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SYMPOSIUM VOLUME



Shrinkage Compensating Concrete – Past, Present, and Future

SP-307

Editor:
Chris Ramseyer



American Concrete Institute
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First printing, March 2016

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Farmington Hills, Michigan 48331

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Printed in the United States of America

Editorial production: Gail Tatum

ISBN-13: 978-1-942727-70-5

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Preface

With the exception of #9, these Papers were presented at:
ACI National Convention, Fall 2012 Toronto, Canada
In the Technical Session
Shrinkage Compensating Concrete – Past, Present, and Future
Part 1 and Part 2

This Publication is
Dedicated to
Edward K. Rice

Ed Rice has been involved in Shrinkage Compensating Concrete from its inception. As co-founder and President of T.Y. Lin and Associates from 1952 through 1970 Ed Rice promoted the novel use of concrete and concrete systems. As early as 1956 T.Y. Lin and Ed Rice provided the necessary funding for fundamental research by Alex Klein on expansive cements. This research led to the development of the Chemically Prestressed Concrete (CPC) co that was primarily in the pipe and roof slab business. In 1965 under Ed Rice's direction as Chairman of CPC, Ed licensed Kaiser to run the first full scale burn at their Cushenberry cement plant and commercially produce the first shrinkage compensating concrete clinker in the world.

In the fifty years since the first production run of shrinkage compensating cement Ed Rice has consistently worked to advance concrete cement technology. He holds 22 US patents in the field of concrete and building technology. For the last forty years Ed Rice has led CTS Cement Manufacturing Co., the largest producer of shrinkage compensating cement in North America. Often Ed Rice worked behind the scenes helping to promote shrinkage compensating concrete and the work of younger engineers. Ed Rice has been a consistent and steady advocate for both increased research on the behavior of shrinkage compensating cements; and increased use of shrinkage compensating concrete to produce stable and durable concrete structures.

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History of Shrinkage Compensating Cement

Edward K. Rice

Synopsis:

This short work details the history of Type K shrinkage compensating cement.

Keywords:

Development, history, Klein, shrinkage compensating cement, type K, SCC, Concrete shrinkage

Edward K. Rice

Author Biography:

Edward K. Rice, P.E., FACI, FASCE, is the founder and Chairman of CTS Cement Manufacturing Co, a leading manufacturer of specialty cements. He holds 22 patents in concrete and building technology. He is a member of the Post-Tensioning Institute Hall Of Fame, ASTM Honorary Member Committee C1, UC Berkeley Distinguished Engineering Alumnus and UCLA Lifetime Contributing Member