Subject Index

A

ACNA Organic Chemical Plant, Italy, 181
Arching, 309
Attapulgite, 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

D

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

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
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