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ANIMAL CARE AND USE COMMITTEES

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Animal Care and Use Committees

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Animal Welfare

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ANIMAL CARE AND USE COMMITTEE SPECIAL REFERENCE BRIEF

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INTRODUCTION

The animal care and use committee (ACUC) operates at the institutional level and is mandated by federal laws and national policies. Functions of the ACUC include 1) the review of the animal care portions of projects to determine if the appropriate animal model and appropriate numbers of animals have been chosen, and if personnel are properly trained and knowledgeable in the proper use of anesthesia, analgesia and euthanasia, 2) to conduct semi-annual, unannounced inspections of facilities to ensure the humane care, treatment and transport of animals, and 3) to support the attending veterinarian, making sure he or she has access to all animal facilities, and aiding the veterinarian in training of personnel and review of protocols and facilities.

The effectiveness of the animal care and use committee is largely determined by the institutional administration. The ACUC effectiveness may be enhanced by tailoring the ACUC to the specific needs of the institution, staffing the committee with competent, committed members, and by giving institutional support in the form of resources. The ACUC membership includes scientists who use animals, veterinarians, and lay members (lay members are community members not affiliated with the scientific community). The ACUC, while it must be responsive to the needs of researchers, must also ensure that research is appropriate and animals are treated in a humane manner.

This document covers general issues dealing with animal care and use committees. Topics include industrial applications, ethics, investigator and public attitudes toward the ACUC, membership and training issues, policy, protocol review, and regulation of the ACUC. As a Special Reference Brief, this document contains not only reference materials in the collection of NAL, but also references from outside sources.

The authors would like to thank Jennifer Lyons-Carter for all her efforts in the preparation of this document.

ANIMAL CARE COMMITTEES - GENERAL

001 "Animal care use committees: Deciding what is appropriate, necessary, and humane." M.D. Snyder, N.K. Hinton, J.F. Cornhill, and L.E. Elfner Science Teacher 59(2):28 (February 1992). Descriptors: animal models in research, management, science teachers, ACUC.

002 "Agricultural animal care review." G. Joiner Animal Welfare Information Center Newsletter 1(4):3,5 (October-December 1990). NAL call number: aHV4701.A952 Descriptors: livestock, committees, bioethics, animal welfare, ACUC.

003 Animal Care and Use Committee Office of the Deputy Administrator, National Program Staff, U.S. Department of Agriculture, Agricultural Research Service Washington, DC; 1990. NAL call number: IP M910313031

004 Administration, Education, and the Animal Care Committee (Conference Proceedings) Public Responsibility in Medicine and Research (PRIM & R) and Tufts University School of Veterinary Medicine, PRIM & R, 1989, 5 p. NAL call number: HV4915 A35 Descriptors: ACUC, laboratory animals, conference.

005 "The Animal Welfare Act and the zoo: A positive approach." G.H. Olsen Journal of Zoo and Wildlife Medicine 20(2):135-137 (June 1989). NAL call number: SF601.J6 Descriptors: zoo animals, legislation, regulations.

006 "Institutional animal care and use committee: Review of wildlife field research." P. Bowman Lab Animal 18(3):28-30 (April 1989). NAL call number: QL55.A1L33 Descriptors: wildlife management, wild animals, animal research, research institutes, committees, animal welfare, surveys.

007 "Measuring Merit in Animal Research." R. Dresser Theoretical Medicine 10,21-34 (March 1989). Descriptors: ethics, animal, medicine, research, merit review.

008 "Oversight of the care and use of animals in animal behavior research in the United States." M. Stephens In: Animal Care and Use in Behavioral Research: Regulations, Issues, and Applications J.W. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 2-8. NAL call number: aHV4762 A3A64 Descriptors: Animal Welfare Act, committees, field research.

009 "Surveillance of animal care and use in Canada." G.R. Michener Animal Care and Use in Behavioral Research:

Regulations, Issues, and Applications J.D. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 9- 14. NAL call number: aHV4762 A3A64 Descriptors: Canadian Council on Animal Care, experimental animals, guidelines, animal care committee.

"The Animal Welfare Act's impact on the scientist." J.W. Glosser, and P.B. York Journal of the American College of Toxicology 7(4):447-451 (1988). NAL call number: RA1190 J61 Descriptors: law, United States, enforcement, amendments.

Field Research Guidelines: Impact on Animal Care and Use Committees F.B. Orlans (ed.), Scientists Center for Animal Welfare, Bethesda, MD; 1988, 23 p. NAL call number: HV4704.F5 Descriptors: treatment of animals, wildlife, standards.

"Institutional animal care and use committees: A new set of clothes for the emperor?" L. Finsen Journal of Medicine and Philosophy 13(2):145-158 (May 1988). Descriptors: animal welfare, ethics, National Institutes of Health.

013 "Animal ethics committees." W.P. Anderson Australian and New Zealand Journal of Medicine 17(1):157 (1987). Descriptors: animal welfare, policy.

"Are animal care and use committees really needed?" J.R. Geraci, and D.H. Percy Laboratory Animal Science 37(special issue):111-112 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, research institutions, animal experiments.

"Consensus recommendations on effective institutional animal care and use committees." Laboratory Animal Science 37(special issue):11-13 (January 1987). NAL call number: 410.9 P94 Descriptors: laboratory animals, animal welfare, workshop, research institutes, training, ethics, animal experiments.

"Effective animal care and use committees." Laboratory Animal Science 37(special issue):1-178 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, laboratory animals.

"Effective animal care and use committees - preface and acknowledgments." F.B. Orlans, R.C. Simmonds, and W.J. Dodds Laboratory Animal Science 37(special issue):9 (January 1987). NAL call number: 410.9 P94 Descriptors: Scientists Center for Animal Welfare, effective institutional practices, recommendations.

"Essential functions of animal care and use committees." H.J. Baker Laboratory Animal Science 37(special issue):30-34 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, conferences, organizations, animal experiments, projects.

"Gaining institutional support." J.G. Fox Laboratory Animal Science 37(special issue):115-117 (January 1987). NAL call number: 410.9 P94 Descriptors: laboratory animals, animal welfare, animal experiments, committees.

"Overview of papers on effective animal care and use committees." W.J. Dodds Laboratory Animal Science 37(special issue):14-16 (January 1987). NAL call number: 410.9 P94 Descriptors: laboratory animals, animal welfare, policy, animal experiments.

"Report of a panel discussion on how to run an effective Animal Care and Use Committee." K. Hiiemae, H. Rozmiarek, J.F. Williams, J.E. LeBeau, and M. Ross Laboratory Animal Science 37(special issue):39-44 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal experiments, policy, institutions.

Animal Rights, the Threat to Research. The New Research Environment Foundation for Biomedical Research, Washington, DC; 2 videocassettes (VHS) (44 min., 28 sec.) 1987. "In cooperation with John Hopkins University School of Medicine." CT: Tape 1. The animal rights movement: The threat to research. (14 min.) -- Tape 2. pt. 1. The animal care and use committee. -- pt. 2. Common procedures & techniques. -- pt. 3. Survival surgery. (30 min.). NAL call number: Videocassette - no. 194 Descriptors: animal experimentation, animal models in research, law and legislation, animal welfare.

023 "State Sunshine Laws." SCAW Newsletter 9(3):3 (1987). NAL call number: QL55 N48 Descriptors: animal rights groups, access.

"Animal care committees: Changing their long-standing role as research rubber stamps." J.A. Kelly PsyETA - Psychologists for the Ethical Treatment of Animals Bulletin Spring 1986, pp. 2-5. Descriptors: review, animal welfare,

experiments.

025 "Animals (Scientific Procedures) Act 1986: The Animal Procedures Committee." M. Balls Alternatives to Laboratory Animals - ATLA 14(1):6-13 (September 1986). NAL call number: Z7994 L3A5 Descriptors: animal research, advisory committees, legislation, law, animal welfare.

026 "Animal welfare in Canada: A contrasting view." H. Davis PsyETA - Psychologists for the Ethical Treatment of Animals Bulletin 8(2):9-10 (Spring 1986). Descriptors: committees, animal experiments, facilities, university research.

027 "Comment on ethical committees." J.D. Rankin Acta Physiologica Scandinavica 128(554):169-171 (1986). NAL call number: QP1 A2 Suppl Descriptors: animal welfare, ethics, inspection, cruelty.

028 "Conference report - Institutional Animal Care and Use Committees." D. Britt Alternatives to Laboratory Animals: ATLA 13(3):236-239 (1986). NAL call number: Z7994 L3A5 Descriptors: animal research, review boards, evaluations.

029 "Institutional Animal Care and Use Committees." Alternatives to Laboratory Animals: ATLA 14(2):96-99 (December 1986). NAL call number: Z7994 L3A5 Descriptors: laboratory animals, animal welfare, animal research, guidelines.

030 "Compulsory ethical examination of animal experiments. Experiences with the Swedish system." K.J. Obrink, and L. Wass In: Proceedings of the 8th ICLAS/CALAS Symposium Vancouver, 1983 Gustav Fischer Verlag, New York, NY; 1985, pp. 151-156. Descriptors: animal experiments, ethics, ethical committees, compulsory preexamination, Swedish legislation.

031 "Ethical committees and animal experimentation." S. Haywood, S.R.L. Clark, and D. Judson Veterinary Record 117(18):479 (1985). NAL call number: 41.8 V641 Descriptors: animal welfare, research.

032 "Ethical committees and animal experimentation." J. Remfry Veterinary Record 117(19):508 (1985). NAL call number: 41.8 V641 Descriptors: animal research, review, ethics.

033 "Ethical committees and animal experimentation." J.F.R. Sweet Veterinary Record 117(18):479 (1985). NAL call number: 41.8 V641 Descriptors: college, research, experimental animals.

034 "Microcomputer assisted management of an institutional animal care and use committee." P.C. Tillman Laboratory Animal Science 35(5):540-541 (1985). NAL call number: 410.9 P94 Descriptors: abstract, clerical aspect, record keeping, committee organization.

035 "Survey of Attitudes to Animal Care and Use Committees." F.B. Orlans Laboratory Animal Science 35(5):539-540 (1985). NAL call number: 410.9 P94 Descriptors: abstract, scientists, humane, standard, compliance animal welfare, mandatory, protocol review.

036 "The role of the ethical committee in biomedical research." S. Haywood Alternatives to Laboratory Animals: ATLA 11(4):226-228 (June 1984). NAL call number: Z7994 L3A5 Descriptors: animal experiments, medical research, ethics, regulations, animal welfare.

037 "The potential role of local ethical committees in the moderation of experiments on animals in Britain (includes Swedish view)." D.P. Britt International Journal for the Study of Animal Problems 4(4):290-294 (October-December 1983). NAL call number: HV4701.I49 Descriptors: ethical code, animal use, research.

038 "Recommended terms of reference for local animal care committees." Journal of Medical Primatology 9(1-2):145-148 (1980). NAL call number: QL737.P9J66 Descriptors: ethics, guidelines, Canadian Council on Animal Care.

039 "Proper use of animals in schools: An educational program." D.C. Secord, and H.C. Rowsell Canadian Veterinary Journal 15(2):42-47 (1974). NAL call number: 41.8 R3224 Descriptors: biology programs, animal care, guidelines, committees.

INSTITUTIONAL/INDUSTRIAL COMMITTEES

040 "An effective IACUC: A Johns Hopkins experience." J. Poling Animal Welfare Information Center Newsletter

1(4):1-2,6 (October-December 1990). NAL call number: aHV4701.A952 Descriptors: committees, bioethics, animal welfare.

041 "Animal Research From the Perspective of the Institutional Animal Care and Use Committee." C.J. Wust, and P.W. Concannon (eds.), Animal Research, Animal Rights, Animal Legislation, Proceedings of Two Forums on the Use of Animals in Research Held at the Annual Meetings of the Society for the Study of Reproduction, Columbia, Missouri, USA, August 7, 1989 and Knoxville, Tennessee, USA, July 16, 1990 V+45P, Society for the Study of Reproduction: Champaign, IL; 1990, pp. 38-42. NAL call number: QL876 S6 Descriptors: Animal Welfare Act, facilities, ethology, policy.

042 "Guiding Principles for the Care and Use of Animals in the Field of Physiological Sciences." Journal of the Physiological Society of Japan 52(1):27-29 (1990). Descriptors: human, animal welfare, research, ethics, animal research committee.

043 "Forming an IACUC at a small institution." J.W. Driscoll, and T.C. Rambo Animal Care and Use in Behavioral Research: Regulations, Issues, and Applications J.W. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 23-28. NAL call number: aHV4762 A3A64 Descriptors: committee, universities, regulatory requirements, committee responsibility.

044 "The development of guidelines for the care and use of agricultural animals used in agricultural research and teaching." W.W. Stricklin In: Animal Care and Use in Behavioral Research: Regulations, Issues, and Applications J.W. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 44- 51. NAL call number: aHV4762 A3A64 Descriptors: agricultural animal care and use program, institutional policies, committee.

045 "An effective industrial animal care and use committee." H.G. Hughes In: Science and Animals: Addressing Contemporary Issues H.N. Guttman, J.A. Mench, and R.C. Simmonds (eds.), Scientists Center for Animal Welfare, Bethesda, MD; 1989, pp. 49-50. NAL call number: HV4704 S33 1988 Descriptors: committee for animal research, ethics, protocols, drug development.

046 "An effective industrial animal care and use committee." R. Mueller, and M.E. Landi In: Science and Animals: Addressing Contemporary Issues H.N. Guttman, J.A. Mench, and R.C. Simmonds (eds.), Scientists Center for Animal Welfare, Bethesda, MD; 1989, pp. 123-124. NAL call number: HV4704 S33 1988 Descriptors: protocol, Good Laboratory Practices, training.

047 "Ghettoizing animal research: The impact of federal regulations on science and education in small colleges." J. Demarest Animal Care and Use in Behavioral Research: Regulations, Issues, and Applications J.W. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 30-36. Descriptors: survey, regulations, animal care and use committee, training, animal maintenance.

048 "Institutional animal care and use committees: Making them responsible and responsive." J.A. Mench In: Animal Care and Use in Behavioral Research: Regulations, Issues, and Applications J.W. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 15-22. NAL call number: aHV4762 A3A64 Descriptors: federal regulations, IACUC, training, peer review.

049 "Animal care committees in the pharmaceutical industry." J. Goodpasture Laboratory Animal Science 37(special issue):132-133 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, laboratory animals, pharmacy.

050 "Animal research review in an industrial facility." D.R. Knauff Laboratory Animal Science 37(special issue):129-131 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare regulations, animal experiments, committees.

051 "Institutional Animal Care and Use Committee at Columbia University's Health Sciences Division." R.B. Dell SCAW Newsletter 9(4):3-4 (Winter 1987). NAL call number: QL55 N48 Descriptors: animal welfare, laboratory animals.

052 "Institutional responsibilities." H.B. Herscowitz Laboratory Animal Science 37(special issue):118-119 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, laboratory animals, committees.

053 "Perspective of a small institution." D.H. McKelvie Laboratory Animal Science 37(special issue):125-126 (January

1987). NAL call number: 410.9 P94 Descriptors: laboratory animals, animal experiments, committees, guidelines.

054 "A primate research center perspective: Animal Care and Use Committees." F.A. King Laboratory Animal Science 37(special issue):134-136 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, professional staff committees, laboratory animals.

055 "Program and objectives of the Canadian Council on Animal Care." H.C. Rowsell Laboratory Animal Science 37(special issue):24-25 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, pain, prevention, legislation, protection, animal testing alternatives, societies, committees.

056 "Unique problems of animal care and use in small institutions." B. Gordon Laboratory Animal Science 37(special issue):127-128 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, research institutes, animal experiments, committees.

057 "University administration of animal care and use programs." A.A. Barber Laboratory Animal Science 37(special issue):93-96 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, administration, policy, animal experiments.

058 "University of Southern California model for the humane care and utilization of animals in research and teaching." R.C. Benedict Laboratory Animal Science 37(special issue):90-92 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal research, committees, ethics.

059 "The University of Southern California's committee in action." T.V. Berne, W.M. Blackmore, D. Marsh, E. Horowitz, M.J. Baker, J.D. Peck, J.W. Robb, and B. Berry Laboratory Animal Science 37(special issue):81-89 (January 1987). NAL call number: 410.9 P94 Descriptors: laboratory animals, animal experiments, ethic, universities.

060 "Report from the Committee on Animal Care and Experimentation (American Physiological Society)." H.R. Parker Physiologist 17(2):133-134 (May 1974). NAL call number: 447.8 P564 Descriptors: laboratory animals, research, cats, dogs, physiology.

ETHICS

061 "NIH Guidelines and Animal Welfare." L. Marlene-Russow In: Biomedical Ethics Reviews, 1990 Humana Press, Clifton, NJ; 1992. NAL call number: R724 B493 Descriptors: animal experimentation, laws, ethics.

062 "Institutional Animal Care and Use Committees and the Moderate Position." W. Stephenson Between the Species Winter 1991, pp. 6-8. NAL call number: HV4701 B4 Descriptors: animal rights, biomedical research, ethics, justification, value.

063 "Reply to Stephenson on Biomedical Research." S. Gendin Between the Species Winter 1991, pp. 9-11. NAL call number: HV4701 B4 Descriptors: animal rights, biomedical research, ethics, IACUC.

064 "Animals, Science, and Ethics." S. Donnelley, and K. Nolan (eds.), Hastings Center Report 20(3)Supp.1-32 (May-June 1990). NAL call number: R724 H27 Descriptors: animal experimentation, anthropomorphism, bioethics, research, IACUC.

065 "Approaches to increasing the ethical consistency of prior review of animal research." E.D. Prentice, D.A. Crouse, and R.W. Rings Investigative Radiology 25(3):271-4 (March 1990). Descriptors: animal testing alternatives, legislation, ethics.

066 "Care and use of animals. Probing four views of animal use." J.R. Boyce Journal of the American Veterinary Medical Association 196(9):1368-9 (May 1, 1990). NAL call number: 41.8 Am3 Descriptors: animal welfare, ethics, veterinary medicine.

067 "Ethical review and the animal care and use committee." A.N. Rowan Hastings Center Report 20(3):S19(6) (May-June 1990). NAL call number: R724 H27 Descriptors: Laboratory Animal Welfare Act of 1966, social aspects, Animal Welfare Act of 1970, ethics, animal experimentation, research institutes, standards.

068 "Ethical issues in the use of wild animals in behavioral and ecological studies." G.R. Michener In: Animal Care and Use in Behavioral Research: Regulations, Issues, and Applications J.W. Driscoll (ed.), United States Department of Agriculture/National Agricultural Library, Beltsville, MD; 1989, pp. 37-43. NAL call number: aHV4762 A3A64 Descriptors: field studies, animal care committees, maintaining wild species, guidelines.

069 "Speculative philosophy, the troubled middle, and ethics of animal experimentation." S. Donnelley Hastings Center Report 19(2):15(7) (March-April,1989). NAL call number: R724 H27 Descriptors: animal experimentation, animal welfare, Institutional Animal Care and Use Committees, decision making.

070 "The use of animals in medical education: A question of necessity versus desirability." J. Cheong Theoretical Medicine 10:53-57 (March 1989). Descriptors: ethics, animal rights, medicine.

071 "Standards for animal research: Looking at the middle." R. Dresser Journal of Medical Philosophy 13:123-143 (May 1988). Descriptors: ethics, animal experimentation, standard, balance, utilitarianism.

072 "Animal Welfare and Animal Rights." L.W. Sumner Journal of Medicine and Philosophy 13:159-175 (May 1988). Descriptors: ethics, animal experimentation.

073 "Doing ethics by committee: Problems and pitfalls." A.L. Caplan Laboratory Animal Science 37(special issue):45-47 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal experiments.

074 "Animal suffering: How it matters." A.H. Flemming Laboratory Animal Science 37(special issue):140-144 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, pain, animal experiments, committees.

075 "Case studies of ethical dilemmas." F.B. Orlans Laboratory Animal Science 37(special issue):59-64(January 1987). NAL call number: 410.9 P94 Descriptors: laboratory animals, animal experiments, animal welfare, committee.

076 Taking Sides: Clashing Views on Controversial Bioethical Issues C. Levine Guilford, Dushkin, 1987. Descriptors: ethics, bioethics, textbook, animal experiments.

077 "Mad bears and innocent hares: Remarks toward a theory of diminished responsibility." C. Blatz Between the Species 3:3-11 (Winter 1987). NAL call number: HV4701 B4 Descriptors: ethics, responsibility, animal experimentation, innocence.

078 "Animal rights re-evaluated." J. Simpson Free Inquiry 5:37-40 (Winter 1984-85). Descriptors: ethics, treatment, economics.

079 "Ethics, ethical committees and animal experimentation." D. Britt Nature 311(5986):503-506 (1984). NAL call number: 472 N21 Descriptors: public concern, research, animal welfare.

080 "Animal rights and animal experimentation." B.J. Cohen In: Rights and Responsibilities in Modern Medicine M.D. Basson (ed.), Liss Publishing, New York, NY; 1981, pp. 85-92. Descriptors: ethics, animal experimentation, alternatives.

081 "The voluntary control program of the Canadian Council on Animal Care." H.C. Rowsell Journal of Medical Primatology 9(1-2):5-8 (1980). NAL call number: QL737 P9J66 Descriptors: laboratory animals, ethics, research, committees.

082 "The Rational Use of Living Systems in Bio-Medical Research." Universities Federation for Animal Welfare Universities Federation for Animal Welfare 1972. NAL call number: QL55 R37 Descriptors: ethics, animal experimentation, utility, vaccine, transplantation, feeling, reason, consent.

INVESTIGATOR/PUBLIC ATTITUDES AND CONCERNS

083 "Access to animal care committees." G.L. Francione Rutgers Law Review 43n1:1-14 (Fall 1990). Descriptors: sunshine laws, animal welfare, law and legislation, animal experimentation, management.

084 "The importance of access to animal care committees: A primer for activists." G.L. Francione The Animal's Agenda 10(7):44-47 (September 1990). NAL call number: HV4701 A45 Descriptors: laboratory animals, animal welfare, IACUC,

access, information.

085 "Public responsibility in medicine and research conference on administration, education and the animal care committee." R. Carey Journal of Medical Primatology 19(1):75-6 (1990). NAL call number: QL737 P9J66 Descriptors: animal welfare, legislation and jurisprudence, laboratory animals, research.

086 "Communicating animal welfare issues to the investigator: An institutional newsletter." P.A. Doris SCAW Newsletter 10(1):6,15 (Spring 1988). NAL call number: QL55 N48 Descriptors: animal experiments, inspection, committees, programs, policy, information needs.

087 "Animal Care and Use Committees: Focus on the investigator." R.A. Murphy SCAW Newsletter 10(1):9-10 (Spring 1988). NAL call number: QL55 N48 Descriptors: animal welfare, animal experiments, inspection.

088 "Analyzing conflicts between the institution, the scientist, the animal care committee, and the concerned public." M. Tugwell Laboratory Animal Science 37(special issue):145-147 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, research institutes, public opinion.

089 "Animal care and use committees and the public concern." H.C. Rowsell Laboratory Animal Science 37(special issue):122-124 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal research, public relations.

090 "Attitudes to animal usage and the review system in the US." S. Haywood Alternatives to Laboratory Animals: ATLA 14(4):369-374 (June 1987). NAL call number: Z7994 L3A5 Descriptors: animal experiments, education, research.

"IACUC, who needs it? The investigator's viewpoint." R.J. Traystman Laboratory Animal Science 37(special issue):108-110 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal experiments, laboratory animals, committees.

092 "Investigator concerns: Animal care and use committees." J.F. Williams Laboratory Animal Science 37(special issue):113-114 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal experiments, committee.

093 "Investigators' interrelationship with laboratory animals." L.K. Bustad Laboratory Animal Science 37(special issue):167-170 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, animal housing, animal nutrition, animal experiments, animal health, handling.

094 "Public disclosure or sunshine laws hinder the efficiency of the animal care and use committees." B.R. Collins Laboratory Animal Science 37(4):513 (1987). NAL call number: 410.9 P94 Descriptors: open meetings, confidentiality, Florida.

095 "Scientists' attitudes toward animal care and use committees." F.B. Orlans Laboratory Animal Science 37(special issue):162-166 (January 1987). NAL call number: 410.9 P94 Descriptors: animal welfare, training, surveys.

096 "Survey of attitudes to animal care and use committees." F.B. Orlans Laboratory Animal Science 35(5):539-540 (1985). NAL call number: 410.9 P94 Descriptors: abstract, scientist, humane standards, compliance, animal welfare, mandatory protocol review.

097 "The Modern Politics of Laboratory Animal Use." T. Moss Science, Technology and Human Values 9:51-56 (Spring 1984). Descriptors: ethics, animal rights, animal experimentation, public opinion.

098 "Animal rights law: Barking up a new tree. (Attorneys for Animal Rights)." V. Quade American Bar Association Journal 68n6:663 (June 1982). Descriptors: animal welfare, litigation, Lawyers Committee for the Enforcement of Animal Protection, management, research.

MEMBERSHIP AND TRAINING

099 "A comprehensive health science center educational program for animal care and use." G.L. White, M.A. Perry, and S.D. Kosanke Lab Animal 20(7):47-49 (July-August 1991). NAL call number: QL55 A1L33 Descriptors: University of

Oklahoma, course focus, workshops, laboratories.

100 Education and Training in the Care and Use of Laboratory Animals: A Guide for Developing Institutional Programs Institute of Laboratory Animal Resources, Committee on Educational Programs in Laboratory Animal Science, National Academy Press, Washington, DC; 1991, 139 pp. NAL call number: SF604.E3 Descriptors: laboratory animals, animal welfare, training, bibliography.

101 "Evaluation of the effectiveness of an animal care and use training program." K.I. Adsit, S.P. Tomasovic, A.J. Mastromarino, and K.N. Gray Lab Animal 19(4):50,52-54 (May-June 1990). NAL call number: QL55 A1L33 Descriptors: University of Texas, training modules, program assessment.

102 Guia Para el Cuidado y uso de Animales de Laboratorio. Revisada en 1985. Translation of: Guide for the Care and Use of Laboratory Animals NIH publication no. 90-23S. Institute of Laboratory Animal Resources (U.S.). Committee on Care and Use of Laboratory Animals. US Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD; 1990, 83 pp. NAL call number: SF406.G8 1990 Descripciones: animales del laboratorio, bienestar de animales, entrenimiento, bibliografia.

103 "Recognition and alleviation of pain and distress." D.A. Kastello Symposium: Animal Welfare Compliance for Study Directors American College of Toxicology, Orlando, FL, 1990. NAL call number: Videocassette no. 968 Descriptors: study director, veterinarian, ACUC, pain, study endpoints.

104 "The American veterinarians' role and education in laboratory animal science." D.M. Stark Animal Technology: Journal of the Institute of Animal Technicians 40(3):199-201 (December 1989). NAL call number: QL55 I5 Descriptors: laboratory animals, training, animal husbandry, ACUC.

105 "Animal care and training for temporary research employees." S.P. Tomasovic, K.N. Gray, A.J. Mastromarino, and K.I. Adsit Lab Animal 18(4)27-28,30,32(May/June 1989). NAL call number: QL55 A1L33 Descriptors: training programs, animal care and use, protocol, IACUC.

106 "Committee knowledge of protocol adherence." L.W. Gerrity Science and Animals: Addressing Contemporary Issues H.N. Guttman, J.A. Mench, and R.C. Simmonds (eds.), Scientists Center for Animal Welfare, Bethesda, MD; 1989, pp. 137-138. NAL call number: HV4704 S33 1988 Descriptors: community representative, reduction, replacement and refinement, community member concerns.

107 "Community responsibility and the role of community members in public education." C.E. Farr Science and Animals: Addressing Contemporary Issues H.N. Guttman, J.A. Mench, and R.C. Simmonds (eds.), Scientists Center for Animal Welfare, Bethesda, MD; 1989, pp. 139-141. NAL call number: HV4704 S33 1988 Descriptors: community member functions, care and use of animals, confidentiality, public relations.

108 "Humane principles and procedures in animal research. Animal research training series." P.A. Doris Texas Tech University Health Science Center c1989, 1 videocassette (30 min.) NAL call number: Videocassette (2 copies) - nos. 804 and 805 Descriptors: new legal requirements, IACUC, husbandry.

109 "Liability exposure of community members." J.L. Dyer In: Science and Animals: Addressing Contemporary Issues H.N. Guttman, J.A. Mench, and R.C. Simmonds (eds.), Scientists Center for Animal Welfare, Bethesda, MD; 1989, pp. 133-136. NAL call number: HV4704 S33 1988 Descriptors: violations, statutory duties of the committee, private action, open meetings, Freedom of Information Act.

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