



OREGON ACI SEMINAR MAY 15th, 2019

IN PURSUIT OF EXCELLENCE IN CONCRETE FLATWORK



With: **Tim Cost, P.E., F.ACI**

Concrete flatwork – pavements, building slabs, driveways, sidewalks, and other finished concrete placed on prepared subgrade – is generally the largest market for ready-mixed concrete but is too often the concrete application resulting in the most issues and complaints. This seminar will review current flatwork design and construction guidance for designers and from the perspective of the practitioner, with focus on best practices and avoidance of common issues such as uncontrolled cracking, surface defects, and durability concerns. Parking areas and other light-traffic pavements, sidewalks and other pedestrian areas, commercial building slabs, and industrial pavements will be covered; related resources from ACI and the concrete industry will be reviewed.

WEDNESDAY **CROWNE PLAZA HOTEL**
MAY 15TH **14811 KRUSE OAKS DR**
7:00^{AM} – 5:00^{PM} **LAKE OSWEGO, OR 97035**

Engineers receive 6 PDH's
for Attending Seminar
Contractors receive 6 CEU's
for Attending Seminar

\$325.⁰⁰
Per Attendee

SPACE IS LIMITED TO 100 SEATS, SO BE SURE TO REGISTER EARLY!!



| | |
|--|--|
| 7:00^{AM} – 8:00^{AM} | REGISTRATION |
| 7:30^{AM} | Continental Breakfast will be provided |
| 8:00^{AM} – 8:30^{AM} | (30 min) Introduction and background; comparing and contrasting the types of flatwork |
| 8:30^{AM} – 9:30^{AM} | (60 min) Design – thickness, subgrades and subbases, concrete materials, structural |
| 9:30^{AM} – 10:00^{AM} | (30 min) Jointing – layout and spacing, types and function, reinforcement considerations, load transfer options, examples and practices that work (or not), what to avoid |
| 10:00^{AM} – 10:15^{AM} | BREAK |
| 10:15^{AM} – 10:45^{AM} | (30 min) Jointing, continued |
| 10:45^{AM} – 11:30^{AM} | (45 min) Construction – planning, site prep, selection of equipment and methods |
| 11:30^{AM} – 12:00^{PM} | (30 min) Use of ACI 330 documents – simple parking lots to industrial pavements |
| 12:00^{PM} – 12:45^{PM} | LUNCH |
| 12:45^{PM} – 2:00^{PM} | (75 min) Uncontrolled cracking of flatwork – why it happens, critical influences, how to avoid |
| 2:00^{PM} – 2:45^{PM} | (45 min) Best practices and reality – bringing good design and site execution closer together – how realistic is crack- and blemish-free, durable flatwork and what's really important? |
| 2:45^{PM} – 3:00^{PM} | BREAK |
| 3:00^{PM} – 3:45^{PM} | (45 min) Concrete overlays for pavement rehabilitation |
| 3:45^{PM} – 4:30^{PM} | (45 min) New resources and testing options for QC, mix design, and avoiding field problems |
| 4:30^{PM} – 4:45^{PM} | (15 min) Wrap-up, questions and discussion |
| 4:45^{PM} | ADJOURN |

ABOUT THE SPEAKER:

Tim Cost has over 41 years of professional technical experience relating to concrete materials and applications. A native of Jackson, MS, he spent his entire working career in the southeastern US, residing in the Madison, MS area. He retired from LafargeHolcim (formerly Holcim US) in May of 2017 after 21 years with the company, and has relocated to Mesquite, Nevada. LafargeHolcim is an international company producing and supplying portland cement and other cementitious materials for concrete, with subsidiary companies in the concrete, aggregates, and concrete products businesses.

As Senior Technical Service Engineer for the LafargeHolcim Southern Region (including all of LA, MS, AL, and AR, and parts of TN & FL), his responsibilities included technical services related to concrete materials, performance, and applications, industry education and advocacy, product development and quality assurance interaction with Holcim plants, and collaborative work with various stakeholders and public agencies on cement and concrete standards. Prior to this role, he served in positions with the Portland Cement Association and the Mississippi Concrete Industries Association (MCI) from 1986 to 1996. In these positions his duties included similar technical services roles as well as

industry advocacy and association management. For the first 10 years of his career (1976-1987), he worked in reinforced concrete structures research at the US Army Corps of Engineers Waterways Experiment Station (now the Corps' Engineer Research Development Center) in Vicksburg. His expertise includes cementitious materials, cement-admixture interaction, calorimetry, portland-limestone cements, concrete properties and performance, concrete mix design, concrete durability, concrete pavements, and other areas of cement and concrete technology.

Mr. Cost is a Fellow of ACI and is active in various other professional organizations and industry trade associations. He is past chair and current member of ACI committee 330 for Concrete Parking Lots and Site Paving, and is an active member of several other ACI committees that deal with concrete flatwork, mix proportioning, and soil stabilization. He was a recipient of the ACI's Delmar L. Bloem Distinguished Service Award in 2010, was presented with an ACI Chapter Activities Award in 2018, and was recognized by MCI with the Lifetime Achievement Award in 2015. He has served as an officer of ASTM Committees C01 (Cement) and C09 (Concrete and Concrete Aggregates) and Chair of Subcommittee C01/09.48 (Performance

of Cementitious Materials and Admixture Combinations). He has served as a speaker or instructor for many organizations, including ACI International, the CONEXPO/Con-Agg trade show, the National Ready-Mixed Concrete Association, and the World of Concrete trade show. He has authored and published a number of papers dealing with thermal test methods for materials evaluation, incompatibility of materials, portland-limestone cements, testing for support of concrete mix design optimization, concrete pavements, and other topics relating to concrete and soil stabilization technologies.

His education includes a B.S. and graduate studies in Civil Engineering from Mississippi State University. He is a registered Professional Engineer in Mississippi.



Tim Cost, P.E., F.ACI
V. T. Cost Consulting, LLC
President

Please complete the registration form below (can be filled out in Adobe Acrobat or printed and completed).

Registrant Name:

Company/Organization:

Phone Number: **Email Address:**

Choose Amount of Payment: **\$325** Non-Member **\$292.50** (\$325 Less 10%) OACI Corporate Member **\$292.50** (\$325 Less 10%) OACI Individual Member

Corporate membership: \$500 yearly fee*, unlimited use for all members of your organization. *Individual membership: \$90 yearly fee*, for personal use only.

Register Via Mail: with check (made out to "OACI") or credit card information completed, send to... **OACI P.O. Box 2958 Vancouver, WA 98668**

***To Register for an OACI Membership Please Visit: www.OregonACI.org**

FOR SECURITY REASONS, DO NOT SEND PAYMENT INFORMATION BY EMAIL!
 OACI has provided a secure, online payment method at: <http://pay.oregonaci.org>

| | |
|---|---|
| <p>Pay By MAIL: CHECK or CARD</p> <p><i>For credit cards, by checking this box, you authorize OACI to run the card for the total amount above.</i></p> | <p>- OR -</p> <p>Pay ONLINE (Secure Credit Card Transaction): http://pay.oregonaci.org</p> |
| <p>Name: <input type="text"/></p> <p><small>As it appears on Credit Card</small></p> | |
| <p>Credit Card #: <input type="text"/></p> | |
| <p>Credit Card Exp Date: <input type="text"/></p> | <p>3-Digit Code: <input type="text"/></p> <p><small>On back of Credit Card</small></p> |
| <p>Billing Zip Code: <input type="text"/></p> | |

For more information: Call 503.753.3075 or Visit www.OregonACI.org

