

ASA-SKAT: Science, Knowledge, & Technology Section

Fall 1999.

Editors: Jennifer L. Croissant, University of Arizona, Franz A. Foltz, RIT

From the Section Chair

Tom Gieryn, Indiana University

WELCOME NEW MEMBERS!...and a special welcome to those readers of this Newsletter who never suspected that they were, in fact, members of the Section of Science, Knowledge and Technology. Let me explain: the number of SKAT sessions at the 2000 ASA meetings in Washington is a function of our membership size (as recorded officially on September 30). Here is the **GOOD NEWS**: we have edged over the 400-member mark, which means we shall have four SKAT sessions next year (we only had three sessions last August in Chicago)! Chair-elect Joan Fujimura (Stanford) has put together a very appealing set of topics, and I hope many of you will submit manuscripts for review.

But the real story is HOW we managed to break the glass ceiling of 400. In Chicago, we were 358 strong. Secretary-Treasurer Mary Frank Fox (Georgia Tech) called our attention to the fact that graduate student section memberships – pro-rated for the remainder of 1999 – would sell for a mere \$3/head, for those students who are already card-carrying ASA members. Steve Zehr (University of Southern Indiana), chair of the Membership Drive Committee, obtained lists of student members in other ASA sections with clear substantive connections to SKAT (e.g., Environment and Technology). Meanwhile, Mary passed the hat among faculty members of the SKAT Council, and we raised enough money to buy gift memberships for about 40 graduate students. (At the last minute, Steve and I selected almost at random several lucky grad students at Indiana University, who are no doubt surprised to be reading these words.)

Our successful membership drive was a team effort, and I would like to thank Mary and Steve for their dedication and optimism, and the current SKAT Council for their generosity.

And I hope every member of SKAT – veterans, newcomers, those co-opted – will choose to retain their section membership when dues are collected next time 'round. And here is my sales pitch: by whatever indicator you choose, there is no better time than now to be a member of SKAT, and to participate in the raucous community of sociologists who study science, technology and society.

After a rather long walkabout elsewhere, issues of science and technology have once again – it seems – returned to the core of the sociological research agenda. For instance, papers by prominent sociologists of science – Kelly Moore, Andy Pickering, Harry Collins, and others I have surely forgotten – have recently been published in *AJS* and *ASR*. The rest of sociology has at last awakened to the possibility that what SKAT-people do is no longer "fringe science!" Also, SKAT has joined up with a wide range of other ASA sections – Organizations, Occupations and Work; Culture; Theory; Sex and Gender – to co-sponsor well-attended sessions at recent annual meetings.

Moreover, sociological aspects of science and technology are now, more than ever, front page news (and I don't mean "science wars"). Imagine my surprise (and delight) at picking up the October 15, 1999 issue of *The Chronicle of Higher Education*, to see SKAT member Diane Vaughan (Boston College) featured in an article on how sociology explains technological disasters – complete with a plug for her book on the Challenger explosion, which (incidentally) won SKAT's Robert K. Merton Book Award two years proposed by more senior scholars. Two of my own graduate students have received NSF dissertation grants: Barb Halpenny is in Vietnam studying the culture of the biosciences there, and Todd Paddock is finishing up research on the political ambitions of the Nature Conservancy in a rural county of southern Ohio.

The real reason to stay with SKAT is to keep abreast of the latest intellectual developments in a field famous for its serious scholarship, tempestuous debates and unforgettable personalities (maybe I should move from Bloomington to Madison Avenue). Maybe I'll have space to talk about all of that in the next Newsletter! Meanwhile, those of us who have been around SKAT from the start are very happy to be joined by our newest members. We can't exactly offer you a money-back guarantee, since some of you got in for free. But if you are not completely satisfied with your new SKAT membership, e-mail me and we'll fix it: gieryn@indiana.edu.

SKAT BUSINESS MEETING, AUGUST '99

Mary Frank Fox, GA Tech.

The SKAT business meeting was opened by Chair, Peter Whalley, on Sunday, 8 August, 11:30 a.m., at the Chicago Hilton. Thirty (30) section members were present at the meeting. Chair Whalley welcomed new council members. He discussed the costs of, and pros/cons and prospects of co-sponsorship for, our annual reception.

Treasurer/Secretary, Mary Frank Fox, reported on the SKAT treasury: Dues to end-date, July '99 are \$2,164. Our budgeted expenses for '99 are the Newsletter (3 issues per year); graduate student paper awards; and reception. This year, our reception was subsidized through Loyola University, and appreciation was extended to Loyola, SKAT Chair, Peter Whalley's home institution. Assuming that we spend on the third Newsletter of '99 the amount spent on the previous two issues, we are within budget for '99. The budget for 2000 will be the same as that for 1999. The budget was approved.

Membership Chair, Steven Zehr, reported that as of July '99 our membership count is 348. In the coming year, the Membership Committee will undertake initiatives to expand SKAT membership by

outreach to students and through cooperation with other Sections and constituencies.

Award Chair, Ed Hackett announced & congratulated the graduate student paper awardees, Linda Namu and Jennifer Fishman. This year's R. K. Merton awardee, Thomas Gieryn, was announced and congratulated for his book, *Cultural Boundaries of Science*.

Tom Gieryn took the helm in new SKAT Chair and appreciation was extended to Peter Whalley for his contributions as Chair of our Section. The Section's new Committee Chairs were announced: Ed Hackett, Awards; Diane Vaughn, Nominations; Steve Zehr, Membership, Peter Whalley (SKAT outgoing chair), Tom Gieryn (SKAT incoming chair), and Joan Fujimura (SKAT chair-elect), SKAT Lifetime Achievement Award Committee.

Other business: The 2000 SKAT program was forecasted by Chair-elect, Joan Fujimura (*see below*). A visitor made an announcement about petitioning to add ASA Sections' representation to the ASA organizational framework.

The meeting adjourned at 12:15 p.m.

At the '00 Meetings with SKAT

Joan Fujimura, Chair-Elect.

"BIOTECHNOLOGIES, MEDICINE, AND SOCIETY".

Open submission session.

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"INFORMATION AND MEDIA TECHNOLOGIES AND SOCIETY".

Open submission session.

JOAN H. FUJIMURA

(See council listing on back page for contact info.)

"ORGANIZATIONS AND TECHNOLOGICAL DISASTERS" (co-ordinated with the section on Organizations, Occupations, and Work).

Open submission session.

THOMAS BEAMISH

"SKAT ROUNDTABLES".

Open submission session.

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1999 Awards & Call for 2000 Nominations

The SKAT Awards Committee, which includes Kelly Moore, Jason Owen-Smith, and Ed Hackett, is pleased to announce the 1999 award winners.

Cultural Boundaries of Science by **Thomas F. Gieryn** of Indiana University has won the 1999 Robert K. Merton Award. The award is given annually by the Science, Knowledge and Technology section of the American Sociological Association in recognition of the best recent book or body of scholarship in our field. In its citation, the committee wrote:

The committee was impressed by the sweep of your scholarship, as you drew upon case studies of phrenology and cold fusion, composting and social science to explain how some practices are labeled "science" while others are discredited as unscientific. Cultural cartography and the notion of boundary work provide new perspectives for thinking about the foundations of scientific authority and open new terrain for empirical investigation. Your demonstration that there are no stable characteristics of science that transcend place and time – that both empiricism and theoretical relevance have been used, at different times, to bolster or discredit claims to scientific status – will surely stimulate new research. By closing the book with a reflection on the "science wars," you demonstrate the application of your perspective and historical analysis to concerns of the present. As always, your writing is lively and engaging – a joy to read.

Jennifer Fishman and Laura Mamo of the University of California, San Francisco, have won the 1999 Sally Hacker-Nicholas Mullins Graduate Student Award for their paper "**Potency in All the Right Places: Viagra as a Technology of the Gendered Body.**" The Science, Knowledge and Technology section of the American Sociological Association gives this award annually to the best graduate student paper in our field. The committee citation read, in part: The committee was impressed with the way your paper delves beneath the surface of promotional literature for Viagra to illuminate the problematic relationship between the natural and the technical. With subtle and insightful analysis, you show how this new lifestyle drug constructs and reinforces normative conceptions of masculinity and heterosexuality. Perhaps best of

all, you connect your analysis to sophisticated theoretical ideas with prose that is lucid and graceful. On behalf of the section membership, the committee offers its warmest congratulations for these excellent works of scholarship and wishes Jennifer, Laura and Tom continued success in their work.

Robert K. Merton Professional Award. SKAT invites nominations (including self-nominations) for the Robert K. Merton Professional Award. This award is given annually in recognition of scholarly achievement, represented by a book or body of work concerning science, knowledge, and technology published during the preceding five years. The awardee, who should be a member of SKAT during the year in which the award is given, will be honored at the ASA meeting in August 2000. The deadline for nominations is April 1, 2000. For each nomination, please send a brief letter identifying the work(s) to be considered, their publisher(s) (presses or journals), and any supporting materials that would help the committee understand the contribution (for example, published book reviews). Please send materials to Edward J. Hackett (address below).

Hacker-Mullins Graduate Student Award. SKAT also invites nominations (including self-nominations) for the Hacker-Mullins Award. The \$200 award is given to a graduate student for a published article or unpublished paper concerning science, knowledge, and technology that was completed during the preceding 12 months. Students are especially encouraged to nominate their own papers for this award. The award will be presented at the 2000 August ASA meetings. The deadline for nominations is June 1, 2000. Please send a copy of the work to: Edward J. Hackett, Department of Sociology, Box 872101, Arizona State University, Tempe, AZ 85287-2101, email: ehackett@asu.edu

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From the Members...

Michael Lynch reports his new affiliation: Department of Science & Technology Studies, Cornell University, 622 Clark Hall, Ithaca, NY 14853, USA. Phone: 607 255-7294; Fax: 607 255-6044 E-mail: mel27@cornell.edu.

Book Notes

Kelly Moore, Barnard College, km104@columbia.edu

Londa Schiebinger's [Has Feminism Changed Science?](#) (Harvard University Press) deserves a place on your bookshelf. Schiebinger synthesizes over twenty-five years of scholarship on women as practitioners and analysts of science in a highly readable, well-organized fashion. Not intended as a work of original research, Schiebinger's goal is to "evaluate current scholarship on gender and science in the United States, with an occasional cross-cultural comparison" (p. 13). Her chapters on "Science and Private Life" and "Physics and Math" are especially good. Her conclusion identifies specific changes in policy and practice that would not only help women achieve in science, but to recognize the importance of diverse viewpoints in a practice that aims to find "truths" about the physical and natural worlds.

I wanted more coverage of cross-cultural studies because in newly industrializing and in formerly Communist countries there are higher proportions of women scientists (Southern Europe), engineers and doctors (the former Soviet Union) as compared to the United States. This fact—perhaps due to the need of these nations to use the "best and the brightest" regardless of social characteristics—may provide some keys to unlocking the doors that have been closed, or at least partially shut, to women who practice or wish to practice science in the United States. That quibble aside, Schiebinger's book would be useful for undergraduate and graduate courses in the Sociology of Science and to recommend to colleagues who are puzzled about what, if anything, gender might have to do with science.

Karin Knorr-Cetina's new book [Epistemic Cultures: How the Sciences Make Knowledge](#) (Harvard University Press) provides a fresh and challenging argument about what—if anything—makes "the sciences" cohere. Using ethnographic material from observations of high-energy physics laboratories (CERN and Fermilab), and molecular biology labs in Göttingen and Heidelberg, Knorr-Cetina makes a number of original arguments. Among them are that what we call science is hardly a unified set of

practices; that the nature and goals of experiments vary widely across scientific disciplines; in spite of the importance of instruments in experiments, and that the human body (especially but not exclusively our sense of vision) is a crucial part of fact-making. Her concluding chapter and the endnotes for all but chapter 1 use Bruno Latour's technique of creating a dialogue with general readers, and more originally, with physicists and molecular biologists, to answer potential questions about her arguments and conceptualizations.

Her most compelling and original arguments concern the role of the experiment and the empirical in different disciplines. In physics, the empirical is something that experimenters try to make disappear, allowing only the traces of the empirical to appear on an experimental device. When an experiment "fails," physicists spend extraordinary amounts of time tracing over the steps of their work to find sources of the error, often speaking the equipment not only as a living actant, but also in moral and social terms. In contrast, molecular biologists spend their experimental time trying to make the empirical appear. They seek to retrieve fragments of naturally occurring substances and to produce new biological products through cloning. The laboratory itself is a production factory for these objects, starting with storage areas for raw materials, moving on to machines and people that make new objects, and finishing with storage areas for finished products. When experiments fail, molecular biologists do not re-trace their steps, but start again, expecting that some kind of "natural variability" explains the failures.

Not content to let these arguments stand only as representations of the work within laboratories, Knorr-Cetina shows—quite persuasively—in her last chapter and in her endnotes how her findings help to explain and understand the broader questions about the workings of a "knowledge society."

Send your own reviews, suggestions for books for evaluation, and other news about member publishing to Kelly Moore at km104@columbia.edu.

Tsion Smotkins writes to inquire: How do human rights issues intersect with new technologies? Are there others interested in the integration of human rights perspectives and humanistic aspects of the teaching setting who are being affected by new technologies?

The hope is to stimulate more interest and discussion or informal as well as formal means to address some of the impacts of technologies on the creative autonomy, spontaneity and innovative techniques being introduced to teach sociology, as well as some of the issues surrounding how TMI (technology mediated instruction) is helping and also threatens to hinder some of the personal aspects of the teaching setting, and the central role of the teacher to inspire, stimulate new thinking and questioning of theorists, where classroom contact and social interaction is being to some extent replaced by alternative techniques of teaching, that diminish the novel, spontaneous, unique and personalized qualities of those who teach. How is this affecting the ability to reach those of diverse backgrounds and bring out the ties of studies, theorists, etc. to current real world events and stimulate fresh ideas, without the simultaneous teacher and classroom interaction?

I am also interested in the ties between using innovative teaching techniques of sociology and scientific techniques of research to K-12 students and how to start addressing the deficiency of these subjects in general available to those in K-12 schools. Please contact me, Tsion Smotkins, at t_tstost@looksmart.com or transits2000@hotmail.com hopefully to organize people and to discuss this topic and ways to raise these issues.

Research Opportunities/Call for Papers & Reviewers/Grants & Fellowships/Upcoming Events

Current Perspectives in Social Theory invites submissions for Volume 20, 2001 volume. Current Perspectives in Social Theory is an annual journal dedicated to publishing significant articles across the spectrum of perspectives within social theory, conceived of in a broad and interdisciplinary sense. To submit a manuscript, send five copies and a one-page abstract to: Professor Jennifer M. Lehmann, Editor, Current Perspectives in Social Theory, Department of Sociology, 741 Oldfather Hall, The University of Nebraska, Lincoln, NE 68588-0324. Deadline for Volume 20 submissions is *January 31, 2000*. Any manuscript received after Jan 31 will not be considered for the 2000 volume. Manuscripts for future volumes may be submitted throughout the year.

Call for Papers: Political Economy of the World-System XXIV Annual Conference (PEWS 2000), THE MODERN WORLD-SYSTEM IN THE 20TH CENTURY. The twenty-fourth annual conference of the Political Economy of the World-System Section of the American Sociological Association will take place March 24-25, 2000 at Boston College. The 24th annual conference of the PEWS is about the Modern World-System in the 20th Century. We will do a retrospective analysis of the 20th century by focusing on several world-scale, long-term processes. Priority will be given to papers that covers from 50 to 100 years or more in terms of time-length and/or encompass a regional or world scale level in terms of the spatial dimensions. We will discuss several processes that have been crucial in changing some of the geopolitical, geocultural and economic dynamics of the capitalist world-system in the 20th century and that have important implications for the next century, such as: peripheral decolonization and global coloniality; anti-systemic movements; utopistics and anti-capitalist strategies; gender inequality; geopolitics of knowledge//geocultural locations//knowledge production.

We will provide lodging and some meals for conference participants. Selected papers from the conference will be published in the annual series edited through Greenwood Press.

THE DEADLINE FOR SUBMISSIONS OF PAPERS OR DETAILED ABSTRACTS IS **DECEMBER 15, 1999**. Please submit materials to: Ramón Grosfoguel, Sociology Department, McGuinn Hall 426, Boston College, 140 Commonwealth Avenue, Chestnut Hill, MA 02167-3807 (e-mail: grosfog@ix.netcom.com).

EQUINOXES 2000: SCIENCE AND CULTURE: LITERATURE/THEORY/ACTION

BROWN UNIVERSITY, March 10-12, 2000.

DEPARTMENTS OF FRENCH AND COMPARATIVE LITERATURE, In conjunction with the Wayland Collegium. KEYNOTE SPEAKER: DAVID BELL, Professor of French, Department of Romance Studies, Duke University.

The eighth annual Equinoxes graduate student conference is seeking submissions that explore any aspect of the relationship between science and culture. Papers may be on any period and national tradition and may be presented in either English or French. Suggested topics include (but are not limited to):

*Scientific Discourse in and Around the Novel; *Science Fiction and Popular Culture; *The Philosophy of Science; *Scientia Sexualis: The Science of Gender and Sexuality; *Millennial Visions: Science in and After the First Millennium; *Science and Imperialism: From the Age of Exploration to the Colonization of Space; *Popular Science: Mass Media and the Idea of Progress; *Positivism and Its Discontents; *Science and Cultural Theory After the Sokal Affair; *Rethinking Bruno Latour: The Cultural Contexts of Scientific Research; *Science and Revolution: The Legacy of Thomas Kuhn; *The Medical Conception of the Body; *What is Objectivity?: Empiricism After Foucault; *Representing Science: Science and the Visual Arts; *Science Hard and Soft: Narrativity and the Human Sciences; *Mad Scientists and Nutty Professors: The Scientist as Cultural and Literary Figure; *Machine Art: Technology and Aesthetics; *Prosthesis and the Supplemented Body; *From Phrenology to the Bell Curve: The Science of Race/The Racism of Science; *Gothic Science: Horror and the Dark Side of Progress; *The Anthropological Idea of Culture; *Darwin's Not in Kansas

Anymore: Teaching Evolution in the Classroom; *From Frankenstein to Flubber: Science on Film; *Cyborgs and Cyberspace; *Mapping the Mind: Psychiatry, Psychology and the Science of Consciousness; *Brave New Worlds: Biotechnology, Nanotechnology and Beyond

Please send 1-2 page abstracts by **January 7, 2000** to: Jared Green/ Equinoxes 2000, Box E, Department of Comparative Literature, Brown University, Providence, RI 02912. E-mail submissions to: Jared_Green@brown.edu (please indicate "Equinoxes" in the subject heading). Please do not send complete papers. Please do not include your name on your proposal; we review proposals anonymously. Please **DO** include your name, institutional and email addresses, and paper title in the cover letter that accompanies the abstract.

The Chemical Heritage Foundation seeks to increase public understanding of the chemical sciences and technologies through the historical study of the chemical industries, including petrochemicals, pharmaceuticals, biotechnology, polymers, plastics, chemical engineering, agricultural chemicals, and environmental remediation. Contact: Leo B. Slater, Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106-2702. Phone: 215-873-8224; Fax: 215-925-1954; email: lslater@chemheritage.org, or see the website at <http://www.chemheritage.org> for more information. **Deadline is 12/1/99.**

The Southern California Colloquium in the History of Science, Medicine, and Technology, at UCLA has an on-going series of presentations. January 22, 2000 is "Science and Magic in Early Modern Europe: Revisited," April 29, 2000 is "The American Symbiosis of Politics and Science." November 4, 2000 is expected to be "The Effects of Political Revolutions on Science, Medicine, and Technology." For more information, contact Margaret C. Jacob, mjacob@history.ucla.edu.

The Institute for Science and Technology Studies (IWT) at Bielefeld University, Germany, offers 9 stipends in its STS-Graduate School (Graduiertenkolleg). The website <http://www.uni-bielefeld.de/iwt/gk/> has more information.

Call for Reviewers –The journal **Technology Analysis & Strategic Management** is currently seeking reviewers for its book review section. If you are interested in reviewing books for the journal, please contact one of the book review editors, outlining your main area(s) of interest and giving brief details of any review experience, with relevant citations as appropriate. People with interests in a wide range of approaches to science and technology studies are encouraged to apply: the journal reviews a wide variety of publications from government reports through standard textbooks to critical analyses of technologies and their applications. Please contact: Charles Booth, (charles.booth@uwe.ac.uk) or Judith Jordan (judith.jordan@uwe.ac.uk), Bristol Business School, University of the West of England, Coldharbour Lane, Bristol BS16 1QY, United Kingdom, Tel: +44 117 9656261, Fax: +44 117 9763851.

Technology Analysis & Strategic Management is a quarterly international research journal, linking the analysis of science and technology with the strategic needs of policy makers and management. The journal presents research on the analysis and assessment of technologies, their potentialities and impacts, and the development of methodological tools for the identification and analysis of key scientific and technological developments. The scope of the journal extends from technological issues and questions at the corporate and organizational level, through the intermediate levels of the firm and state/national capabilities and supranational capabilities, as far as issues of technological geopolitics, and also promotes strategic thinking about how science and technology can be exploited industrially. Journal Homepage: <http://www.carfax.co.uk/tas-ad.htm>

Employment Announcements

Georgia Tech's School of History, Technology, and Society (HTS) invites applications and nominations for the Melvin Kranzberg Professorship in Technology and Culture.

Named for the founder of history of technology as an academic discipline, the Kranzberg Professorship is designed for an eminent scholar in history, sociology, or a related discipline whose scholarly work explores the connections between technology and culture. As a member of HTS, which consists of twenty historians and sociologists, the holder of the Kranzberg Professorship will be expected to play a leadership role in the School's doctoral program and to work with colleagues to develop scholarly initiatives of national distinction. Ideally, candidates should have attained the rank of full professor, but exceptional candidates at the advanced associate professor level will also be considered. The Kranzberg Professorship offers a generous salary and benefits, a teaching load of one course per semester, and clerical support. Send letter of application, and three letters of recommendation to Gregory Nobles, Chair, Kranzberg Professorship Search Committee,

School of History, Technology, and Society, Georgia Institute of Technology, Atlanta GA 30332-0345 USA. Review of applications will begin on November 1, 1999. Georgia Tech is an AA/EOE employer.

The Division of the Humanities and Social Sciences at the California Institute of Technology invites applications for a **two-year Postdoctoral Instructorship** in history of science and technology. We are especially interested in individuals with interests in any of the following areas:

(1) History of the life sciences and/or sciences of mind; (2) history of computer/calculation sciences and/or information technologies from the early nineteenth century. Appointment is contingent upon completion of Ph.D. Duties include research and undergraduate teaching (three courses).

Send letter of application, curriculum vitae, one-page outline of research interests, letters of reference and a writing sample to: Chair, History of Science Search Committee, HSS 228-77,

Caltech, Pasadena, California, 91125. Deadline for applications is December 1, 1999. Interviews will be held at the meeting of the History of Science Society and at the AHA. Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

Head, Division of Multidisciplinary Studies, NC State University.

Applications are invited for headship of a 12-member division that offers a BA and BS in Multidisciplinary Studies and a MA in Liberal Studies, and includes the Bachelor of Social Work. Undergraduate focal areas are African Studies; Arts Studies; Environmental Science; Film Studies; Science, Technology, and Society; and Women's & Gender Studies. Ph.D., active involvement in interdisciplinary teaching or research, successful administrative experience at departmental, division, or college level, demonstrated interest in pedagogic excellence and innovation, and scholarly record appropriate for full professorship appointment at a Research I university required. Ideal candidate will have grant experience and interests that support key strengths of the College of Humanities and Social Sciences as well as cross-campus collaboration. Send letter indicating leadership experience and philosophy, ideas about interdisciplinary education, and research interests along with C.V., names of four references with phone numbers and addresses, and selected samples of interdisciplinary work in teaching, research and/or grant seeking. In its commitment to diversity and equity, NC State seeks applications from women, minorities, and persons with disabilities. Screening of materials begins November 1, 1999 continuing until position is filled. For further information, see

<http://www2.ncsu.edu/ncsu/chass/mds/>. NC State is a Research I public land grant institution enrolling 27,000 students, located in the state capital and within the Research Triangle Region of North Carolina. Send materials to Chair, MDS Head Search Committee, Box 7107, NC State, Raleigh, NC 27695-7107. Individuals with disabilities desiring accommodations in the application process should contact Betty Swayne in the Division as 919.515.6964 (voice) or 919.515.5128 (fax), or swayne@social.chass.ncsu.edu.

Science and Technology Studies, Rensselaer Polytechnic Institute

With support from the National Science Foundation (NSF), the Department of Science and Technology Studies invites applications for a one-year, post-doctoral fellowship, with renewal possible. Completed PhD preferred, and the PhD must have been awarded within the last three years. The ideal candidate should have an active research interest in science, technology and society (STS) and design studies, particularly about engineering, industrial, or product design. The successful candidate is expected to conduct research on design, attend the regular meetings of the design working group, and assist in planning and running the NSF-supported colloquium series on design as well as the design seminar held in the spring semester. The candidate will, in these ways, help the design-working group to develop an STS-Focus on Design. The candidate is also expected to work well in an interdisciplinary environment that includes the humanities and social sciences at the department level as well as the architecture and engineering disciplines in Rensselaer's new multidisciplinary, undergraduate program in product design and innovation. The

department offers a full range of STS degree programs from BS to PhD. Rensselaer is an equal opportunity/affirmative action employer and encourages applications from women and members of minority groups. Send CV, three letters of reference and one example of work to John Schumacher, Chair, STS Department, Rensselaer Polytechnic Institute, Troy, New York 12180-3590. Screening will begin December 1, 1999, and will continue until the position is filled. Applications received after Dec. 1, 1999 cannot be guaranteed full consideration. Starting date is August 2000.

The National Science Foundation invites applications for the position of Program Director for Science and Technology Studies, to begin preferably in August 2000.

The position may be filled on a 1- to 2-year visiting scientists/temporary basis or under the provisions of the Intergovernmental Personnel Act (IPA). IPA applicants must be permanent, career employees of eligible organizations for at least 90 days prior to entering into a mobility assignment agreement with NSF. Reimbursement of salary and other related costs are negotiated between NSF and the individual's institution. Current annual salary for the program director position ranges from \$68,570 to \$106,868.

The Program Director for Science and Technology Studies (STS) represents STS to colleagues in the NSF and other Federal science agencies, and to the Administration. STS encompasses history, philosophy, and social science studies of science, engineering, and technology. The Program Director provides intellectual leadership and is responsible for all aspects of program administration and development. He or she administers the review of research proposals submitted to NSF in this field and is responsible for recommending and documenting actions on the proposals reviewed, for dealing with administrative matters relating to active NSF grants, and for maintaining regular contact with the relevant research communities and providing advice and consultation to persons requesting them.

Applicants must have a Ph.D. or equivalent experience in a relevant discipline, plus six or more years of successful research, research administration, and/or managerial experience pertinent to the position. Applicants should show evidence of initiative, administrative skill, and ability to work well with others. While the Foundation is interested in individuals with research interests in the environment and global change or innovation and society, these are not essential.

The National Science Foundation is located in Arlington, VA, immediately across the Potomac River from Washington, DC. The metropolitan Washington area, besides being the seat of the U.S. Government, is noted as a cultural center and as a growing center of high-tech industry. A wide variety of types of housing is available within close proximity to the NSF offices.

Please direct inquiries and expressions of interest to Mr. William P. Butz, Director of the Division of Social and Economic Sciences, phone: 703.306.1760, email: wbutz@nsf.gov, or Dr. Michael Sokal, Program Director, STS, phone: 703.306.1742, email msokal@nsf.gov, or Dr. Rachele D. Hollander, coordinator of the cluster housing the STS program, phone: 703.306.1743, or email: rholland@nsf.gov. All are located in Suite 995, National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, fax: 703.306.0485.

Qualified persons who are women, ethnic/racial minorities, and persons with disabilities are strongly encouraged to apply. The National Science Foundation is an Equal Opportunity employer, committed to a highly qualified staff that reflects the diversity of our nation.

Postdoctoral Research Associate, University of Arizona.

This position is available as a full-time, six-month position (nonrenewable) January-June 2000, during which the candidate will help to develop assessment procedures for the "Universities in the Information Age" program; co-supervise a research seminar for graduate students undertaking qualitative and quantitative work in the area of contextual studies of information technology and intellectual property in academic science and engineering, and, conduct his/her own research and contribute to collaborative research efforts in the areas of study related to ethics and values, information technology, intellectual property, and work in academic science and engineering. (The position will also be available for an academic year appointment, August 2000-June 2001.) Duties and Responsibilities: Develop an assessment strategy, including data collection, about the program and students.

Co-supervise a research seminar for graduate students, including regular meetings with students and, some review of student materials (grading). Conduct independent and collaborative research. Develop independent or collaborative research proposals. Minimum Qualifications: Ph. D. in a relevant field, including interdisciplinary programs, education, the social sciences, or business, management, and engineering programs. Demonstrated research base in the areas of technology studies, higher education, sociology or science and technology or related fields concerned with science, technology, society, and ethics and values. Preferred Qualifications: Experience in supervising research. Experience in a diversity of research methodologies. Excellent communication and networking skills.

To apply, please submit a cover letter and resume to: Dr. Jennifer Croissant, Department of Materials Science & Engineering The University of Arizona, Harshbarger Building, Room 16C, P.O. Box 210012, Tucson, AZ 85721-0012.

The ASA (<http://www.asanet.org>) has the *Employment Bulletin* on-line, as well as annotated links to other employment listings and job-search aids.

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