Slag Cement Concrete

Session at the ACI Fall 2008 Convention

ACI SP 263

St. Louis, Missouri, USA
2-6 November 2008

Editors:

Corina-Maria Aldea

ISBN: 978-1-61567-826-6
# TABLE OF CONTENTS

**SP-263—1**  
Use of Concrete Containing Slag Cement in Transportation Structures in Virginia ........................................ 1  
by C. Ozyildirim

**SP-263—2**  
Case Studies—North American Mass-Concrete Projects Featuring ASTM C989 Slag Cement ........................................ 13  
by M.D. Luther, P. Bohme, and W. Wilson

**SP-263—3**  
Effectiveness of Slag Cement in Preventing Alkali-Silica Reaction: Ten-Year Results............................................ 31  
by D.D. Higgins and G. McLellan

**SP-263—4**  
A Case Study on High-Performance Concrete Pavement Containing Slag Cement ............................................ 43  
by P.R. Rangaraju

**SP-263—5**  
Effect of Curing Temperature on Concrete Containing Slag Cement and Fly Ash in Ternary Mixtures................. 59  
by L.J. Wilhite, J.T. Vetter, and W.M. Hale

**SP-263—6**  
The Effect of Ground Granulated Blast Furnace Slag (Slag Cement) on the Drying Shrinkage of Concrete—  
A Critical Review of the Literature .......................................................................................................................... 79  
by R.D. Hooton, K. Stanish, J.P. Angel, and J. Prusinski

**SP-263—7**  
High-Volume Slag-Blended Cement Concrete for High-Density Concrete at Mid-Range Temperatures ............ 95  
by C.-M. Aldea, B. Cornelius, J. Balinski, B. Shenton, and J. Sato

**SP-263—8**  
The Effect of Temperature on the Rate of Strength Development of Slag Cement ........................................ 111  
by M.N. Soutsos, S.J. Barnett, S.G. Millard, and J.H. Bungey