



*Cement and Concrete Products Industry of Hawaii*

# New Perspective on Concrete Durability in Hawaii

Dates: **Tuesday, March 6, 2012**

Place: Pagoda Hotel – CSB Makai Ballroom (2<sup>nd</sup> Floor)

Cost: **\$ 90 per person**

Registration Time: 7:00 am to 8:00 am Continental Breakfast & Table Top Exhibits

Seminar: 8:00 am to 3:00 pm (Lunch and handouts included)

This seminar explains the corrosion mechanisms that impact the durability of concrete structures in Hawaii's tropical and marine environment. Understand the nature of concrete and how it affects the performance of concrete structures and pavements. Understand the test methods, with limitations, used for measuring and predicting the targeted service life performance of concrete. Review of the building code and specification criteria for the durability of concrete structures.

## Concrete Basics

Corrosion Mechanisms in Hawaii - Chlorides, Carbonation & Permeability

Review ASR Investigative Study in Hawaii

Corrosion Protection Strategies for Concrete Mixes

Service-Life Prediction Models: Life-365 and Beyond

Specifying and Testing Concrete for Meeting Durability Requirements

Who should attend? Engineers and Architects involved in the design or specification of concrete structures. Contractors, field supervisors, inspectors, and testing technicians involved in the construction of concrete structures and pavements.

## Guest Speakers:

**Kevin Folliard** is Professor and Austin Industries Endowed Faculty Fellow in the Department of Civil Engineering at the University of Texas at Austin. Dr. Folliard's main research interests are in the area of concrete durability, including alkali-silica reaction, delayed ettringite formation, sulfate attack, and frost attack. He founded the Concrete Durability Center at the University of Texas at Austin in 2001. An ACI Fellow status, he is the chairman of the ACI 201 Committee on Durability of Concrete.

**Michael Thomas, PHD, PE** is a Professor of Civil Engineering at the University of New Brunswick, Canada and a registered Professional Engineer in the province of New Brunswick. Dr. Thomas' main research interests are concrete durability and the use of industrial by-products including pozzolans and slag. His studies on durability have included alkali-silica reaction, delayed ettringite formation, sulfate attack, deicer-salt scaling, carbonation, chloride ingress and embedded steel corrosion.



Kevin Folliard



Michael Thomas

- One of the most highly rated seminar at the **World of Concrete** on “Supplementary Cementing Materials for Durable and Sustainable Concrete.”
- Dr. Folliard conducts most of his research at the **Concrete Durability Center**, University of Texas at Austin. Research sponsors include FHWA, TxDOT, ICAR, and NCHRP.
- Developed the **ConcreteWorks software** for concrete durability and mixture proportioning. [www.texasconcreteworks.com](http://www.texasconcreteworks.com)

Concrete Durability Seminar – **March 6, 2012 at Pagoda Hotel**

Name (s): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Company: \_\_\_\_\_  
 Email: \_\_\_\_\_

\$ 90 per person x \_\_\_\_\_ = Total Amount: \$ \_\_\_\_\_

Mail form and remit payment to: **CCPI**  
 2153 N. King St. #327  
 Honolulu, HI 96819

Please register before March 1, 2012. Thank you.  
 Questions? Contact Wayne at 848-7100 or [wkawano@ccpihawaii.org](mailto:wkawano@ccpihawaii.org)