for Management and Technology-Mediated Communication, Vol. III in a series, "Studies in Technological Innovation and Human Resources," published by DeGruyter. Details are available from:

Urs E. Gattiker
Technology Assessment Research Unit
School of Management
The University of Lethbridge
Lethbridge, Alberta
CANADA T1K 3M4
(403) 329-2630

Call for Papers: Papers are invited for a session on "Science, Technology, and Society" at the combined North Central Sociological Association/Southern Sociological Society meetings to be held in Louisville, Kentucky on March 22-25, 1990. Papers should be submitted before November 1, 1989 to:

James C. Petersen
Department of Sociology
Western Michigan University
Kalamazoo, MI 49008
(616) 387-3600

The Society for Social Studies of Science (4S) will hold its annual meeting November 15-18, 1989 at the Red Lion Hotel, 3050 Bristol Street, Costa Mesa, CA 92626. Registration information is available from:

Susan Leigh Star
Department of Information & Computer Science
University of California
Irvine, CA 92717
(714) 856-8158
Star@ics.uci.edu

Phyllis Moen reports that NSF's Division of Social and Economic Sciences is encouraging the submission of proposals for research on women in science and engineering. Studies of the dynamics of educational and career choice and career development in science and technology would be of special interest. Priority will be given to secondary analyses of data. For more information contact:

Phyllis Moen
Director, Sociology Program
National Science Foundation
Washington, D.C. 20550
(202) 357-7802
PMOEN@NSF.GOV