Edward J. Hackett

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Education

Colgate University (B.A., 1973, Social Relations)
Cornell University (Ph.D., 1979; M.A., 1976, Sociology)

Employment

Director, Division of Social and Economic Sciences, National Science Foundation, July 2006- (on loan from university);

Professor, School of Human Evolution and Social Change, Arizona State University, Tempe, AZ (2005 -); also appointed in the School of Life Sciences, School of Sustainability, and Consortium for Science Policy and Outcomes;

Professor, Department of Sociology, Arizona State University, Tempe, AZ (1997- 2005);

National Science Foundation, Program Officer, Science and Technology Studies Program (Rotator, January 1996-August1998);

Rensselaer Polytechnic Institute, Department of Science and Technology Studies Assistant to Associate Professor (1984-1997);

Rockefeller University, Adjunct Professor, Laboratory of Molecular Genetics and Informatics (1992-1995);

American Institutes for Research, Cambridge, MA, Research Scientist, (1980-1982);

Boston University, Center for Applied Social Science, Research Associate, (1979-1984);

Cornell University, Department of Sociology, Postdoctoral Fellow (1978-1979).

Publications

Handbook of Science and Technology Studies. Edward J. Hackett, Olga Amsterdamska, Michael E. Lynch, and Judy Wajcman, eds., MIT Press, 2008.

Peerless Science: Peer Review and U.S. Science Policy. Daryl E. Chubin and Edward J. Hackett, State University of New York Press, 1990.

Articles

"Essential Tensions: Identity, Control, and Risk in Research," Edward J. Hackett, Social Studies of Science, 35 (5) October 2005.

"Tokamaks and Turbulence: Research Ensembles, Policy and Technoscientific Work." Edward J. Hackett, David Conz, John Parker, Jonathon Bashford, and Susan DeLay. Research Policy 33 (5): 747-67, 2004.

"Bonding and Bridging: Understanding the Relationship between Social Capital and Civic Action." Larissa Larsen, Sharon Harlan, Robert Bolin, Edward Hackett, Diane Hope, Andrew Kirby, Amy Nelson, Tom Rex, Shappard Wolf. Journal of Planning Education and Research, 24: 64-77, 2004.

"The Ecology of Technological Risk in a Sunbelt City." Bolin, Bob, Amy Nelson, Edward J. Hackett, K. David Pijawka, C. Scott Smith, Diane Sicotte, Edward K. Sadalla, Eric Matranga, Maureen O'Donnell. Environment and Planning A 34:317-39, 2002.

"Environmental Equity in a Sunbelt City: The Spatial Distribution of Toxic Hazards in Phoenix, Arizona." Bolin, Bob, Eric Matranga, Edward J. Hackett, Edward K. Sadalla, K. David Pijawka, Debbie Brewer, Diane Sicotte. Environmental Hazards 2: 11-24, 2000.

"Setting Boundaries between Science and Law: Lesson from Daubert v. Merrill-Dow Pharmaceuticals, Inc." Shana Solomon and Edward J. Hackett, Science, Technology and Human Values 21(2)131-56, 1996.

"Peer Review and the Courts, or When Scientists Get 'Real'," Daryl E. Chubin, Edward J. Hackett, and Shana M. Solomon, Accountability in Research, 4(1): 1-8, 1996.

"A Social Control Perspective on Scientific Misconduct," Edward J. Hackett, Journal of Higher Education 65(3):242-260, 1994. Reprinted in John Braxton, ed., Perspectives on Scholarly Misconduct in the Sciences. Columbus, Ohio: Ohio State University Press, 1999.

"A New Perspective on Scientific Misconduct," Edward J. Hackett, Academic Medicine 68 (9): S72-S76, 1993.

"Industry, Academe, and the Values of Undergraduate Engineers," Edward J. Hackett, Jennifer Croissant, and Blair Schneider, Research in Higher Education 33(3): 275-95, 1992. Reprinted in Jennifer Croissant and Sal Restivo, eds., Degrees of Compromise. SUNY Press, 2000.

"Women's and Men's Perspectives about the Effects of New Technology at Work," Edward J. Hackett, Philip H. Mirvis, Amy L. Sales. Group and Organization Studies 16(1): 60-85, 1991.

"The Implementation and Adoption of New Technology in Organizations: The Impact on Work, People, and Culture," Philip H. Mirvis, Amy L. Sales, Edward J. Hackett. Human Resource Management 30(1): 113-39, 1991.

"Science as a Vocation in the 1990s: The Organizational Culture of Academic Science," Edward J. Hackett, Journal of Higher Education 61(3):241-279, 1990. Reprinted in Jennifer Croissant and Sal Restivo, eds., Degrees of Compromise. SUNY Press, 2000.

"Funding and Academic Research in the Life Sciences," Edward J. Hackett. Science and Technology Studies 5(3/4): 134-47, 1988.

"Promotion Opportunity in Organizations: Causes and Consequences," William T. Markham, Sharon L. Harlan, Edward J. Hackett. Research in Personnel and Human Resources Management 5: 223-287, 1987.

"Federal Job Training Programs and Employment Outcomes: Effects by Sex and Race of Participants," Sharon L. Harlan and Edward J. Hackett. Population Research and Policy Review 4: 235-265, 1985.

"Employee Participation in a Quality Circle Program: Impact on Quality of Work Life, Productivity, and Absenteeism," Mitchell L. Marks, Philip H. Mirvis, Edward J. Hackett, James Grady. Journal of Applied Psychology 71(1): 61-69, 1986. This paper received the Scholarly Contribution Award from the Organizational Behavior Division of the Academy of Management, 1987.

"Work and Work Force Characteristics in the Nonprofit Sector," Philip H. Mirvis and Edward J. Hackett. Monthly Labor Review, April 1983:3-12.

Chapters

"Ecology Transformed: NCEAS and the Changing Patterns of Ecological Research." Edward J. Hackett, John N. Parker, David Conz, Diana Rhoten, and Andrew Parker. Forthcoming in Gary Olson, Ann Zimmerman, Nathan Bos, eds., Science on the Internet, MIT Press, October 2008.

"La peer review nella teoria e nella pratica" and "Incrementare la 'peer review': Il posto della valutazione della ricera." Both by Daryl E. Chubin and Edward J. Hackett, pp. 89-124 and 355-90 in R. Viale and A. Ceroni, eds., Valutare la Scienza, Rubbetino: 2003.

"Organizational Perspectives on University-Industry Research Relations," in Jennifer Croissant and Sal Restivo, eds., Degrees of Compromise. SUNY Press, 2000.

"Interdisciplinary Initiatives at the National Science Foundation," Edward J. Hackett, pp. 248-259 in Peter Weingart and Nico Stehr, eds., Practising Interdisciplinarity, University of Toronto Press, 2000.

"Trends and Opportunities in Science and Technology Studies," Edward J. Hackett in David D. Kumar and Daryl E. Chubin, eds., Science, Technology and Society: A Sourcebook on Research and Practice. New York: Plenum, 2000.

"The Place of Peer Review in Science and Science Policy," Edward J. Hackett, in Mark Frankel and Jane Cave, eds., Evaluating Science and Scientists. Budapest: Central European University Press, 1997.

Research Grants

National Science Foundation, 2004-07, Co-Principal Investigator (with Diana Rhoten, Social Science Research Council), "Integrative, Interdisciplinary Graduate Education: New Concepts and Approaches for Assessment, 0355353, $1,277,617 (plus supplements).

National Science Foundation, 2000-05; 2005 - , Co-Principal Investigator, "Integrative Graduate Education and Research Training in Urban Ecology," 9987612, $2,698,494.

National Center for Environmental Analysis and Synthesis, Santa Barbara, CA, 1999-04, Principal Investigator, "Ecology Transformed?" Support to study and to organize working groups about new forms of research collaboration, $41,000.

National Science Foundation, 1995-04, Principal Investigator, "A Longitudinal Study of Research Groups in Science and Engineering," 9511634, $447,813.

National Science Foundation, 1997- , Core Scientist, "Central Arizona-Phoenix Long Term Ecological Research Site: Land Use Change and Ecological Processes in an Urban Ecosystem of the Sonoran Desert, $4,699,239.

Rensselaer Polytechnic Institute, Strategic Initiatives Fund, 1994-95, Principal Investigator, "Educational Innovation, Academic Performance, and Values," $30,000.

National Science Foundation, 1993-96, Principal Investigator, "Understanding Academic Science and Engineering," SBE92-22782, $111,920.

Rensselaer Polytechnic Institute, Harlan and Lois Anderson Center for Innovation in Undergraduate Education, 1992-93, Principal Investigator, "Educational Innovation, Academic Performance, and Values," $21,000.

National Science Foundation, 1987-1990, Co-Principal Investigator, "Ethical and Value Issues in Research Centers," BBS87-11341, $202,618.

National Science Foundation, 1985-1987, Principal Investigator, "Effects of Incremental Funding Changes in the Life Sciences," PRA85-14061, $39,896.

New York State, Governor's Office of Employee Relations, Committee on the Work Environment and Productivity, 1986-1988, Principal Investigator, "Effects of New Technology in New York State Agencies," $26,478.

Co-Principal Investigator of six organizational research projects for private firms; Deputy Director of Project Connections, a large-scale, multi-year study funded by the Administration for Children, Youth and Families, DHHS (1981-82).

Research Interests

Science, technology and society
Social stratification and inequality
Organizational behavior
Environmental sociology
Science and technology policy
Group structure and dynamics

Courses taught

Sociology of Science
Organizational Theory
Social Stratification
Fraud and Misconduct in Science
Quantitative Analysis
Statistics
Technology and Society
Technology and the Future of Work
Research Methods
Technology, Productivity and Policy
Advanced Research Methods
Sociology

Major Reports

"Peer Review for the 21st Century: Applications to Education Research." Edward J. Hackett and Daryl E. Chubin, National Research Council, National Academy of Sciences, August 2003. Available at www.nas.org.

"The Phoenix Area Social Survey: Community and Environment in a Desert Metropolis." Sharon L. Harlan, Larissa Larsen, W. Shappard Wolf, Tom Rex, Amy Nelson, Ed Hackett, Bob Bolin, Andrew Kirby, Diane Hope. Tempe, AZ: Center for Environmental Studies, March 2003. www.asu.edu/clas/sociology/pass.html

"Understanding Academic Science and Engineering: Phase I Report to the National Science Foundation, Edward J. Hackett, 1995.

"Educational Innovation, Academic Performance and Values: Report of the Second Survey of Rensselaer Undergraduates, Edward J. Hackett, David Levinger, and others, 1995.

"Understanding the Social Dynamics and Performance of Research groups," report commissioned by the COSMOS Corporation in support of their NSF-funded evaluation of the EPSCOR program, 1995.

"Educational Innovation, Academic Performance and Values: Report of the Baseline Survey," Edward J. Hackett and Shana M. Solomon, 1993.

"Science in the Steady State: The Changing Research University," Edward J. Hackett. In Funding for Higher Education, NTIS #PB88-177 928IAS, 1988.

The Implementation of New Technology in New York State Agencies, Edward J. Hackett and Sharon L. Harlan. Albany, NY: Governor's Office of Employee Relations, Committee on the Work Environment and Productivity, 1987.

Project Connections Final Report. Theodore R. Cromack, Edward J. Hackett, Charles N. Goldberg, Gwen Morgan, Chris Caswell. Cambridge, MA: AIR, 1982.

"An Evaluation of NIH Resource Allocations and Research Outputs in Bioscience: Bioscience Specialty Studies," Robert McGinnis, Edward J. Hackett, Carl B. Backman, Daryl E. Chubin, Kenneth E. Studer. Ithaca, NY: Cornell University, 1979.

Short Pieces and Reviews

"Introduction" to special issue on scientific collaboration, Social Studies of Science 35 (5): 667-672, 2005.

"Research Misconduct," Edward J. Hackett, John Parker, David Conz. Entry for Science, Technology, and Society: An Encyclopedia, Sal Restivo, ed., New York: Oxford University Press, 2005.

"Peer Review," Daryl E. Chubin and Edward J. Hackett. Entry for the Encyclopedia of Science, Technology, and Ethics (revised ed.), Carl Mitcham, ed., New York: macMillan, 2005.

"Four Observations about 'Six Domains of Research Ethics'." Science and Engineering Ethics 8 (2) (April 2002).

Comment on "The Economics of Science," Knowledge and Policy 9 (2/3), 1996: 84-86..

Review of Places of Inquiry by Burton Clark, Nature, December 1995.

Review essay of Striking the Mother Lode in Science: The Importance of Age, Place, and Time by Paula Stephan and Sharon Levin, Science, Technology & Human Values 19 (2): 247-252 (Spring 1994).

Review of Responsible Science by a National Academy of Sciences commission, chaired by E.E. David (with S.M. Solomon). BioScience 43 (10): 717-19 (November 1993).

Review of The Idea Factory by Pepper White, The Journal of Higher Education 64 (5): 607-8 (September/October 1993).

Review of Scholarly Communication and Bibliometrics edited by Christine L. Borgman. Contemporary Sociology 21: 142-3 (January 1992).

"On the virtues of self-study." (Daryl E. Chubin and E.J. Hackett) Science, Technology, and Human Values 14 (1): 96-99 Winter 1989).

"Science policy and the ecology of research." (Review of Strengthening Academic Science by David Eli Drew with Patricia Raymond.) Contemporary Sociology,1988.

Review of False Prophets: Fraud and Error in Science and Medicine by Alexander Kohn. Isis 79: 3: 298: 500-502. (1988).

"The plight of academic marginals." The Scientist July 27, 1987: 13.

Review of Frame Analysis by Erving Goffman. Cornell Journal of Social Relations, 10: 2 (277-279).

Review of Stateville: The Penitentiary in Mass Society by James B. Jacobs. Cornell Journal of Social Relations 12: 1 (75-80).

Review of Industrial Sociology (3rd Ed.) by S.R. Parker, J. Child, and M.A. Smith. Technology and Culture, 1980 (666-668).

Selected Recent Professional Presentations

"Environmental Research Charrette: An Experiment in Interdisciplinary Education and Collaboration," with Diana Rhoten, American Association for the Advancement of Science, San Francisco, February, 2007. Revised versions presented in invited colloquia at the University of Virginia, March 2007; Indiana University, September 2007.

"Both Sides, Now: The Dynamics of Human and Social Dynamics," invited presentation to meeting of principal investigators of NSF's Human and Social Dynamics Program, September 2006.

"Encouraging Transformative Research," Task Force on Transformative Research, National Science Board, Santa Fe, December 2005.

"Cultural Contradictions of Science," Friday Science Lecture Series, Colgate University, Hamilton, NY, September, 2005.

"Peer Review and Transformative Research," Task Force on Transformative Research, National Science Board, Arlington, VA, August 2005.

"Essential Tensions: Paradoxes of Identity, Risk, and Control in Research," Annual Meetings of the American Sociological Association, San Francisco, August 2004.

"Emerging Patterns of Scientific Collaboration," Annual Meetings of the American Association for the Advancement of Science, Seattle, February 2004.

"Peer Review in Science and Science Policy: Challenges for the 21st Century." Keynote presentation, international workshop on peer review, sponsored by the Spanish Foundation for Science and Technology (FECYT), Madrid, December 2003.

"Interdisciplinarity, Transdisciplinarity, and the (Re)Organization of Research." Invited presentation to an NSF-sponsored workshop on Research policy as an Agent of Change, Tucson, AZ, October 2003.

"Disciplinary and Interdisciplinary Collaboration," Invited presentation to the NSF Advisory Committee on Environmental Research and Education, Santa Barbara, CA, October 2003.

"New Patterns of Scientific Collaboration," International Society for the History, Philosophy, and Social Studies of Biology, Vienna, August 2003.

"Interdisciplinarity and the Social Organization of Science," Invited presentation for a workshop on Interdisciplinarity, National Academy of Sciences, May 2003.

"Peer Review for the 21st Century: Applications for Education Research," invited presentation for a workshop on Peer Review in Education Research, National Academy of Sciences, February 2003.

"Patterns of Scientific Collaboration." Invited presentation, Symposium on Knowledge Environments for Science, National Science Foundation, November 25-6, 2002. Invited speaker.

Workshop on the science of collaboratories, University of Michigan, September 25-27, 2002. Invited participant.

"Big Biological Science," invited presentation to the Cancer Policy Board, Institute of Medicine, National Academy of Sciences, Washington, D.C., July 2002.

"Patterns of Research Collaboration," National Center for Environmental Analysis and Synthesis, April 2001.

"New Challenges of Peer Review" Ministerio da Ciencia e Technologia, Brasilia, Brazil, November 2000; presented a 3-hour seminar for Latin American science and technology officials.

"The Future of the Public Research University," Tucson, Arizona, November 1999.

"The Conduct of Scientific Research," Office of Research Integrity, National Institutes of Health, Bethesda, MD, November 1999. Invited speaker..

"Models of Research Group Behavior," workshop on research collaboration, Sigtuna, Sweden, September 1999, sponsored by the European Union.

"Science, Technology and Society," Hiroshima, Japan, February 1997, sponsored by the Japan Society for the Promotion of Science.

Approximately 40 additional talks and presentations at academic conferences, universities, and for professional associations.

Other Professional Activities

Member, Sustainability Roundtable, National Academy of Sciences, 2007-8.

Member, working group on transformative research, National Science Board, 2005-2006.

Associate Editor, Journal of Biomedical Discovery and Collaboration, 2005-

Member, U.S. National Committee of the International Union for the History and Philosophy of Science, organized under the auspices of the National Academy of Sciences, 2000-03.

Faculty Honors Council, Barrett Honors College, ASU and Chair, Committee on Research and Creative Activities (2001-2); Strategic Planning Subcommittee (2002-03).

Program officer, Science and Technology Studies Program, National Science Foundation, 1996-8. While at NSF I was a member of a Foundation-wide working group that proposed new programs for developing the scientific and technical abilities of underrepresented minorities (the Human Resource Development Working Group). I also worked on Foundation-wide initiatives in information technology (Knowledge and Distributed Intelligence) and graduate training (IGERT) and was a member of the Decision Council for the Social and Behavioral Sciences Division.

Council member, Society for Social Studies of Science 1998-2001. Chair, Publications Committee, 1998-99; Chair, Fleck Prize Committee, 2000-01.

Council Member, Section on Science, Knowledge and Technology, American Sociological Association; Chair, awards committee, 1997-2000.

Panel member, National Science Foundation: Information Technology Research (2000; 2001); STS Program (1990-93; 1995); National Young Investigators Program, 1994; STS Fellowship Program (1989); National Institutes of Health: Ethical, Legal and Social Implications of the Human Genome Initiative Program (1999; 2000); Social Implications of Nanotechnology (2003); Societal Dimensions of Engineering, Science and Technology (2005).

Joined *amicus* brief on peer review for the U.S. Supreme Court case of Daubert v. Merrell Dow Pharmaceuticals (the "bendectin" case which resolved rules of evidence governing expert testimony).

Office of Technology Assessment, U.S. Congress (1987). Prepared a contractor's report for OTA's assessment, "Science in the Steady State: The Changing Research University."

Reviewer for American Sociological Review; Social Studies of Science; Sociological Quarterly; Science, Technology & Human Values; Science, Technology and Society; Science; The Sociological Quarterly; Journal of Higher Education; Science and Engineering Ethics; Human Organization; Research Policy; Urban Anthropology; International Journal of Conflict Management; Knowledge; Research Evaluation, National Science Foundation; National Institutes of Health; National Endowment for the Humanities; National Academy of Sciences; McGraw-Hill; State University of New York Press; D. Reidel; Brooks-Cole; Johns Hopkins University Press; University of California Press; University of Toronto Press; Oxford University Press; Lawrence Erlbaum; Blackwell; MIT Press; University of Wisconsin Press; Harvard University Press.

Honors and Awards

Center Fellow, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, 2004-05.

Distinguished Teaching nomination, ASU, 1999

Senior Fellow, Japan Society for the Promotion of Science, 1997.

Fellow, Mellon Foundation, to support my work in the Laboratory of Molecular Genetics and Informatics, Rockefeller University, 1992-93. Thanks to Joshua Lederberg for arranging the fellowship.

Scholarly Contribution Award, Organizational Behavior Division, Academy of Management, 1987, to M.L. Marks, P.H. Mirvis, E.J. Hackett, J. Grady for the "quality circles" paper.

NIMH Postdoctoral Fellowship, 1978-79; Predoctoral Fellowship, 1976-78.

Undergraduate awards: NSF Graduate Fellowship, Honorable Mention, 1974; Connecticut State Scholar, 1969-73; Colgate University Scholarship, 1969-73; National Merit Scholarship Commendation, 1969.

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