

## Subject Index

### A

ACNA Organic Chemical Plant,  
Italy, 181  
Arching, 309  
Attapulgit, 69

### B

Backhoe, 225  
Baltimore, MD, Harborplace,  
foundation wall, 151  
Baltimore, MD, underground transit  
system, 403  
Barrettes, 207  
Beam, driven, method, 324  
Bentonite, 3, 26, 69, 78, 86, 194  
Biopolymers, 69, 333  
Boston, MA, 194, 207, 347, 361  
Bracing system, cross-lot, 347  
Building protection, during  
construction, 103, 117,  
128, 140, 151, 164, 194, 361  
construction using slurry walls,  
194, 403

### C

Calcium bentonite, 172  
Cement, 172  
Cement-bentonite, 42, 140, 225  
Charles Center Station,  
Baltimore, MD, 403  
Church of the Epiphany,  
Washington, DC, 164  
Clamshell, 3, 271  
Clay, 69, 103, 225, 251  
Cofferdam, 391  
Collector wells, 333  
Colloids, 86  
Composites, 78, 103, 181  
Concrete, 26, 151, 207, 235, 309,  
361  
Conductivity, 172  
Construction, thin slurry walls, 324  
Contaminants, 69, 78, 103, 172,  
181, 333

Copper mine, cutoff walls, 271  
Cutoff walls, 3, 42, 69, 140, 181  
Island Copper Mine, 271  
Mud Mountain Dam, 309  
plastic concrete, 271  
Sacramento River, 225  
soil-bentonite, 289  
Wister Dam, 251  
CWS system, 16

### D

Dams  
cutoff walls for, 289, 309  
slurry walls for, 235, 251  
Dewatering, 391  
Diaphragm walls, 128  
concrete, 151, 361  
internally braced, 347  
joints, 16, 377  
pump station, 391  
specifications for, 42  
trenching method, 86  
Wells Dam, 235  
Drainage, 181  
Drains, french, 333  
Driven beam method, 324

### E

Earth pressures, 403  
lateral, 151, 347  
Embankments, 225, 289  
dam, 235, 251  
Erosion, 140, 235  
Excavation, 26, 86, 207, 271, 377,  
391  
support, 117, 164, 347, 361,  
403

### F

Filter, sand, 251  
Filtrate, 86  
Finite element analyses, 361  
Fluids, supporting, 324  
Fly ash, 172

## 424 SLURRY WALLS: DESIGN, CONSTRUCTION, AND QC

Foundations, 117, 151, 347  
  selecting, 207  
  shaft, underreamed drilled,  
    194

French drain, 333

### G

Garage, underground parking,  
  117, 151, 361

Geomembrane, 78

Geotextile selection, 103

Glacial till, 271

Grain size distribution, 103

Ground anchors, 117

Grout columns, 403

Guar gum, 333

### H

Hammer, vibratory, 324

Hydraulic conductivity, 69, 172,  
  225

Hydraulic fracturing, 251, 289, 309

Hydroelectric plant, cutoff wall  
  for, 140

Hydrofracturing, 251, 289, 309

Hydrofraise, 309

Hydromill, 3

### I

Inclinometers, 117, 164, 347, 361

Internal bracing, 347

Ion diffusion, barrier, 69

### J

Joints, diaphragm wall, 16, 377

### L

Lateral displacements, 347

Lateral earth pressures, 151

Leachate collection, 86

Liquid slurry materials, 324

Load bearing elements, 207

### M

Manasquan dam and dike, NJ, 289

Masonry building, diaphragm  
  wall near, 128

Mine, open pit copper, cutoff  
  wall, 271

Modulus of elasticity, 140

Monitoring program, 403

Mud Mountain Dam, 309

### N

New York, Richmond Avenue  
  Pump Station, 391

### P

Parking, underground, slurry  
  walls for, 117, 151, 361

Percussion, 3

Permeability, 42, 69, 78, 140, 181

Permeameter, flexible wall, 172

Piezometers, 117, 235

Pit slope, 271

Pittsburgh, PA, Soldiers' and  
  Sailors' Building, 117

Plastic concrete, 42, 251, 271

Polymers, 86

  biopolymers, 69, 333

Pore water, 103

Porosity, geotextile, 103

Post Office Square garage,  
  Boston, MA, 361

Poteau River, OK, 251

Pump station, 391

### Q

Quality control, 194, 225

  construction, 26  
  diaphragm wall joints, 377

### R

Raffles Hotel, Singapore, 128

### S

Sacramento River, cutoff wall  
  for, 225

Sands, water-bearing, 391

Seepage, 140, 151, 225, 271, 289  
  dam, 235, 309

Settlement, building, during  
 construction, 103, 128,  
 151, 347  
 Shafts, drilled, 194  
 Singapore, Raffles Hotel, 128  
 Sinkhole, 235  
 Slag, 172  
 Sodium-bentonite, 172  
 Soil-bentonite, 42, 289  
 Soil volume change, 103  
 Soldiers' and Sailors' Memorial  
 Building, Pittsburgh, PA, 117  
 Specifications (see also Standards)  
 slurry wall, 26, 42  
 Stability, slope, 271  
 Standards, 42  
 lack of, 26  
 Strain gages, 347  
 Structural walls, 3, 26, 42  
 Supporting liquid slurries, 324

## T

Tiebacks, 151  
 Transit station, slurry walls for,  
 403  
 Trencher, 225  
 Trenches, 3, 69, 86, 151  
 collection, 333

## U

Underground buildings  
 parking garages, 117, 151, 361  
 transit station, 403  
 Up/down method, 207

## V

Vibrated beam, 225  
 Vibrating hammer, 324

## W

Wall movements, 164  
 Washington, DC, Church of the  
 Epiphany, 164  
 Water stop blades, 16  
 Watertightness, 377  
 Wells Dam, diaphragm walls, 235  
 White River, WA, 309  
 Wister Dam, 251