

**FEDERAL GOVERNMENT PUBLICATIONS**

DHHS Working Group on the Costs of Research, "Management of Research Costs: Indirect Costs," November 1991.

GAO, "University Research: Effect of Indirect Cost Revisions and Options for Future Changes," GAO/RCED-95-74, 1995.

\_\_\_\_\_, "Regulatory Compliance for NIH Grantees," GAO/HEHS-96-90R, 1996.

\_\_\_\_\_, "Assuring Reasonableness of Rising Indirect Costs on NIH Research Grant—A Difficult Problem," Washington, D.C.: U.S. General Accounting Office, March 16, 1984.

\_\_\_\_\_, "Regulatory Burden: Some Agencies' Claims Regarding Lack of Rule-making Discretion Have Merit," Washington, D.C.: U.S. General Accounting Office, GAO/GGD-99-20, 1999.

House Science Committee, report on H.R. 2282, July 11, 1991.

\_\_\_\_\_, report, April 21, 1997.

Knezo, Genevieve J., "Indirect Costs at Academic Institutions: Background and Controversy—Issue Brief," Washington, D.C.: The Congressional Research Service, updated February 3, 1999.

\_\_\_\_\_, "Indirect Costs for R&D at Higher Education Institutions: Annotated Chronology of Major Federal Policies," Washington, D.C.: The Congressional Research Service, updated January 24, 1995.

National Institutes of Health, DHHS, "Indirect Costs," February 1999.

National Science and Technology Council, "Renewing the Federal Government—University Research Partnership for the 21st Century," Washington, D.C., April 1999, accessed at <http://www.whitehouse.gov/WH/EOP/OSTP/html/rand/index.htm>.

National Science Foundation, "Federally Sponsored Research: How Indirect Costs Are Charged by Educational and Other Research Institutions," 1991.

\_\_\_\_\_, "Scientific and Engineering Research Facilities at Colleges and Universities 1998: An Overview," 1998.

\_\_\_\_\_, WebCASPAR data system, 1999, accessed at <http://caspar.nsf.gov/>

Office of Management and Budget, "Cost Principles for Educational Institutions," Notice: Action: Final Revision and Recompilation of OMB Circular A-21, in *Federal Register*, Vol. 61, No. 90, 1996, pp. 20879–20941.

\_\_\_\_\_, "Government-wide Grants Management Requirements," Action: Final Revision of Circulars A-21, A-87, A-102, A-110, and A-122 and Interim Final Revision of OMB Circular A-110, in *Federal Register*, Vol. 62, No. 168, 1997, pp. 45933–45936.

\_\_\_\_\_, "Cost Principles for Educational Institutions," Action: Final Revision and Interim Final Revision of OMB Circular A-21, "Cost Principles for Educational Institutions," in *Federal Register*, Vol. 63, No. 104, 1998, pp. 29785–29792.

Office of Science and Technology Policy, "Renewing the Promise: Research-Intensive Universities and the Nation," Washington, D.C., December, 1992.

\_\_\_\_\_, "A Renewed Partnership: An Examination of Federal Government–University-Industry Interactions in U.S. Research and Higher Education in Science and Engineering," 1986.

Senate Committee on Labor and Human Resources, report, October 15, 1997.

## **FEDERAL GOVERNMENT WEB SITES**

Animal Welfare Act As Amended (7 U.S.C. 2131–2156), accessed at <http://www.nal.usda.gov/awic/legislat/awa.htm>.

*Federal Register* through the Government Printing Office, accessed at [http://www.access.gpo.gov/su\\_docs/aces/aces140.html](http://www.access.gpo.gov/su_docs/aces/aces140.html).

National Institutes of Health, Division of Animal Welfare, Office for Protection from Research Risks, Frequently Asked Questions About the Public Health Service Policy on Humane Care and Use of Laboratory Animals, accessed at [http://www.nih.gov/grants/oprr/faq\\_labanimals1997.htm](http://www.nih.gov/grants/oprr/faq_labanimals1997.htm).

Office of Management and Budget, OMB Circulars, accessed at <http://www.whitehouse.gov/OMB/circulars/index.html>.

Public Health Service Policy on Humane Care and Use of Laboratory Animals, revised September 1998, reprinted March 1996, accessed at <http://www.nih.gov:80/grants/oprr/phspol.htm>.

## NONGOVERNMENTAL ORGANIZATION PUBLICATIONS

- Arthur Andersen, LLP, "The Costs of Research: Examining Patterns of Expenditures Across Research Sectors," prepared for the Government-University-Industry Research Roundtable, Chicago, Ill., March 1996.
- Association of American Universities, "Indirect Costs Associated with Federal Support of Research on University Campuses: Some Suggestions for Change," Washington, D.C.: AAU, December 1988.
- Council on Governmental Relations, "Indirect Cost Rates at Research Universities—What Accounts for the Differences," Washington, D.C.: COGR, November 1987.
- \_\_\_\_\_, "Managing Externally Funded Programs at Colleges and Universities: A Guideline to Good Management Practices," Washington, D.C.: COGR, May 1998a, accessed at <http://www.cogr.edu/good.htm>.
- \_\_\_\_\_, "Factors That Influence Facilities & Administrative Cost Rates at Research Intensive Universities," Washington, D.C.: COGR, June 1, 1998b, accessed at <http://www.cogr.edu/finalvariances.htm>.
- Federal Coordinating Council for Science, Engineering, and Technology, "In the National Interest: The Federal Government and Research Intensive Universities," 1992.
- Federation of American Societies for Experimental Biology, "Graduate Education: Consensus Conference Report," 1997, also 1998 edition.
- National Research Council, "Interim Report: Approaches to Cost Recovery for Animal Research: Implications for Science, Animals, Research Competitiveness, and Regulatory Compliance," 1998, accessed at [http://www4.nas.edu/cls/ilarhome.nsf/web/cost\\_recovery?OpenDocument](http://www4.nas.edu/cls/ilarhome.nsf/web/cost_recovery?OpenDocument).
- Norris, Julie T., and Jane A. Youngers, "Sponsored Programs Offices in Higher Education: A Continuing Evolution Responding to Federal Requirements," Washington, D.C.: COGR, accessed at <http://www.cogr.edu/NorrisYoungers.htm>.
- Rosenzweig, Robert M., "The Politics of Indirect Costs," Washington, D.C.: COGR, August 1998, accessed at <http://www.cogr.edu/Rosenzweig.htm>.
- "Stresses on Research and Education at Colleges and Universities: Institutional and Sponsoring Agency Responses," report of a collaborative inquiry conducted jointly by the National Science Board and the Government-University-Industry Research Roundtable, August 1994.
- "Stresses on Research and Education at Colleges and Universities: Phase II," transcript from a meeting at the National Academy of Sciences, February 26, 1997.

## ARTICLES AND BOOKS

- Andrews, Rebecca, "Hazardous Waste Disposal: An Offal Problem for Laboratories," *The Scientist*, Vol. 5, No. 1, January 7, 1991.
- Bennett, B. T., M. J. Brown, and J. C. Schofield, *Essentials for Animal Research: A Primer for Research Personnel*, Second Edition, revised October 1994.
- Fairweather, James, Steven, "Reputational Quality of Academic Programs: The Institutional Halo," *Research in Higher Education*, Vol. 28, No. 4, 1988, pp. 345–355.
- Feller, Irwin, "Matching Fund and Cost-Sharing Experiences of U.S. Research Universities," prepared for the National Science Foundation, March 1977.
- \_\_\_\_\_, "The Changing Academic Research Market," State College, Pa.: Pennsylvania State University, 1995.
- \_\_\_\_\_, "Social Contracts and Institutional Support of Academic Research," State College, Pa.: Pennsylvania State University, 1996.
- \_\_\_\_\_, and Roger Geiger, "The Dispersion of Academic Research in the 1980s," *The Journal of Higher Education*, Vol. 66, No. 3, 1995.
- Goldman, Charles, letter from university official, June 10, 1999.
- Grunig, Stephen D., "Research, Reputation, and Resources: The Effect of Research Activity on Perceptions of Undergraduate Education and Institutional Resource Acquisition," *Journal of Higher Education*, Vol. 68, January/February 1997, pp. 17–52.
- Lakoff, Sanford A., "Accountability and the Research Universities," in Bruce L. R. Smith and Joseph J. Karlesky, eds., *The State of Academic Science: Background Papers*, Vol. 2, New York: Change Magazine Press, 1978, p. 173.
- Massy, William F., and Jeffrey E. Olson, "Overhead Diversity: How Accounting Treatments, Facilities Economics, and Faculty Salary Offsets Affect University Indirect Cost Rates," Stanford, Calif.: Stanford Institute for Higher Education Research Discussion Paper, November 1991.
- May, Robert M., and Stuart C. Sarson, "Revealing the Hidden Costs of Research," *Nature*, April 8, 1999.
- McGuire, Joseph W., Marie L. Richman, and Robert F. Daly, "The Efficient Production of 'Reputation' by Prestige Research Universities in the United States," *Journal of Higher Education*, Vol. 59, July/August 1988, pp. 365–389.
- Noll, Roger G., and William P. Rogerson, "Chapter Five: The Economics of University Indirect Cost Reimbursement in Federal Research Grants," in Roger G. Noll, ed., *Challenges to Research Universities*, Washington, D.C.: Brookings Institute, 1998.