

LABORATORIES

	<u>Completion Status</u>
<p><u>DARTMOUTH COLLEGE VISUAL ARTS CENTER</u> <i>Hanover, NH</i> \$52M, 100,000 SF, new Visual Arts Center which features production studios for Film and TV; teaching studios for Sculpture, Printmaking, Drawing, Painting, Photography, Senior Studios, and Architecture; classrooms, exhibition space, screening rooms, a 225 seat auditorium/theater for film projection, and faculty and administrative offices. Mechanical systems include: 100% outside air systems with combined exhaust and enthalpy heat recovery, specialized exhaust systems, dilution ventilation, and direct ventilation with chilled beam systems. Project will be seeking LEED Silver Certification.</p>	<p>D 2011</p>
<p><u>CABOT CORPORATION</u> <i>Billerica, MA</i> A multi-phased project to delete individual fume hood exhaust fan systems through inclusion of a new 50,000 cfm combined exhaust air system and new make-up air system. Included were subsequent revisions in individual labs.</p>	<p>2008 2007</p>
<p><u>MASSACHUSETTS EYE AND EAR INFIRMARY</u> <i>Boston, MA</i> Renovations of 5,000 SF to create Hair Cell and Vestibular Physiology Laboratories.</p>	<p>2005</p>
<p><u>SIMONS ROCK COLLEGE, THEATER, PERFORMING ARTS & VISUAL ARTS CENTER</u> <i>Great Barrington MA</i> \$16.5M, 53,000 GSF new private high school/college facility with 350 seat theater, 100 seat Black Box Theater, Dance Hall, Classrooms, Visual Arts - Photography, Ceramics, Wood and Metal Working. Visual Arts combined exhaust system with heat recovery serving major photography and print making studios. Separate shop building with ceramics, welding, and sculptures.</p>	<p>2004</p>
<p><u>UNIVERSITY OF MASSACHUSETTS DARTMOUTH VISUAL ARTS CENTER AND BRISTOL COMMUNITY COLLEGE CLASSROOMS</u> <i>New Bedford, MA</i> \$14M complete renovations to 110,000 SF five (5) story building to create UMass Dartmouth visual arts center with classroom and studio space for Ceramics, Metals, Fibers, Sculpture, Printing and Painting as well as classroom space for Bristol Community College. Extensive mechanical systems are included for dust collection, specialized exhaust, welding, woodworking, paint spraying, kilns and other processes. Variable air and constant volume combined fume hood and general exhaust systems were included.</p>	<p>2001</p>
<p><u>UNIVERSITY OF MASSACHUSETTS ANIMAL CARE FACILITY</u> <i>Amherst, MA</i> \$4.5M - 13,500 SF addition and 14,000 SF renovation to animal care facilities and laboratories. Multi-phased project including one new building and two existing buildings.</p>	<p>2000</p>
<p><u>BETH ISRAEL HOSPITAL RESEARCH NORTH</u> <i>Boston, MA</i> \$17M adaptive reuse of 112,000 SF office - warehouse into research laboratory and animal holding facility. Complete new mechanical and electrical systems provided.</p>	<p>1994</p>
<p><u>CASE WESTERN RESERVE UNIVERSITY</u> <i>Cleveland, OH</i> \$15M Polymer Research Facility.</p>	<p>1994</p>

D – Design in Progress
C – Construction in Progress

S – Study
Date – Occupancy Date

DH – Design on Hold
CH – Construction on Hold

LABORATORIES (Continued)

BRIGHAM AND WOMEN'S HOSPITAL

Boston, MA
 Numerous laboratory renovation projects.

Completion Status

**1986
through
1993**

MILLIPORE CORPORATION

Marlborough, MA
 330,000 SF Phase I - 678,000 S. total through Phase 3 Corporate office building, laboratories and manufacturing. Project cancelled in 1991 after completion of Design Development.

**PROJECT
CANCELLED**

LONGWOOD MEDICAL RESEARCH CENTER

Boston, MA
 \$25M biomedical/animal research facility.

1991

WOODS HOLE OCEANOGRAPHIC McLEAN LABORATORY

Woods Hole, MA
 \$2.5M facility with AMS and Ion Probe apparatus.

1990

WOODS HOLE OCEANOGRAPHIC FYE LAB

Woods Hole, MA
 \$5M organic chemistry lab. Phases 1 and 2.

**1985 &
1989**

BRIGHAM AND WOMEN'S HOSPITAL LYING - IN LABORATORY RENOVATIONS

Boston, MA
 \$4M laboratory facility.

1989

HARVARD MEDICAL SCHOOL MONOCLONAL SUITE

Boston, MA
 \$3M research laboratory.

1988

HARVARD UNIVERSITY GABRIELSE LABORATORY

Cambridge, MA
 \$2.5M magnet research laboratory.

1988

BRIGHAM AND WOMEN'S HOSPITAL ACADEMIC I LABORATORY / CONFERENCE CENTER

Boston, MA
 \$26M facility. Planning phase completed.

DH

BROWN UNIVERSITY BIO-MEDICAL / ANIMAL RESEARCH LABORATORY

Providence, RI
 \$11M bio-medical/animal research facility.

1990

WOODS HOLE OCEANOGRAPHIC INSTITUTE REDFIELD LAB

Woods Hole, MA
 \$2M renovation.

1986

WOODS HOLE MARINE BIOLOGICAL LAB MARINE RESOURCE CENTER

Woods Hole, MA
 Feasibility Study.

1983

D – Design in Progress
C – Construction in Progress

S – Study
Date – Occupancy Date

DH – Design on Hold
CH – Construction on Hold

LABORATORIES (Continued)

Completion Status

JEAN MAYER UNITED STATES DEPARTMENT OF AGRICULTURE HUMAN NUTRITION RESEARCH CENTER ON THE STUDY OF AGING AT TUFTS UNIVERSITY

1983

Boston, MA

\$35M, 16 level multi use facility with biochemical laboratories, major animal housing facility, human volunteer residence rooms, and conference center.

MARINE BIOLOGICAL LABORATORY

1983

Woods Hole, MA

\$1M mariculture laboratory. Design carried through schematics and project placed on hold.

Refer also to COLLEGE AND UNIVERSITIES

D – Design in Progress
C – Construction in Progress

S – Study
Date – Occupancy Date

DH – Design on Hold
CH – Construction on Hold