Cement, Concrete, and Aggregates Index to Volume 13 1991

Number	Issue	Pages
1	Summer	3-77
2	Winter	78-133

Acceptability: Development of ASTM Method C 1012 with recommended acceptance limits for sulfate resistance of hydraulic cements (Patzias), Summer, 50

Admixtures

Effect of extended use of set-retarded concrete in hot weather (Mittelacher), Winter, 125

Evaluation of concrete mixtures for underwater pile repairs (Khayat and Hester), Summer, 32

Troubleshooting retarded concrete: understanding the role of cement and admixtures through an interdisciplinary approach (Jeknavorian and Hayden), Winter, 103

Aggregates

Rapid autoclave mortar bar method to determine the potential alkali-silica reactivity of St. Lawrence Lowlands carbonate aggregates (Ouebec, Canada) (Fournier, Berube, and Bergeron), Summer, 58

Reduction in mortar and concrete expansion with reactive aggregates due to alkali leaching (Rogers and Hooton), Summer,

Air content

Comparison of air contents in fresh and hardened concretes using different airmeters (Khayat and Nasser), Summer, 18 Comparison of the air contents of freshly mixed and hardened concretes (Ozyildi-

rim), Summer, 11

Air entrainment: Testing fly ash in mortars for air-entrainment characteristics (Lane),

Air measuring instruments: Comparison of air contents in fresh and hardened concretes using different airmeters (Khayat and Nasser), Summer, 18

Aitcin, P.-C.

see Ezeldin, A. S. and Aitcin, P.-C. see Sarkar, S. L., Baalbaki, M., and Aitcin,

Alkali-aggregate reactivity: Rapid autoclave mortar bar method to determine the potential alkali-silica reactivity of St. Lawrence Lowlands carbonate aggregates (Quebec, Canada) (Fournier, Berube, and Bergeron), Summer, 58

Autoclave: Rapid autoclave mortar bar method to determine the potential alkali-silica reactivity of St. Lawrence Lowlands carbonate aggregates (Quebec, Canada) (Fournier, Berube, and Bergeron), Summer, 58

Baalbaki, M.: see Sarkar, S. L., Baalbaki, M., and Aitcin, P. C.

Bergeron, G.: see Fournier, B., Berube, M. A., Bergeron, G.

Berube, M. A.: see Fournier, B., Berube, M. A., Bergeron, G.

Book reviews

Alkali-Activated Slag by Anderson et al (Idorn), Summer, 75

Handbook of Fiber-Reinforced Concrete Concrete by Beaudoin (Klieger), Sum-

Building codes: Improvement of concrete strength statistical control (Leshchinsky), Winter, 88

C

Campbell, D. H. and Galehouse, J. S.: Quantitative clinker microscopy with the light microscope, Winter, 94

Effect of extended use of set-retarded concrete in hot weather (Mittelacher), Winter, 125

Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94

Troubleshooting retarded concrete: understanding the role of cement and admixtures through an interdisciplinary approach (Jeknavorian and Hayden), Winter, 103

Cement clinker

Cement clinker characterization by scanning electron microscopy (Stutzman), Winter, 109

Quantitative phase analysis of clinker using x-ray diffraction (Struble), Winter, 97

Chemical analysis: Troubleshooting retarded concrete: understanding the role of cement and admixtures through an interdisciplinary approach (Jeknavorian and Hayden), Win-

Clinker: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94

Clinker microstructure: Cement clinker characterization by scanning electron microscopy (Stutzman), Winter, 109

Coarse aggregate: Effect of coarse aggregate on the behavior of normal and high-strength concretes (Ezeldin and Aitcin), Winter, 121

Compressive strength

Effect of coarse aggregate on the behavior of normal and high-strength concretes (Ezeldin and Aitcin), Winter, 121

Microstructural development in a highstrength concrete containing a ternary cementitious system (Sarkar, Baalbaki, and Aitcin), Winter, 81

Computer simulations: Investigation of the minimum expected uncertainty in the linear transverse technique (Snyder, Hover, and Natesaiyer), Summer, 3

Concrete

Effect of extended use of set-retarded concrete in hot weather (Mittelacher), Win-

Improvement of concrete strength statistical control (Leshchinsky), Winter, 88

Rapid autoclave mortar bar method to determine the potential alkali-silica reactivity of St. Lawrence Lowlands carbonate aggregates (Quebec, Canada) (Fournier, Berube, and Bergeron), Summer, 58

Reduction in mortar and concrete expansion with reactive aggregates due to alkali leaching (Rogers and Hooton), Summer,

Testing fly ash in mortars for air-entrainment characteristics (Lane), Summer, 25 Troubleshooting retarded concrete: understanding the role of cement and admixtures through an interdisciplinary approach (Jeknavorian and Hayden), Winter, 103

Dispersion in solvents: Analysis of factors affecting particle-size distribution of hydraulic cements (Malghan and Lum), Win-

Dolomitic limestone: Reduction in mortar and concrete expansion with reactive aggregates due to alkali leaching (Rogers and Hooton), Summer, 42

Ezeldin, A. S. and Aitcin, P.-C.: Effect of coarse aggregate on the behavior of normal and high-strength concretes, Winter, 121

Field performance: Effect of extended use of set-retarded concrete in hot weather (Mittelacher), Winter, 125

Flexural strength: Effect of coarse aggregate on the behavior of normal and high-strength concretes (Ezeldin and Aitcin), Winter, 121

Fly ash

Microstructural development in a highstrength concrete containing a ternary cementitious system (Sarkar, Baalbaki, and Aitcin), Winter, 81

Testing fly ash in mortars for air-entrainment characteristics (Lane), Summer, 25

Fournier, B., Berube, M. A., Bergeron, G.: Rapid autoclave mortar bar method to determine the potential alkali-silica reactivity of St. Lawrence Lowlands carbonate aggregates (Quebec, Canada), Summer, 58

Fresh concrete: Comparison of air contents in fresh and hardened concretes using different airmeters (Khayat and Nasser), Summer, 18

G-H

Galehouse, J. S.: see Campbell, D. H. and Galehouse, J. S.

- Hardened concrete: Comparison of air contents in fresh and hardened concretes using different airmeters (Khayat and Nasser), Summer, 18
- Hayden, T. D.: see Jeknavorian, A. A. and Hayden, T. D.
- Hester, W. T.: see Khayat, K. H. and Hester, W. T.
- High-range water reducers: Effect of extended use of set-retarded concrete in hot weather (Mittelacher), Winter, 125

High-strength concrete

- Effect of coarse aggregate on the behavior of normal and high-strength concretes (Ezeldin and Aitcin), Winter, 121
- Microstructural development in a highstrength concrete containing a ternary cementitious system (Sarkar, Baalbaki, and Aitcin), Winter,

Hooton, R. D.

- Introduction to Symposium on Characterization of Hydraulic Cements, Winter, 93 see Rogers, C. A. and Hooton, R. D.
- Hover, K.: see Snyder, K., Hover, K., and Natesaiyer, K.

Hydraulic cements

- Analysis of factors affecting particle-size distribution of hydraulic cements (Malghan and Lum), Winter, 115
- Introduction to symposium on characterization of hydraulic cements (Hooton), Winter, 93

I-K

- Idorn, G. M.: Review of Alkali-Activated Slag by Anderson, Gram, Malolepszy, and Deja, Summer, 75
- Image analysis: Cement clinker characterization by scanning electron microscopy (Stutzman), Winter, 109
- Jeknavorian, A. A. and Hayden, T. D.: Troubleshooting retarded concrete: understanding the role of cement and admixtures through an interdisciplinary approach, Winter, 103

Khayat, K. H.

- and Hester, W. T. Evaluation of concrete mixtures for underwater pile repairs, Summer, 32
- and Nasser, K. W.: Comparison of air contents in fresh and hardened concretes using different airmeters, Summer, 18
- Klieger, P.: Review of Handbook of Fiber-Reinforced Concrete by Beaudoin, Summer, 75

L

- Lane, D. S.: Testing fly ash in mortars for airentrainment characteristics, Summer, 25
- Leshchinsky, A. M.: Improvement of concrete strength statistical control, Winter, 88

Linear traverse theory

Investigation of the minimum expected uncertainty in the linear traverse technique (Snyder, Hover, and Natesaiyer), Summer, 3

- Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Lum, L.-S. H.: see Malghan, S. G. and Lum, L.-S. H.

M

- Malghan, S. G. and Lum, L.-S. H.: Analysis of factors affecting particle-size distribution of hydraulic cements, Winter 115
- Marine piles: Evaluation of concrete mixtures for underwater pile repairs (Khayat and Hester), Summer, 32
- Microscopy: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Microstructure: Microstructural development in a high-strength concrete containing a ternary cementitious system (Sarkar, Baalbaki, and Aitcin), Winter, 81
- Mittelacher, M.: Effect of extended use of setretarded concrete in hot weather, Winter, 125
- Mortar: Testing fly ash in mortars for air-entrainment characteristics (Lane), Summer, 25

N-O

- Nasser, K. W.: see Khayat, K. H. and Nasser, K. W.
- Natesaiyer, K.: see Snyder, K., Hover, K., and Natesaiyer, K.
- Ozyildirim, C.: Comparison of the air contents of freshly mixed and hardened concretes, Summer, 11

P

- Particles: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Particle-size distribution: Analysis of factors affecting particle-size distribution of hydraulic cements (Malghan and Lum), Winter, 115
- Patzias, T.: Development of ASTM Method C 1012 with recommended acceptance limits for sulfate resistance of hydraulic cements, Summer, 50
- Petrography: Cement clinker characterization by scanning electron microscopy (Stutzman), Winter, 109
- Phase abundance: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Point count: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Polished section: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Portland cement: Reduction in mortar and concrete expansion with reactive aggregates due to alkali leaching (Rogers and Hooton), Summer, 42
- Pressure meter: Comparison of the air contents of freshly mixed and hardened concretes (Ozyildirim), Summer, 11

Q-R

- Quality assurance: Improvement of concrete strength statistical control (Leshchinsky), Winter, 88
- Quantitative phase analysis: Quantitative phase analysis of clinker using X-ray diffraction (Struble), Winter, 97
- Retardation: Troubleshooting retarded concrete: understanding the role of cement and admixtures through an interdisciplinary approach (Jeknavorian and Hayden), Winter, 103
- Rogers, C. A. and Hooton, R. D.: Reduction in mortar and concrete expansion with reactive aggregates due to alkali leaching, Summer, 42

S

- Sarkar, S. L., Baalbaki, M., and Aitcin, P. C.: Microstructural development in a high-strength concrete containing a ternary cementitious system, Winter, 81
- Silica fume: Microstructural development in a high-strength concrete containing a ternary cementitious system (Sarkar, Baalbaki, and Aitcin), Winter, 81
- Snyder, K., Hover, K., and Natesaiyer, K.: Investigation of the minimum expected uncertainty in the linear traverse technique, Summer, 3
- Statistical control: Improvement of concrete strength statistical control (Leshchinsky), Winter, 88
- Struble, L. J.: Quantitative phase analysis of clinker using X-ray diffraction, Winter, 97
- Stutzman, P.: Cement clinker characterization by scanning electron microscopy, Winter, 109
- Sulfate attack: Development of ASTM Method C 1012 with recommended acceptance limits for sulfate resistance of hydraulic cements (Patzias), Summer, 50
- Symposium: Introduction to Symposium on Characterization of Hydraulic Cements (Hooton), Winter, 93

T

- Thin section: Quantitative clinker microscopy with the light microscope (Campbell and Galehouse), Winter, 94
- Tremie placement: Evaluation of concrete mixtures for underwater pile repairs (Khayat and Hester), Summer, 42

U-V

- Uncertainty: Investigation of the minimum expected uncertainty in the linear transverse technique (Snyder, Hover, and Natesaiver), Summer, 3
- Underwater repair: Evaluation of concrete mixtures for underwater pile repairs (Khayat and Hester), Summer, 32
- Volumetric meter: Comparison of the air contents of freshly mixed and hardened concretes (Ozyildirim), Summer, 11