

# Geotechnical Testing Journal

## Index to Volume 8

### 1985

Number	Month of Issue	Pages
1	March	1-48
2	June	49-100
3	September	101-150
4	December	151-214

#### A

- Adhesion:** Evaluation of adhesion in chemically grouted geomaterials (Krizek and Vipulanandan), Dec., 184
- Almeida, M. S. S. and Parry, R. H. G.:** Small cone penetrometer tests and piezocone tests in laboratory consolidation clays, March, 14
- Arthur, J. R. F.:** *see* Wong, R. K. S. and Arthur, J. R. F.

#### B

- Bearing capacities:** An underwater instrument for determining bearing capacity of shallow marine sediments (Circé), June, 96
- Budhu, M.:** The effect of clay content on liquid limit from a fall cone and the British cup device, June, 91

#### C

- Carbonates:** An underwater instrument for determining bearing capacity of shallow marine sediments (Circé), June, 96
- Carroll, R. G., Jr.:** *see* Suits, L. D., Carroll, R. G., Jr., and Christopher, B. R.
- Chamberlain, E.:** *see* Cole, D. M., Durrell, G., and Chamberlain, E.
- Chemical grouts:** Evaluation of adhesion in chemically grouted geomaterials (Krizek and Vipulanandan), Dec., 184
- Christopher, B. R.:** *see* Suits, L. D., Carroll, R. G., Jr., and Christopher, B. R.
- Chung, R. M. and Yokel, F. Y.:** Prediction of pore-water pressure buildup during undrained resonant column testing of virgin sand specimens, March, 41
- Circé, R. C.:** An underwater instrument for determining bearing capacity of shallow marine sediments, June, 96
- Clays**  
Discussion of "The Theory of One-Dimensional Consolidation of Saturated Clays: III. Existing Testing Procedures and Analyses" by D. Znidarcic, P. Croce, V. Pane, H.-Y. Ko, H. W. Olsen, and R. L. Schiffman (Parkin), Sept., 143

- The effect of clay content on liquid limit from a fall cone and the British cup device (Budhu), June, 91
- Improved rectangular hyperbola method for the determination of coefficient of consolidation (Sridharan and Prakash), March, 37
- Liquid limit of soil mixtures (Sivapullaiah and Sridharan), Sept., 111
- Small cone penetrometer tests and piezocone tests in laboratory consolidated clays (Almeida and Parry), March, 14
- Clough, G. W.:** *see* Rad, N. S. and Clough, G. W.
- Cole, D. M.:** Repeated load triaxial testing of frozen and thawed soils, Dec., 166
- Computers:** Electro-servo control system for thermomechanical properties testing (Myer), Dec., 171
- Concrete:** A direct tensile loading apparatus combined with a cubical test cell for testing rocks and concrete (Meier, Ko, and Sture), June, 71

- Cone penetrometer:** Small cone penetrometer tests and piezocone tests in laboratory consolidated clays (Almeida and Parry), March, 14
- Consolidation coefficient:** Improved rectangular hyperbola method for the determination of coefficient of consolidation (Sridharan and Prakash), March, 37
- Consolidation rate:** Discussion of "The Theory of One-Dimensional Consolidation of Saturated Clays: III. Existing Testing Procedures and Analyses" by D. Znidarcic, P. Croce, V. Pane, H.-Y. Ko, H. W. Olsen, and R. L. Schiffman (Parkin), Sept., 143
- Cornet, J.-M.:** *see* Hryciw, R. D., Cornet, J.-M., and Dowding, C. H.
- Costa Filho, L. de M.:** Measurement of axial strains in triaxial tests on London clay, March, 3
- Cyru, T.:** A low-cost ring dynamometer for monitoring the performance of roof bolts, March, 30

#### D

- Deformation**  
A low-cost ring dynamometer for monitoring the performance of roof bolts (Cyru), March, 30
- Determinations and uses of strain distributions in sand samples (Wong and Arthur), Sept., 101
- Deformation modulus:** Measurement of axial strains in triaxial tests on London clay (Costa Filho), March, 3

- Density tests:** Sand density measurements for laboratory studies (Trautmann, Kulhawy, and O'Rourke), Dec., 159
- Dial gages:** A low-cost ring dynamometer for monitoring the performance of roof bolts (Cyru), March, 30
- Direct shear tests:** A direct shear machine for testing rock joints (Franklin), March, 25
- Dowding, C. H.:** *see* Hryciw, R. D., Cornet, J.-M., and Dowding, C. H.
- Drained shear tests:** Determinations and uses of strain distributions in sand samples (Wong and Arthur), Sept., 101
- Durrell, G.:** *see* Cole, D. M., Durrell, G., and Chamberlain, E.
- Dynamics:** Resonant-column apparatus for coarse-grained materials (Heiniger and Studer), Sept., 132
- Dynamometers:** A low-cost ring dynamometer for monitoring the performance of roof bolts (Cyru), March, 30

#### E

- Earthquakes:** Resonant-column apparatus for coarse-grained materials (Heiniger and Studer), Sept., 132
- Elastic modulus:** Resonant-column apparatus for coarse-grained materials (Heiniger and Studer), Sept., 132
- El-Jandali, A.:** *see* Wu, T. H. and El-Jandali
- Errors:** Sand density measurements for laboratory studies (Trautmann, Kulhawy, and O'Rourke), Dec., 159

#### F

- Field tests:** Use of time series in geotechnical data analysis (Wu and El-Jandali), Dec., 151
- Filters**  
Geotextile filters for a large liquefaction tank (Hryciw, Cornet, and Dowding), Sept., 140
- Pore-pressure response of the piezocone penetrometer (Rad and Tumay), Sept., 125
- Franklin, J. A.:** A direct shear machine for testing rock joints, March, 25
- Freezing:** Soil freezing response: influence of test conditions (McCabe and Kettle), June, 49
- Frost heave:** Soil freezing response: influence of test conditions (McCabe and Kettle), June, 49
- Frozen soils:** Repeated load triaxial testing of frozen and thawed soils (Cole, Durrell, and Chamberlain), Dec., 166

## G-H

- Geotextiles:** ASTM geotextile committee testing update (Suits, Carroll, and Christopher), Dec., 191
- Heiniger, C. and Studer, J. A.:** Resonant-column apparatus for coarse-grained materials, Sept., 132
- Heterogeneity:** Determinations and uses of strain distributions in sand samples (Wong and Arthur), Sept., 101
- Howarth, D. F.:** Development and evaluation of ultrasonic piezoelectric transducers for the determination of dynamic Young's modulus of triaxially loaded rock cores, June, 59
- Hryciw, R. D., Cornet, J.-M., and Dowding, C. H.:** Geotextile filters for a large liquefaction tank, Sept., 140
- Hydraulic conductivity:** Pore-pressure response of the piezocone penetrometer (Rad and Tumay), Sept., 125

## I

- Instrumentation:** Sand density measurements for laboratory studies (Trautmann, Kulhawy, and O'Rourke), Dec., 159
- Ishibashi, I.:** Effect of grain characteristics on liquefaction potential—in search of standard sand for cyclic strength, Sept., 137
- ISSMFE Subcommittee on Field and Laboratory Testing:** Axial pile loading test—Part 1: static loading, June, 79

## J-K

- Johnston, I. W.:** *see* Lam, T. S. K. and Johnston, I. W.
- Joints:** A scanning device to quantify joint surface roughness (Lam and Johnston), Sept., 117
- Kettle, R. J.:** *see* McCabe, E. Y. and Kettle, R. J.
- Ko, H.-Y.:** *see* Meier, R. W., Ko, H.-Y., and Sture, S.
- Krizek, R. J. and Vipulanandan, C.:** Evaluation of adhesion in chemically grouted geomaterials, Dec., 184
- Kulhawy, F. H.:** *see* Trautmann, C. H., Kulhawy, F. H., and O'Rourke, T. D.

## L

## Laboratory tests

- A direct shear machine for testing rock joints (Franklin), March, 25
- Alternative test method for ensuring full saturation in triaxial samples (Strachan), March, 43
- Measurement of volumetric and linear shrinkage on black cotton soil (Subba Rao and Satyadas), June, 66
- A new automatic volume change monitoring device (Rad and Clough), Dec., 179
- Pore-pressure response of the piezocone penetrometer (Rad and Tumay), Sept., 125
- Use of Time Series in geotechnical data analysis (Wu and El-Jandule), Dec., 151
- Lam, T. S. K. and Johnston, I. W.:** A scanning device to quantify joint surface roughness, Sept., 117

## Liquefaction

- Effect of grain characteristics on liquefaction potential—in search of standard sand for cyclic strength (Ishibashi), Sept., 137
- Geotextile filters for a large liquefaction tank (Hryciw, Cornet, and Dowding), Sept., 140

## Liquid limit

- The effect of clay content on liquid limit from a fall cone and the British cup device (Budhu), June, 91
- Liquid limit of soil mixtures (Sivapullaiah and Sridharan), Sept., 111

## Loading distribution: Axial pile loading test—Part 1: static loading (ISSMFE), June, 79

## Load tests: Axial pile loading test—Part 1: static loading (ISSMFE), June, 79

## M

- Marine geology:** An underwater instrument for determining bearing capacity of shallow marine sediments (Circé), June, 96
- McCabe, E. Y. and Kettle, R. J.:** Soil freezing response: influence of test conditions, June, 49
- Meier, R. W., Ko, H.-Y., and Sture, S.:** A direct tensile loading apparatus combined with a cubical test cell for testing rocks and concrete, June, 71
- Murthy, B. R. S.:** *see* Nagaraj, T. S. and Murthy, B. R. S.
- Myer, L. R.:** Electro-servo control system for thermomechanical properties testing, Dec., 171

## N-O

- Nagaraj, T. S. and Murthy, B. R. S.:** Prediction of the preconsolidation pressure and recompression index soils, Dec., 199
- O'Rourke, T. D.:** *see* Trautmann, C. H., Kulhawy, F. H., and O'Rourke, T. D.

## P

- Parkin, A. K.:** Discussion of "The Theory of One-Dimensional Consolidation of Saturated Clays: III. Existing Testing Procedures and Analyses" by D. Znidarcic, P. Croce, V. Pane, H.-Y. Ko, H. W. Olsen, and R. L. Schiffman, Sept., 143
- Parry, R. H. G.:** *see* Almeida, M. S. S. and Parry, R. H. G.
- Piezoelectric effects:** Development and evaluation of ultrasonic piezoelectric transducers for the determination of dynamic Young's modulus of triaxially loaded rock cores (Howarth), June, 59
- Plasticity index:** Liquid limit of soil mixtures (Sivapullaiah and Sridharan), Sept., 111
- Pore pressures**
- A new automatic volume change monitoring device (Rad and Clough), Dec., 179
- Small cone penetrometer tests and piezocone tests in laboratory consolidated clays (Almeida and Parry), March, 14

## Pore-water pressures

- Effect of grain characteristics on liquefaction potential—in search of standard sand for cyclic strength (Ishibashi), Sept., 137

Prediction of pore-water pressure buildup during undrained resonant column testing of virgin sand specimens (Chung and Yokel), March, 41

**Prakash, K.:** *see* Sridharan, A. and Prakash, K.

**Precompression pressure:** Prediction of the preconsolidation pressure and recompression index of soils (Nagaraj and Murthy), Dec., 199

## R

- Rad, N. S. and Clough, G. W.:** A new automatic volume change monitoring device, Dec., 179
- Rad, N. S. and Tumay, M. T.:** Pore-pressure response of the piezocone penetrometer, Sept., 125
- Recompression:** Prediction of the preconsolidation pressure and recompression index of soils (Nagaraj and Murthy), Dec., 199

## Rocks

- Development and evaluation of ultrasonic piezoelectric transducers for the determination of dynamic Young's modulus of triaxially loaded rock cores (Howarth), June, 59
- A direct shear machine for testing rock joints (Franklin), March, 25
- A direct tensile loading apparatus combined with a cubical test cell for testing rocks and concrete (Meier, Ko, and Sture), June, 71
- Electro-servo control system for thermomechanical properties testing (Myer), Dec., 171
- Evaluation of adhesion in chemically grouted geomaterials (Krizek and Vipulanandan), Dec., 184
- A scanning device to quantify joint surface roughness (Lam and Johnston), Sept., 117

## S

## Sands

- Effect of grain characteristics on liquefaction potential—in search of standard sand for cyclic strength (Ishibashi), 137
- Geotextile filters for a large liquefaction tank (Hryciw, Cornet, and Dowding), Sept., 140
- Prediction of pore-water pressures buildup during undrained resonant column testing of virgin sand specimens (Chung and Yokel), March, 41
- Satyadas, G. C.:** *see* Subba Rao, K. S. and Satyadas, G. C.
- Schiffman, R. L.:** Closure to Discussion by Parkin, A. K., Sept., 143
- Shear strain:** Prediction of pore-water pressure buildup during undrained resonant column testing of virgin sand specimens (Chung and Yokel), March, 41
- Shear strength**
- The Effect of clay content on liquid limit from a fall cone and the British cup device (Budhu), June, 91
- A scanning device to quantify joint surface roughness (Lam and Johnston), Sept., 117

**Shrinkage:** Measurement of volumetric and linear shrinkage on black cotton soil (Subba Rao and Satyadas), June, 66

**Sivapullaiah, P. V. and Sridharan, A.:** Liquid limit of soil mixtures, Sept., 111

**Smolczyk, U.:** Axial pile loading test—Part 1: static loading, June, 79

#### Soil tests

Alternative test method for ensuring full saturation in triaxial samples (Strachan), March, 43

Improved rectangular hyperbola method for the determination of coefficient of consolidation (Sridharan and Prakash), March, 37

Measurement of axial strains in triaxial tests on London clay (Costa Filho), March, 3

Measurement of volumetric and linear shrinkage on black cotton soil (Subba Rao and Satyadas), June, 66

A new automatic volume change monitoring device (Rad and Clough), Dec., 179

Prediction of the preconsolidation pressure and recompression index of soils (Nagaraj and Murthy), Dec., 199

#### Soils

Discussion of "The Theory of One-Dimensional Consolidation of Saturated Clays: III. Existing Testing Procedures and Analyses" by D. Znidarcic, P. Croce, V. Pane, H.-Y. Ko, H. W. Olsen, and R. L. Schiffman (Parkin), Sept., 143

Soil freezing response: Influence of test conditions (McCabe and Kettle), June, 49

**Sridharan, A.:** *see* Sivapullaiah, P. V. and Sridharan, A.

**Sridharan, A. and Prakash, K.:** Improved rectangular hyperbola method for the determination of coefficient of consolidation, March, 37

**Standards:** ASTM geotextile committee testing update (Suits, Carroll, and Christopher), Dec., 191

**Static pile bearing capacity:** Axial pile loading test—Part 1: static loading (ISSMFE), June, 79

**Strachan, P.:** Alternative test method for ensuring full saturation in triaxial samples, March, 43

**Studer, J. A.:** *see* Heiniger, C. and Studer, J. A.

**Sture, S.:** *see* Meier, R. W., Ko, H.-Y., and Sture, S.

**Subba Rao, K. S. and Satyadas, G. C.:** Measurement of volumetric and linear shrinkage on black cotton soil, June, 66

**Suits, L. D., Carroll, R. G., Jr., and Christopher, B. R.:** ASTM geotextile committee testing update, Dec., 191

#### T

**Tensile strength:** ASTM geotextile committee testing update (Suits, Carroll, and Christopher), Dec., 191

**Tensile stress:** A direct tensile loading apparatus combined with a cubical test cell for testing rocks and concrete (Meier, Ko, and Sture), June, 71

**Testing machines:** Electro-servo control system for thermomechanical properties testing (Myer), Dec., 171

**Thawed soils:** Repeated load triaxial testing of

frozen and thawed soils (Cole, Durell, and Chamberlain), Dec., 166

**Trautmann, C. H., Kulhawy, F. H., and O'Rourke, T. D.:** Sand density measurements for laboratory studies, Dec., 159

#### Triaxial tests

Alternative test method for ensuring full saturation in triaxial samples (Strachan), March, 43

Development and evaluation of ultrasonic piezoelectric transducers for the determination of dynamic Young's modulus of triaxially loaded rock cores (Howarth), June, 59

Measurement of axial strains in triaxial tests on London clay (Costa Filho), March, 3

Repeated load triaxial testing of frozen and thawed soils (Cole, Durell, and Chamberlain), Dec., 166

**Tumay, M. T.:** *see* Rad, N. S. and Tumay, M. T.

#### U-Z

**Unconfined compression tests:** Use of time series in geotechnical data analysis (Wu and El-Jandali), Dec., 151

**Vipulanandan, C.:** *see* Krizek, R. J. and Vipulanandan, C.

**Wong, R. K. S. and Arthur, J. R. F.:** Determinations and uses of strain distributions in sand samples, Sept., 101

**Wu, T. H. and El-Jandali, A.:** Use of Time Series in Geotechnical Data Analysis, Dec., 151

**Yokel, F. Y.:** *see* Chung, R. M. and Yokel, F. Y.