# Regulations and Compliance Directives Affecting the Clark Science Center

**October 2015**

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| 1    | ICHC   | Laboratory Standard (S)                  | Federal    | Occupational Health and Safety Administration (OSHA) | All ‘wet lab’ including Chem, Bio, some Physics, PSY, and EGR                              | Training, procedures for work with hazardous materials and procedures   | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College ICHC (Institutional Chemical Hygiene Committee) |
| 2    | IBC    | Bloodborne Pathogen Standard (S)         | Federal    | OSHA                                                 | Any with human or non-human primate unfixed research materials (mostly Bio, some Chem and EGR) | Training, procedures, collection of sharps                              | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College IBC (Institutional Biosafety Committee) |
| 3    | ICHC   | NFPA 45 (D)                              | Local      | Northampton Fire Dept.                               | Flammable and hazardous chemical storage                                                  | Flammable cabinets, limits on amounts stored                             | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College ICHC (Institutional Chemical Hygiene Committee) |
| 4    | ICHC   | Compressed Gas Standard (S)              | Federal    | OSHA                                                 | Users of compressed gas                                                                  | Training, storage, use.                                                | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College ICHC (Institutional -- Chemical Hygiene Committee) |
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| 5.   | ICHC | Resource Conservation and Recovery Act (RCRA) (S) | Federal | Massachusetts Dept. of Environmental Protection | Any which produces a hazardous waste (most ‘wet lab’) | Hazardous waste training, identification, storage and disposal | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College ICHC (Institutional Chemical Hygiene Committee) |
| 6.   | ICHC | Clean Water Act (S) | Federal | Northampton DPW-Water Dept. | Users of hazardous chemicals | No discharge of hazardous materials to sewers | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College ICHC (Institutional Chemical Hygiene Committee) |
| 7.   | RSC  | Atomic Energy Act of 1978 (S) | Federal | Massachusetts Dept of Public Health/Radiation Control Program | Researchers employing radioactive material; also affects possession of RAM in other areas (smoke detectors) | Training, protocol and users approvals, documentation, area surveys, licensing, waste storage and disposal | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College RSC (Radiation Safety Committee) |
| 8.   | RSC  | Rules and Regulations Relative to the Use of Laser Devices or Equipment to Control the Hazards of Laser Rays and Beams (S) | State | Massachusetts Dept of Public Health/Radiation Control Program | Researchers using lasers | Training, protocol approvals, user approvals, registration of Class IIIb and Class IV lasers | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College RSC (Radiation Safety Committee) |
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| 9.   | RSC  | Radiation Safety Requirements for Analytical Xray Equipment | State  | Massachusetts Dept of Public Health/Radiation Control Program | Researchers using X-ray generators, including XRF devices, diffractometers | Training, protocol and users approvals, documentation, licensing of equipment | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College RSC (Radiation Safety Committee) |
| 10.  | IBC  | Storage and Disposal of Infectious or Physically Dangerous Medical and Biomedical Waste (S) | State  | Massachusetts Dept of Public Health | Researchers producing biomedical waste or sharps | Approved disposal methods for sharps, required verification of autoclaves, approved storage and disposal practices for other biomedical waste | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College IBC (Institutional Biosafety Committee) |
| 11.  | CSC  | Transportation of Hazardous Materials Regulations (S) | Federal | Dept. of Transportation/Federal Aviation Administration | Stockroom employees and any faculty or staff member wishing to ship hazardous substances for research purposes | Training, licensing, biannual certification of CSC’s two designated shippers | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College IBC (Institutional Biosafety Committee) |
| 12.  | IBC  | NIH Guidelines for Recombinant DNA Research (S) | Federal | National Institutes of Health | Any Smith researcher who performs nonexempt recombinant DNA/RNA experiments regardless of funding source (as long as any NIH monies are received by Smith) | Training, protocol review and approval by the Institutional Biosafety Committee | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College IBC (Institutional Biosafety Committee) |
| 13.  | CSC/ICHC/IBC | General Duty Clause (S) | Federal | OSHA | Those researchers who are performing hazardous operations not otherwise or specifically covered | Ex: New Whately tower equipment calibration procedures; work with nonrecombinant BSL-2 agents | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• Smith College ICHC (Institutional Chemical Hygiene Committee),  
• Smith College IBC (Institutional Biosafety Committee),  
• Other committees, as necessary |
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| 14   | IBC  | Possession, Use and Transfer of Select Agents and Toxins (S) | Federal | Dept of Health and Human Services/Centers for Disease Control | Storage or use of listed agents | Ordering, storage, or use of listed agents | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.,  
• Smith IBC (as necessary) |
| 15   | CSC  | Distribution and Use of Tax Free Alcohol (27CFR 22) (S) | Federal | Bureau of Alcohol, Tobacco, Firearms and Explosives | Users of 95% and 100% ethanol | Purchase, use and inventory of 95% and 100% ethanol for research purposes | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• All relevant committees (incl. Smith ICHC, IBC, RSC) |
| 16   | CSC /ICHC /IBC /RSC | 1910 Subpart I: Personal Protective Equipment (PPE) (S) | Federal | OSHA | Laboratory work with hazardous chemicals, biologicals, or processes which could present hazards to the eyes/skin/lungs | Use of personal protective equipment (gloves, safety glasses, goggles) when appropriate | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• All relevant committees (incl. Smith ICHC, IBC, RSC) |
| 17   | CSC  | 1910 Subpart O: Machinery and Machine Guarding (S) | Federal | OSHA | Users of the Center for Design and Fabrication | Machine tool design and use/modification to prevent injury | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir. |
| 18   | CSC  | 1910 Subpart P: Hand and Portable Powered Tools and Other Hand-Held Equipment (S) | Federal | OSHA | Users of the Center for Design and Fabrication | Design and use (modification) of hand and portable powered tools to prevent injury | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir. |
| 19   | CSC  | 1910 Subpart Q: Welding, Cutting, and Brazing (S) | Federal | OSHA | Users of the Center for Design and Fabrication | Welding procedures | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir. |
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| 20 | CSC  | Export Administration Act of 1979; Arms Export Control Act | Federal | U.S. Dept. of Commerce; US. Dept. of State | All international shipments of goods (research samples included); work with certain specified biologicals, chemicals, or electronic or computer technology which involves some foreign nationals | Some collaborations with foreign nationals from listed countries; screening and reporting in effect as needed for shipments | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir. |
| 21 | IACUC| The Animal Welfare Act United States Department of Agriculture (S)  
USDA Policy Manual * | Federal | Regulatory Enforcement and Animal Care Animal and Plant Health Inspection Service | Research or teaching involving covered species | Unannounced inspections, annual reporting, licensing, protocol review, training, record maintenance, semiannual program reviews | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 22 | IACUC| The Public Health Service Act (S)  
The Public Health Service Policy on Humane Care and Use of Laboratory Animals (R) | Federal | Office of Laboratory Animal Welfare (OLAW) of the National Institutes of Health | Research or teaching involving all vertebrate animals or animal tissue | Annual reporting, negotiation of PHS Assurance, self reporting programmatic updates, protocol review, training, record maintenance, OHP maintenance, semiannual program review and reporting | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 23 | IACUC| The Guide for the Care and Use of Laboratory Animals (R) | Federal | National Academy of Science and the Association for the Assessment and Accreditation of Laboratory Animal Care | Research or teaching involving all vertebrate animals or animal tissue | Annual reporting, negotiation of PHS Assurance, self reporting programmatic updates, protocol review, training, record maintenance, OHP maintenance, semiannual program reviews | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
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| 24.  | IACUC| Good Laboratory Practice Regulations (R) | Federal | Office of Regulatory Affairs Food and Drug Administration | Any research associated with the Food and Drug Administration | Record maintenance, Standards requirements | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 25.  | IACUC| Report of the AVMA Panel on Euthanasia (R) | Federal | American Veterinary Medical Association | Research or teaching involving animal euthanasia | Training, protocol approvals, user approvals, records maintenance | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 26.  | IACUC| Permitting for Scientific Collection and Endangered Species Laws (R)  
Permitting for Scientific Collection (R) | Federal | US Fish and Wildlife Service  
Division of Fisheries and Wildlife, Commonwealth of MA | Collection or use of covered species | Licensing, records maintenance | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 27.  | CSC | Department of Agriculture Regulations (transportation) (R) | Federal | Animal and plant Health Inspection Service | All shipping and receiving of research animals | Records submissions and maintenance, health assurances | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian |
| 28.  | CSC | Controlled Substance Act (S) | Federal | Drug Enforcement Administration United States Department of Justice | Use of controlled substances | Records maintenance, licensing, regulated inventories, legal witness disposal and waste handling | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir.  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian |
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| 29.  | CSC  | MA Controlled Substances MA General Laws Chapter 94C (S) | State  | Department of Public Health Division of Food and Drugs | Use of controlled substances | Records maintenance, licensing, regulated inventories, legal witness disposal and waste handling | • M. Lamb, Adm. Dir., CSC  
• CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compl. Serv.-Dir.  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian |
| 30.  | IACUC| National Institute of Occupational Safety and Health Guidelines for Preventing Asthma in Animal Handlers (R) | Federal | Department of Health and Human Services | Research or teaching involving rodents | | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 31.  | IACUC| Occupational Health and Safety in the Care and Use of Research Animals (R) | Federal | Public Health Service | Research or teaching involving all vertebrate animals or unfixed animal tissue | OHP program maintenance, risk assessments, user approvals, training | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 32.  | IACUC| Guide for the Care and Use of Mammals in Neuroscience (R) | Federal | National Research Council | Research or teaching involving all vertebrate animals | Training, protocol approvals, record maintenance | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC (Institutional Animal Care and Use Committee) |
| 33.  | IACUC| Guidelines for the use of Fishes in Research (R) | Federal | American Fisheries Society | Research and teaching involving fish | Training, protocol approvals, record maintenance | • M. Lamb, Adm. Dir., CSC  
• CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
• Smith College IACUC |
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|------|--------|------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 34.  | IACUC  | Guidelines for Use of Live Amphibians and Reptiles in Field Research (R)                             | Federal  | American Society of Ichthyologists and Herpetologists                         | Research and teaching involving amphibians and reptiles                                   | Training, protocol approvals, record maintenance                                         | • M. Lamb, Adm. Dir., CSC  
  • CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
  • Smith College IACUC (Institutional Animal Care and Use Committee) |
| 35.  | IACUC  | Guidelines to the Use of Birds in Research (R)                                                      | Federal  | The Ornithological Council                                                   | Research and teaching involving birds                                                   | Training, protocol approvals, record maintenance                                         | • M. Lamb, Adm. Dir., CSC  
  • CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
  • Smith College IACUC (Institutional Animal Care and Use Committee) |
| 36.  | IACUC  | Guidelines for the Capture, Handling, and Care of Mammals (R)                                       | Federal  | The American Society of Mammalogists                                        | Research and teaching involving mammals                                                 | Training, protocol approvals, record maintenance                                         | • M. Lamb, Adm. Dir., CSC  
  • CSC Animal Care and Use Program, Animal Care Facility Manager; Consulting Veterinarian  
  • Smith College IACUC (Institutional Animal Care and Use Committee) |
| 37.  | CSC    | Endangered Species Act (S)                                                                          | Federal  | US Fish and Wildlife Service                                                  | Research or teaching involving listed species, including collections                   | Appropriate documentation to prove species was in possession before 1973                | • M. Lamb, Adm. Dir., CSC  
  • CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir. |
| 38.  | CSC    | Migratory Bird Act of 1917 (S)                                                                       | Federal  | US Fish and Wildlife Service                                                  | Research or teaching involving listed species, including collections                   | Appropriate documentation required for possession, collection maintenance, or transferal | • M. Lamb, Adm. Dir., CSC  
  • CSC Office of Environmental Health & Safety, M. Rakas, Lab., Safety & Compli. Serv.-Dir. |