

**SOCIETY  
FOR SOCIAL STUDIES  
OF SCIENCE**

**1993  
45 ANNUAL MEETING**

**PROGRAM**



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PURDUE UNIVERSITY  
WEST LAFAYETTE, INDIANA, USA

NOVEMBER 19-21, 1993

**SOCIETY  
FOR SOCIAL STUDIES  
OF SCIENCE  
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45 ANNUAL MEETING  
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PURDUE UNIVERSITY  
WEST LAFAYETTE, INDIANA, USA  
NOVEMBER 19-21, 1993

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**THURSDAY, NOVEMBER 18**

**1:00 p.m. - 3:00 p.m.**

- Publications Committee Meeting (Stewart 326)

**3:00 p.m. - 5:00 p.m.**

- Council Meeting (Stewart 326)

**FRIDAY, NOVEMBER 19**

**8:15 a.m. - 10:15 a.m.**

**1. PEER REVIEW OF RESEARCH  
PROPOSALS: Part I**

Stewart 311

**Organizer and President:** *Frans van den Beemt*  
(Technology Foundation)

*Arthur M. Diamond, Jr.* (University of Nebraska-Omaha), "The relative success of government and private foundations in funding important research"

*Carol Berkenkotter* (Michigan Technological University), "The Cinderella syndrome or how do scientist at a non-elite university survive during hard times?"

*Thomas Tyden* (Dalarna Research Institute, Falun, Sweden), "Longitudinal studies give new dimensions when measuring research utilization"

*Vaughn Blankenship* (University of Illinois at Chicago), "Priority setting and resource allocation in U.S. science policy: the case of the National Science Foundation (NSF)"

**Discussants:** *Edward J. Hackett* (Rensselaer Polytechnic Institute) and *Carlos Kruytbosch* (National Science Foundation)

## 2. WOMEN IN SCIENCE

Stewart 320

**President:** *J. Scott Long* (Indiana University)

*Theresa Conefrey* (University of Illinois at Urbana-Champaign), "Women in science in the 1990s"

*Xuemei Xie* (Rensselaer Polytechnic Institute), "Politics by design: New York State Alliance for Girls and Women in Technology"

*Laura Kramer* (Montclair State College), "Undergraduate engineering: what produces integration?"

**Discussant:** *Nina Toren* (Hebrew University)

## 3. CONTROVERSY AND CONSENSUS IN SCIENCE

Stewart 322

**President:** *David Hull* (Northwestern University)

*Mark Rodeghier* (The University of Illinois at Chicago), "Factors influencing attitudes toward controversial research: quantitatively disentangling the social from the scientific"

*Brad D. Hume* (Indiana University), "The rationalization of the native: the Davenport conspiracy, the bureau of ethnology, and the acculturation of the American Indian"

*Trevor Pinch* (Cornell University), "Science in the open: crop circles in England"

*Rosa Haritos* (Stanford University), "Consensus and closure of a scientific debate: disagreement over the reliability of knowledge"

*Miriam Solomon* (Temple University), "Happily ever after with consensus?"

## 4. SCIENTIFIC RHETORIC

Purdue Memorial Union 130

**President:** *Floyd Merrell* (Purdue University)

*Robert J. Silverman* (Ohio State University), "Comments and replies: academic conversations"

*William M. Keith* (Oregon State University), "Making connections: the uses of neuroscience in connectionist literature"

*Garrit Curfs* (Virginia Polytechnic and State University), "Rhetoric and explanation in scientific change"

*Eileen Crist* (Boston University), "Darwin's anthropomorphism"

*Margaret Luebs* (The University of Michigan), "Transcription as a rhetorical device: the construction of knowledge claims in linguistics"

## FRIDAY, NOVEMBER 19

10:30 a.m. - 12:30 p.m.

## 5. PEER REVIEW OF RESEARCH PROPOSALS: Part II

Stewart 311

**Organizer and President:** *Frans van den Beemt* (Technology Foundation)

*Ivan Tchalakov* (Institute of Sociology, Sofia, Bulgaria), "Rejuvenate the old lady: research evaluation in the process of reforming Bulgaria"

*Chris Mommers*, *Margriet Jansz*, and *Cees le Pair* (Technology Foundation, Utrecht, The Netherlands), "The predictive value of peer review for the outcome of technological projects. A users view"

*Frans van den Beemt* (Technology Foundation, Utrecht, The Netherlands), *Tom van Raan* and *Thed van Leeuwen* (Centre for Scientific and Technology Studies), "Does peer review match publication/citation ratings?"

*Sven Hemlin* (University of Göttenborg), "Peer judgments of grant proposals: a process tracing study in psychology"

*J.P. Veen and Cees le Pair* (Technology Foundation, Utrecht, The Netherlands), "Self selection by scientists"

**Discussants:** *Edward J. Hackett* (Rensselaer Polytechnic Institute) and *Carlos Kruytbosch* (National Science Foundation)

## 6. BOUNDARY WORK: SCIENCE/POLITICS

Stewart 320

**President:** *Thomas F. Gieryn* (Indiana University)

*David H. Guston* (Harvard University), "Boundary work in defining and adjudicating misconduct in science"

*Willem Halffman* (University of Amsterdam), "Boundaries and the development of knowledge practices: standardization, ecology and environmental toxicology"

*Doug Hemken* (University of Wisconsin-Madison), "Farmers, scientists, and boundary work: six alternative definitions of agricultural science, 1800-1900"

*Roland Bal* (University of Leiden), "Organizing standards"

*Kelly Moore* (Barnard College), "Doing good while doing science: political protest and the formation of public information science organizations in America, 1955-1970"

## 7. PUBLIC REPRESENTATIONS OF SCIENCE

Stewart 322

**President:** *Joseph Haberer* (Purdue University)

*Luis Moreno and José Luis Luján* (Instituto de Estudios Sociales Avanzados (CSIC)), "Public perception of biotechnology in Spain"

*M. Susan Lindee* (University of Pennsylvania), "ET's DNA: the gene as sacred object in popular culture"

*Malcolm Ashmore* (Loughborough University), "Turning an artefact into an artifact: the Piltown fraud discovery"

*Leon E. Trachtman* and *Young-Joo Lee* (Purdue University), "Changes in media representation of science, 1960/1990"

## 8. RISK

Purdue Memorial Union 130

**President:** *David Rier* (Columbia University)

*Jorun M. Stenoeien* (NVI, Trondheim), "A regime change in the political understanding of risk in Norway"

*Shana M. Solomon* and *Edward Hackett* (Rensselaer Polytechnic Institute), "Evidence and proof at the frontier of law and science: lessons from *Daubert v. Merrell Dow*"

*Lawrence Busch* and *Keiko Tanaka* (Michigan State University), "Metaphors and measurements: determining the toxicity of erucic acid"

*Nejat Ozyegin* (University of Pennsylvania), "Different strokes for different folks: experts' assessment of social risk"

*William D. Rifkin* (George Mason University), "Jousting for expert status"

## FRIDAY, NOVEMBER 19

12:30 p.m. - 1:45 p.m.

### SCIENCE, TECHNOLOGY AND HUMAN VALUES EDITORIAL BOARD MEETING

Stewart 326

## FRIDAY, NOVEMBER 19

1:45 p.m. - 3:45 p.m.

### 9. SCIENTIFIC AND TECHNICAL PRACTICES

Stewart 310

**President:** *Martin Curd* (Purdue University)

*Olga Amsterdamska* (University of Amsterdam), "Beyond tacit skills: articulation in scientific practice"

*Rosa Haritos* (Stanford University), "Préjújé in science: thought styles and scientific practice"

*Joan Fujimura* (Stanford University), "Constructing rhetorics, histories and styles of practice in AIDS biomedicine"

*Geoff Cooper* (Brunel University), "Simulation in science and technology"

## 10. IMPLEMENTING DEMOCRATIC TECHNOLOGICAL CHOICE

Stewart 314

**Organizers:** *Susan Cozzens* (Rensselaer Polytechnic Institute) and *Frank Laird* (University of Denver)

**President:** *Frank Laird* (University of Denver)

*Susan E. Cozzens*, *Ana Laura Rodriguez-Gusta*, *Paul Meixner*, and *Jonathan Tucker* (Rensselaer Polytechnic Institute), "Problems in implementing democratic technological choice"

*Paul Meixner* (Rensselaer Polytechnic Institute), "The Seawolf "super sub" confronts democratic processes"

*Sue Hadden* (University of Texas at Austin), "Right to know—right to choose"

**Discussant:** *Dan Fiorino* (Environmental Protection Agency)

## 11. MANUFACTURING MANAGERIAL KNOWLEDGE

Stewart 318

**Organizer:** *Yehouda Shenhav* (Tel Aviv University and University of Wisconsin-Madison)

**President:** *Marc Ventresca* (University of Illinois at Urbana-Champaign)

*Joseph Poras* (University of Illinois at Urbana-Champaign), "Cognitive approach to managerial conception of industry"

*Yehouda Shenhav* (Tel Aviv University and University of Wisconsin-Madison), "Labor unrest and the rhetoric of the management movement: results from the American Machinist 1879-1933"

*Marc Ventresca* and *Sue Monahan* (University of Illinois at Urbana-Champaign), "Rationale and infrastructure in the growth of management training among nonprofit organizations"

## 12. COMPUTERS AND WORK

Stewart 320

**President:** *James Dworkin* (Purdue University)

*Dirk de Wit* (Erasmus Universiteit Rotterdam), "Office automation in the Netherlands: an organizational approach towards the shaping of technology"

*Janet Low* (Brunel University) and *Malcolm Ashmore* (Loughborough University), "The body of a new machine"

*Stella Harding* (University of Surrey), "Metamorphosis of the neophyte — 'suddenly you're a software engineer.' The rhetoric of professionalism in formal methods discourse"

*Sujantha Raman* (University of Pittsburgh), "Deskilling/upskilling reexamined"

## 13. SIMULATING SOCIAL EPISTEMOLOGY

Stewart 322

**Organizer and President:** *Michael E. Gorman* (University of Virginia)

*Robert Rosenwein* (Lehigh University), "Heuristics, hypotheses and social influence: an experimental simulation of scientific decision-making"

*Michael E. Gorman* (University of Virginia), "Sim Sci: A method for simulating social epistemology in the laboratory and classroom"

**Discussants:** *Steve Fuller* (University of Pittsburgh and Virginia Tech) and *Trevor Pinch* (Cornell University)

## 14. FUNDING FOR SCIENCE

Purdue Memorial Union 130

**President:** *Thomas Schott* (University of Pittsburgh)

*Paula E. Stephan* (Georgia State University), "Scientific reputation in the IPO market: the case for biotechnology"

*Dominika A. -Yaneva* (Centre for Science Studies, Bulgaria), "Science — industry relations: the process of innovations along the transitory period to market economy"

*Gary Rhoades* and *Sheila Slaughter* (University of Arizona), "Technology transfer and the internal allocation of university resources"

*John D. Holmfeld* (Council of Scientific Society Presidents), "The evolution of the grant as an instrument for the support of research and its influence on science"

### FRIDAY, NOVEMBER 19

4:00 p.m. - 5:30 p.m.

#### 15. SCIENCE AND POLITICS (Interest Group)

Stewart 318

**Presiders:** *Aant Elzinga* (Gothenberg)

and *Steve Fuller* (University of Pittsburgh and Virginia Tech)

#### 16. PLENARY SESSION:

##### AUTHOR MEETS CRITICS

Fowler Auditorium

**Author:** *Stephen Cole*, "Making Science"

**Critics:** *David Edge* (University of Edinburgh)

*David Hull* (Northwestern University)

*Arie Rip* (University of Twente)

#### TOUR: CENTER FOR INTELLIGENT MANUFACTURING SYSTEMS, PURDUE UNIVERSITY

Assemble at the Potter Center, in the lobby at the southeast corner of the building, near the Engineering Library.

### FRIDAY, NOVEMBER 19

7:00 p.m. - 10:00 p.m.

#### RECEPTION

University Inn

### SATURDAY, NOVEMBER 20

7:15 a.m. - 8:15 a.m.

#### SOCIAL STUDIES OF SCIENCE EDITORIAL BOARD MEETING

Breakfast, Purdue Memorial Union, Room 84A

**Organizer:** *David Edge* (University of Edinburgh)

*get breakfast in bookstore received soon*

### SATURDAY, NOVEMBER 20

8:15 a.m. - 10:15 a.m.

#### 17. CONSTRUCTIVIST PERSPECTIVES ON MEDICAL PRACTICES: Medical Practices and Technologies, Part I

Stewart 310

**Organizers:** *Marc Berg* (Limburg)

and *Monica Casper* (University of California, San Francisco)

**Presider:** *Marc Berg* (Limburg)

*Ann Saetnan* (University of Trondheim), "Tales of ultrasonic women"

*Monica Casper* (University of California, San Francisco), "Actor/actant/cyborg: configuring the fetus in experimental fetal surgery"

*Linda Hogle* (University of California, San Francisco), "Tales from the cryptic: technology meets organism in the living cadaver"

*Jennifer Croissant* (Rensselaer Polytechnic Institute), "Of six million dollar men, bionic women, and engineering design for rehabilitation"

#### 18. TECHNOLOGIES OF EVERYDAY LIFE

Stewart 313

**Presider:** *Andrew Weiss* (MIT)

*Karel F. Mulder* (Delft University of Technology), "Technology networks and chains of production: plastic technology and the environment"

*Russell Mills* (Vermont Technical College), "Diversification and the American bicycle"

*Charles M. Brown* (University of South Florida), "The compatibility of Weber's concept of elective affinities and the actor network model"

in the explanation of Christian speed/thrash metal music"

*Sven Andersson* (Gothenburg University), "From purple haze to purple rain — the scientification of rock music"

*Chandra Mukerji* (University of California, San Diego), "'The Art of War', visualization of military science in 17th-century France"

## 19. THEORIES OF SOCIETY AND THE CONSTRUCTION OF SOCIO-TECHNICAL SYSTEMS

Stewart 314

**Organizer and President:** *Wiebe E. Bijker* (University of Limburg)

*Eduardo Aibar* (INVESTIT, University of Barcelona, Spain) and *Wiebe E. Bijker* (University of Limburg), "The social construction of a city: the Cerda plan for the extension of Barcelona"

*Knut H. Sorensen* (University of Trondheim), "Driver versus vehicle: the car as a micro network"

*Jon Soergaard* (University of Trondheim), "A head of the family? On the automobile's participation in shaping family life"

*Erich Griefster* (Austrian Research Center Seibersdorf), "Technology foresight as organizational innovation, coordination in society between Luhmann and Latour (A comparative study of The Netherlands and Austria)"

*Tannelie Blom*, *Ton Nijhuis* and *Joseph Wachelder* (University of Limburg), "Technology, complexity and contingency"

**Discussant:** *Trevor Pinch* (Cornell University)

## 20. POLITICS OF SCIENCE

Stewart 318

**President:** *Anne Fitzpatrick* (Virginia Polytechnic and State University)

*John Hultberg* (University of Gothenburg), "Political correctness and science policy in USA and Sweden — a comparative study of images of higher education"

*Roli Varma* (Albany, NY) and *Richard Worthington* (Pomona College), "Immiseration of scientists?"

*Martin H. Krieger* (University of Southern California), "Maintaining the ancien regime: how means and variances are ensconced in statistics despite a revolution in the making"

*Raphael Sassower* (University of Colorado at Colorado Springs), "The politics of situating knowledges"

*Richard W. Hadden* (Saint Mary's University), "'Unlawful charms, without natural causes': evil science and the technology of purification"

## 21. EMERGING ISSUES IN SCIENCE POLICY STUDIES

Stewart 320

**Organizer and President:** *Terttu Luukkonen* (The Academy of Finland)

*Phoebe A. Isard* (University of Edinburgh) and *Margaret Sharp* (University of Sussex), "The wider impacts of a research programme: the UK protein engineering club"

*J. Sylvan Katz* and *Ben R. Martin* (University of Sussex), "What is a research collaboration?"

*Terttu Luukkonen* (The Academy of Finland), "Scientists' accounts of the impacts of evaluations"

*Susan E. Cozzens* (Rensselaer Polytechnic Institute), "What STS has to say to the Clinton administration"

**Discussant:** *Ron Johnston* (ACIIC, Sydney)

## 22. SCIENCE STUDIES AND SOCIAL THEORY: RECIPROCAL ANIMATIONS?: Part I

Stewart 322

**Organizers and Presidents:** *Peter Taylor* (Cornell University) and *Bill Lynch* (Cornell University)

*Paul Edwards* (Stanford University), "Political theory and science and technology studies"

*Steve Fuller* (University of Pittsburgh and Virginia Tech), "Broadcasting the news from somewhere: locating normative theory in social space"

*Michael Lynch* (Brunel University), "Re-examining the place of science in social theory"

*Sergio Sismondo* (Queen's University), "The expanding domain of standpoint epistemology"

## SATURDAY, NOVEMBER 20

10:30 a.m. - 12:30 p.m.

### 23. CONSTRUCTIVIST PERSPECTIVES ON MEDICAL PRACTICES: Medical Practices and Technologies, Part II

Stewart 310

**Organizers:** *Marc Berg* (University of Limburg) and *Monica Casper* (University of California, San Francisco)

**President:** *Monica Casper* (University of California, San Francisco)

*Jessica Mesman* (University of Limburg), "The digitalization of medical practice: uncertainty in the neonatal intensive care unit"

*Marc Berg* (University of Limburg), "Getting a decision support technique to work in medical practice: a study of the development and implementation of a medical expert system"

*Marjan Groen* (University of Limburg), "Medical technology and nursing care"

### 24. INSTITUTIONAL CONTEXTS OF SCIENTIFIC RESEARCH

Stewart 313

**President:** *Juan Rogers* (Virginia Polytechnic and State University)

*Robert Dalpé* (Université de Montréal), "International activities of public laboratories"

*Mauricio Schoijet* (Universidad Autónoma Metropolitana-Xochimilco), "Bureaucratic authoritarianism as an obstacle to science development: the case of the Universidad Autónoma Metropolitana-Xochimilco"

*Ivan Chompalov* (Bulgaria), *Kristina Petkova* (Bulgaria), *Ivan Chalakov* (Bulgaria) and *Wesley Shrum* (Louisiana State University), "The brain drain from Eastern Europe: results from Bulgaria"

*Evgeny G. Vodichev* (Kennan Institute and Russian Academy of Sciences), "Small towns of big science: creation of 'science towns' in post-war Russia"

*John Wilkes* (Worcester Polytechnic Institute) and *Sandra Zink* (National Cancer Institute), "Scientists under contract: NCI's experience with 'working groups' of health physicists"

### 25. COGNITIVE STUDIES OF SCIENTIFIC THINKING

Stewart 314

**President:** *Peter Slezak* (University of New South Wales)

*Randall Chadwick* and *Michael Doherty* (Bowling Green State University), "How well do people understand the diagnostic implications of data?"

*William F. Brewer* (University of Illinois) and *Clark A. Chinn* (Center for the Study of Reading), "The role of anomalous data in theory change: evidence from cognitive psychology"

*Ryan D. Tweney* and *Susan T. Chitwood* (Bowling Green State University), "Confirmation confirmed"

*David Penner* and *David Klahr* (Carnegie Mellon University), "The effects of data errors during a scientific reasoning task"

### 26. TECHNOLOGY STUDIES AND THE ENVIRONMENT

Stewart 318

**Organizer and President:** *Boelie Elzen* (University of Nijmegen)

*Boelie Elzen* (University of Nijmegen), "How to fight Goliath: towards cleaner traffic and transport"

*José A. López Cerezo* and *Marta González* (University of Oviedo), "The many faces of uncertainty: forestry research and policy in Northern Spain"

*Reid Helford* (Loyola University, Chicago),  
"Defining an ecosystem: making the Oak  
Savanna 'real'"

*Les Levidow* (The Open University, UK),  
"Regulating agricultural biotechnology: A  
precautionary 'sound science'?"

*Frans A. van der Loo* and *W.T. de Groot* (Leiden  
University) and *Philip J. Vergragt* (Delft  
Technical University), "How windy are The  
Netherlands? Towards a technology for  
sustainability"

**Discussant:** *Knut Sorensen*  
(University of Trondheim)

## 27. COMPUTER NETWORKS

Stewart 320

**President:** *David Ferro* (Virginia Polytechnic  
and State University)

*Rebecca S. Henderson* (University of Washington),  
"The Seattle community network: combining  
virtual and physical communities"

*Alaina M. Kanfer* and *S. Leigh Star* (University of  
Illinois), "Hooking up, signing on, and spacing  
out: who will use large electronic scientific  
information systems and how?"

*Lynn Mulkey*, *Edward Albert*, and *Gail Satler*  
(Hofstra University) and *William Dougan*  
(Pepperdine University), "Priority in science:  
the case of cold fusion"

*Marc Smith* (UCLA), "Identity and accountability  
in virtual spaces"

*Dave Levinger* (Rensselaer Polytechnic Institute),  
"The information of a movement: electronic  
networks and the environmental question"

## 28. SCIENCE STUDIES AND SOCIAL THEORY: RECIPROCAL ANIMATIONS?: Part II

Stewart 322

**Organizers and Presidents:** *Peter Taylor*  
(Cornell University)  
and *Bill Lynch*  
(Cornell University)

*Thomas F. Gieryn* (Indiana University), "Again,  
Objectivity"

*Peter Taylor* (Cornell University), "What's (not) in  
the mind of scientific agents? Implicit psycho-  
logical models in the social studies of science"

*Arie Rip* (University of Twente), "Following actors,  
moving about, ...and then? A social theory of  
social research"

**Discussant:** *Randall Collins*  
(University of California, Riverside)

## SATURDAY, NOVEMBER 20

12:30 p.m. - 1:45 p.m.

### STHV ASSOCIATE & CONTRIBUTING EDITORS MEETING

Stewart 326

## SATURDAY, NOVEMBER 20

1:45 p.m. - 3:45 p.m.

### 29. CONSTRUCTIVIST PERSPECTIVES ON MEDICAL PRACTICES: Medical Practices and Social Policy

Stewart 310

**Organizers:** *Marc Berg* (University of Limburg)  
and *Monica Casper* (University of  
California, San Francisco)

**President:** *Monica Casper*  
(University of California, San Francisco)

*Agnes Meershoek* (University of Limburg),  
"Construction of disability by health insurance  
physicians: playing upon a double bind"

*Leah Lievrouw* (University of Alabama),  
"Constructing cholesterol consciousness:  
communication and change in medical practice"

*Julie Johnson* (Hagley Museum and Library),  
"Speaking for the dead: forensic medicine and  
American justice in the twentieth century"

*Klasien Horstman* (University of Limburg),  
"Medical examination for life insurance in the  
Netherlands, 1880-1920"

### 30. ECONOMICS AND ECONOMISM IN SCIENCE STUDIES

Stewart 313

**Organizer:** *Philip E. Mirowski*  
(University of Notre Dame)

**President:** *Art Diamond*  
(University of Nebraska, Omaha)

*Wade Hands* (Puget Sound), "The sociology of scientific knowledge and economics"

*Ellen O'Brien* (University of Notre Dame), "Constructing accuracy in national income accounts"

*Philip E. Mirowski* (University of Notre Dame), "The error budget in the estimation of physical constants as an arbitrage process"

*O.F. Hamouda* (Glendon College) and *B.B. Price* (MIT), "Verification in economics and history: a sequel to scientification"

### 31. SOCIAL THEORY AND SCIENCE STUDIES

Stewart 314

**President:** *Stuart Shapiro* (Brunel University)

*Ed Constant* (Carnegie Mellon University), "The cult of MER: collective consciousness in engineering science as in other ultrasocial groups"

*James Bohmann* (St. Louis University), "Are critical social theory and relativist sociology of science incompatible?"

*Harry M. Collins* and *Martin Kusch* (University of Bath), "Two kinds of action: a phenomenological study"

*Loet Leydesdorff* (University of Amsterdam), "The 'paradigm' as a self-organizing system"

*Thomas Schott* (University of Pittsburgh), "Science in global civilization: A falsification of Fukuyama's theory"

### 32. DELIBERATING ENVIRONMENTAL POLICY

Stewart 318

**President:** *Peter Schwartzman* (Virginia Polytechnic and State University)

*Amy Crumpton* (Virginia Polytechnic and State University), "Environmental racism and community response: democratizing technological policy-making in Texas"

*Lin Gan* (University of Lund), "Evolution of Clean Coal Technology in China"

*Dale Jamieson* and *Charles Herrick* (University of Colorado at Boulder), "The social construction of acid rain"

*W. Henry Lambright* (Syracuse Research Corporation), "The political construction of the global change research program"

*Steve Zehr* (Illinois Institute of Technology), "Scientific uncertainty, practical uncertainty and the centrality of scientific knowledge over environmental problems: the cases of acid rain, ozone depletion and global climate change"

### 33. RHETORICS OF REALISM: REPLICATION AND INTERPRETATION IN MUSEUM EXHIBITIONS

Stewart 320

**Organizer and President:** *Bruce Lewenstein*  
(Cornell University)

*Joseph O'Connell* (University of California at San Diego), "Leviathan and the discovery room"

*Tracy Teslow* (University of Chicago), "Representing race: artistic and scientific realism at the field museum of natural history"

*Steven W. Allison* (Cornell University), "Twice-domesticated phenomena: how a science centre reconstructs the laboratory in the exhibit hall"

**Discussant:** *Stephen Hilgartner*  
(Columbia University)

### 34. SCIENCE AND THE U.S. SUPREME COURT: PEER REVIEW AND EXPERT TESTIMONY (Open Discussion)

Stewart 322

**Organizers and Presidents:** *Wesley Shrum* (Louisiana State University)  
and *Sheila Jasanoff*  
(Cornell University)

## SATURDAY, NOVEMBER 20

4:00 p.m. - 5:30 p.m.

### 35. PRESIDENTIAL PLENARY: CAPTURE AND COMMITMENT IN THE SOCIOLOGY OF SCIENTIFIC KNOWLEDGE

Fowler Auditorium

**Organizer and President:** *Harry Collins*  
(University of Bath)

*Harry Collins* (University of Bath), "Neutrality and the analytic critique of science"

*Evelleen Richards* (University of Wollongong), "Taking sides in controversy analysis: Is it necessary?"

*Malcolm Ashmore* (Loughborough University), "Ending up on the wrong side: must the two forms of radicalism always be at war?"

*Thomas Brante* (Linköping University), "The re-introduction of subjectivism in the sociology of scientific knowledge"

## SATURDAY, NOVEMBER 20

6:00 p.m. - 7:00 p.m.

### 4S BUSINESS MEETING

Stewart 310

## SATURDAY, NOVEMBER 20

7:00 p.m. - 10:00 p.m.

### BANQUET

Purdue Memorial Union, North Ballroom

## SUNDAY, NOVEMBER 21

8:15 a.m. - 10:15 a.m.

### 36. STUDIES OF THE SOCIAL SCIENCES

Stewart 310

**President:** *Marianne de Laet*  
(Institute for Advanced Study)

*Arnold Wilts* (University of Amsterdam), "Economic policy and the science of economics, The Netherlands 1945-1960"

*Priscilla Weeks* (University of Houston-Clear Lake), "Post-colonial social science and development: a case from the Philippines"

*Randall Collins* (University of California, Riverside), "Why the social sciences won't become rapid-discovery, high-consensus science"

*Carla van El* and *Dick Pels* (University of Groningen), "Enrolling Durkheim: the stakes of school formation in the Netherlands"

*Stephan Fuchs* (University of Virginia), "Hermeneutics as organizational politics"

### 37. TECHNICAL DISCIPLINES

Stewart 313

**President:** *John Larson* (Purdue University)

*Eric Francoeur* (McGill University), "The forgotten tool: A preliminary socio-historical inquiry into the use and development of molecular models in the 20th century"

*David Bott* (University of Illinois, Urbana-Champaign), "Managing an interdisciplinary occupation: selected examples from sanitary engineering"

*Jarle Brosveet* (University of Trondheim), "Computer science — a deliberately useless discipline?"

*Stuart Shapiro* (Brunel University), "Bits and pieces: establishing sociological and epistemological foundations for technological disciplines"

### 38. DESIGNING

Stewart 314

**President:** *Shirley Gorenstein*  
(Rensselaer Polytechnic Institute)

*Conny Bakker* (TNO Product Centre, Delft) and *Philip Vergragt* (Delft University of Technology), "Ecological information for industrial designers"

*Cornelis Disco* (University of Twente), "Frankenstein's monster: designing a muon storage ring in high energy physics"

*Kathryn Henderson* (Texas A&M University), "Graphics and graphite: mixed electronic and paper world practices in design engineering"

*Ineke Malsch* (University of Twente), "Improving the ability of scientists to manage technological development"

### 39. METATHEORY

Stewart 318

**Presider:** *Karin Knorr-Cetina*  
(University of Bielefeld)

*W.F. Lawless* (Paine College) and *Teresa Castelao* (Virginia Polytechnic Institute and State University), "Lewinian interdependence and complementarity: theoretical, mathematical, and epistemological implications"

*Elke M. Kurz* (Bowling Green State University), "Popper versus Quine on psychology and epistemology"

*Renan Springer de Freitas* (Federal University of Minas Gerais), "The emergence of methodological principles in scientific research"

*Joop Schopman* (University of Innsbruck), "Does chaos theory finally close the era of physicalism?"

*Dick Pels* (University of Amsterdam), "Have we never been modern?"

### 40. THE USE OF MEDICAL COMPUTER SYSTEMS: SOCIAL AND ORGANIZATIONAL FACTORS

Stewart 320

**Organizers and Presiders:** *James G. Anderson*  
(Purdue University)  
and *Bonnie Kaplan*  
(Quinnipiac College)

*James G. Anderson* (Purdue University), "Physician use of a hospital information system: the role of social networks"

*Bonnie Kaplan* (Quinnipiac College), "Reflections on technology and laboratory work concerning how 'the same' is truly different"

*John Douard* (University of Texas Medical Branch), "Visual evidence and trust in clinical diagnosis"

### 41. NEGOTIATING DISCIPLINARITY: IDENTITY, KNOWLEDGE, AND TEXTS

Stewart 322

**Organizer and Presider:** *Ann M. Blakeslee*  
(University of Illinois  
at Urbana-Champaign)

*Ann M. Blakeslee* (University of Illinois at Urbana-Champaign), "Acquiring disciplinary identity: connections between learning and social context"

*Dorothy Winsor* (GMI Engineering and Management Institute), "Developing professional identity in engineering co-op students: a longitudinal study"

*Paul A. Prior* (University of Illinois at Urbana-Champaign), "Negotiating disciplinarity: a microhistory of textual production and reception in a graduate sociology seminar"

**Discussant:** *Thomas Huckin* (University of Utah)

### SUNDAY, NOVEMBER 21

10:30 a.m. - 12:30 p.m.

### 42. SCIENTOMETRICS

Stewart 310

**Presider:** *James G. Anderson* (Purdue University)

*Anton J. Nederhof*, *Robert J.W. Tijssen* and *Ed C.M. Noyons* (University of Leiden), "Comparison of journal-journal citation maps of linguistics and experimental psychology with maps based on expert knowledge: A validation study"

*Jay Stewart* (University of Hartford), "The Poisson-Lognormal model for bibliometric/scientometric distributions"

*Michael A. Rappa* (Massachusetts Institute of Technology), "Persistence in research communities: a hazard rate model of scientist contribution spans"

*Keiso Katsura* (Tokiwa University), "Combined use of cited/citing (mutual) author retrieval and co-cited author retrieval for identifying invisible colleges"

*Renger E. de Bruin* (University of Leiden) and *Marc Luwel* (Ministry of the Flemish Community), "Research evaluation in Belgium: the use of bibliometrics and its validation"

#### 43. TECHNOLOGICAL CHOICE

Stewart 313

**President:** *Robert Bartlett* (Purdue University)

*Magrethe Aune*, *Marit Hubak* and *Knut H. Sorensen* (University of Trondheim), "Technological comfort versus environmental sustainability in advertising of artefacts"

*Marit Hubak* and *Knut H. Sorensen* (University of Trondheim), "Energy saving policy and sanitary engineering in Norway"

*Jesse S. Tatum* (Michigan Technological University), "Supposing people got smart about technology"

*Jan Boes* and *Philip J. Vergragt* (Delft University of Technology), "Sustainability and endogenous technology"

#### 44. INSIGHT, INNOVATION, INVENTION

Stewart 314

**President:** *Keith Nier*

(Edison Papers, Rutgers University)

*Greg Myers* (Lancaster University), "From discovery to invention: the writing and rewriting of two patents"

*Maria F. Ippolito* and *Ryan D. Tweney* (Bowling Green State University), "Perception and insight: a process model of scientific insight"

*Charles Bazerman* (Georgia Institute of Technology), "The role and form of representations in mediating small group collaboration in technological innovation: Edison's laboratory notebooks"

**Discussant:** *Keith Nier*

(Edison Papers, Rutgers University)

#### 45. TALES FROM THE FRONT: TELLING STORIES ABOUT SCIENTIFIC MISCONDUCT

Stewart 318

**Organizers:** *Vivian Weil*, *Ullica Segerstrale* and *Warren Schmaus* (Illinois Institute of Technology)

and *C.K. Gunsalus*  
(University of Illinois)

**President:** *Martin Curd* (Purdue University)

*C.K. Gunsalus* (University of Illinois at Urbana-Champaign), "Uses of story telling: how telling stories works"

*Vivian Weil* (Illinois Institute of Technology), "Ethics in action: scientists discussing scenarios of problems in labs and research groups"

*Warren Schmaus* and *Ullica Segerstrale* (Illinois Institute of Technology), "Laboratory strife: allegations of scientific misconduct as expressions of anomie"

**Discussant:** *Don Buzzelli*

(National Science Foundation)

#### 46. MEDICINE

Stewart 320

**President:** *Lois Magner* (Purdue University)

*Stephen Lilley* (Sacred Heart University), "Genetic medicine and hyperreality"

*Stefan Timmermans* (University of Illinois at Urbana-Champaign), "'Out goes the bad air, in comes the good' to 'ABC': a sociological analysis of the development of CPR techniques"

*Ad A.M. Prins* (University of Amsterdam), "Alzheimer's disease and the rise of a biomedical framework in psychiatry: A comparison of the neurology and psychiatry of old age in the United States and the United Kingdom, 1930-1980"

*Laurent Dubois* (University of Michigan), "A spoonful of blood: blaming Haitians for AIDS"

*Steve Epstein* (University of California, Berkeley), "AIDS antivirals and the construction of (un)certainty: ironies and dilemmas in the democratization of science"

#### 47. GENDER, SCIENCE AND TECHNOLOGY

Stewart 322

**President:** *Robert Perrucci* (Purdue University)

*Judy Johns Schloegel* (Indiana University), "Games, play, and masculine self-image in modern science and engineering"

*Mary Brown Parlee* (Bowdoin College), "Research on 'premenstrual syndrome': controversies and consolidation, 1968-1993"

*María Inmaculada de Melo-Martín* (University of Oviedo), "New reproductive technologies: social dimensions and democratic participation"

*Pierrette Kim Jamison* (Syracuse University), "Towards a feminist discourse of technology"

**48. ACADEMIC-INDUSTRY RELATIONS:  
NEW EMPIRICAL AND THEORETICAL  
WORK**

Purdue Memorial Union 130

**Organizer:** *Henry Etzkowitz* (State University of New York at Purchase)

**President:** *Peter Healey*  
(Science Policy Research Group, London)

*Kathryn Packer* (Anglia University, UK), "The uses of patents"

*Holly Raider* (University of Groningen and Columbia University), "University-industry contractual research: the relationship between formal and informal relations"

*Henry Etzkowitz* (SUNY, Purchase) and *Kevin Dougherty* (Manhattan College), "From the welfare state to the entrepreneurial state (and back again): science and industrial policy in the States of the United States"

*Vincent F. Wu* (Rensselaer Polytechnic Institute), "University-industry technology transfer: Industrial firms' organizational practices"

