

icma

Proceedings of the Sixteenth Annual International Conference On Cement Microscopy April 11-14, 1994 Richmond, Virginia USA

Title: Estimation of Grindability of Portland Cement Clinker

Author: Viggh, E. O.

pp. 1-10

Title: Environmental Attack on Concrete

Author: Bonen, D.; Sarkar, S. L.

pp. 11-23

Title: XRD Analysis of Aluminate and Aluminoferrite Phases on the Selective Extraction Clinker Residue by Using a Profile Fitting Program. Comparison between Experimental and Calculation Data in the Light of Optical Microscopy Examination.

Author: Saini, A.; Giuliani, N.

pp. 24-43

Title: Quantitative Structure Analysis of Portland Cement Clinker Via Image Analysis - A

Suitable Tool for Quality Control?

Author: Marten, A.; Knofel, D.; Strunge, J.

pp. 44-51

Title: Cracks and Voids in Cement Paste with Silica Fume **Author:** Darwin, D.; Nagib Abou-Zeid, M.; Ketcham, K. W.

pp. 52-68

Title: Alkali-Aggregate Reaction in Concrete Railway Sleepers from Finland

Author: Shayan, A.; Quick, G. W.

pp. 69-79

Title: SEM Studies of Corrosion of Cement Paste in Chlorides Solution

Author: Kurdowski, W.; Trybalska, B.; Duszak, S.

pp. 80-89

Title: Prediction of Burnability of Industrial Raw Mixes

Author: Centurione, S. L.; Kihara, Y.

pp. 90-102

Title: Examination of Burning Condition Characterization by Ono's Method

Author: Mor, U.; Perez, D

pp. 103-112

Title: Morphology and Growth Environment of Alite in Fused Portland Cement Clinker

Author: Maki, I.; Tanioka, T.

pp. 113-124

Title: Formation of AFm and AFt Phases in Hydrating Portland Cement

Author: Kuzel, H. J.

pp. 125-136

Title: Scanning Force Microscopy and Scanning Electron Microscopy of Modified Fly Ash for

Cement Applications

Author: Vempati, R.; Hess, T. R.; Rao, A.; Cocke, D. L.; Chair, G.; Guler, R.

pp. 137-154

Title: Permeability and Micro-Structure of High Performance Concrete

Author: Hansen, M. R.

pp. 155-173

Title: Application of Microscopic and XRD Techniques to Investigate Alkali-Silica Reactivity

Potential of Rocks and Minerals

Author: Thomson, M. L.; Grattan-Bellew, P. E.; White, J. C.

pp. 174-192

Title: The Effects of Cadmium Metal Salts on the Formation and Microstructure of Ettringite

Author: Tumidajski, P. J.; Thomson, M. L.

pp. 193-209

Title: Alinite Cement Made From Waste Incineration Residues - From Basic Research to

Application

Author: Motzet, H.; Neubauer, J.; Polmann, H.

pp. 210-229

Title: Effect of Nitrates on Cement Hydration

Author: Caveny, W. J.

pp. 230-238

Title: Environmental Scanning Electron Microscope (ESEM) Examination of Individually

Hydrated Portland Cement Phases

Author: Mehta, S.; Jones, R.; Caveny, B.; Chatterji, J.; McPherson, G.

pp. 239-256

Title: Rapid Strength Prediction of Portland Slag Cement by X-Ray Diffractometry

Author: Goswami, G.; Panigrahy, P. K.; Panda, J. D.

pp. 257-268

Title: SEM Study for Age of Cracks in Concrete

Author: Marusin, S. L.

pp. 269-279

Title: Petrographic Examination of Hardened Concrete Air Void Analysis and Case Histories

Relating to Air Content **Author:** Ray, J. A.

pp. 280-293

Title: Characteristics of Secondary Ettringite Deposited in Steam Cured Concretes Undergoing

ASR

Author: Diamond, S.; Ong, S.; Bonen, D.

pp. 294-305

Title: Comprehensive Studies of Old Mortars from Three Medieval Churches in Southern

Sweden

Author: Lindqvist, J. E.; Schouenborg, B.; Sandstrom, M.; Sandstrom, H.; Sandin, K.; Sidmar,

E.

pp. 306-322

Title: Microscopy As a Tool in New Product Development

Author: Carruthers, B.; Livesay, J.; Wells, J.

pp. 323-330

Title: Lime particle Size. Its Effect on Feed and Products of a Hydrator Circuit - A Plant Case

Study

Author: McKenzie, L. A.

pp. 331-353

Title: XRD and SEM Investigations of the Cement Paste - Aggregate Interface for Concrete

Produced by Both the Conventional Mixing and a New Mixing Technique

Author: Tamimi, A. K.; Al-Najeim, H.

pp. 354-368

Title: Observations of Concrete Exposed to Very High Temperature

Author: Powers-Couche, L. J.

pp. 369-376

Title: Microscopical Description of Clinker Sample No. 44 ICMA Sample Exchange Program

Author: Campbell, D. H.

pp. 377-380

Title: Chemical Reactivity of Alumino Silicate Minerals-Aggregates Constituents-, in a Basic

Medium

Author: Taczuk, L.; Sorrentino, D.; Bloise, R.; Michel, B.

pp. 381-398

Title: Reactions of Silica Fume and Alkali in Steam-Cured Concrete

Author: Shayan, A.; Quick, G. W.; Lancucki, C. J.

pp. 399-410