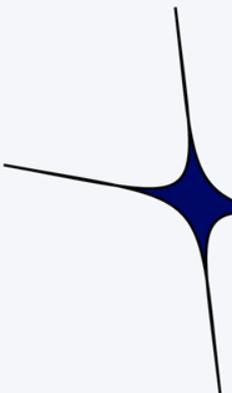


Updates on the ACPA Education and Training Program

AASHTO Subcommittee on
Materials Meeting
Asheville, NC
August 5, 2008

A graphic element consisting of a central dark blue starburst shape with four points, from which four thin black lines extend outwards towards the corners of the slide.

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Dr. Michael Ayers
Director of Highway
Pavement Technology



E&T Membership

- 5 Contractor members.
- 4 ACPA Chapter/State representatives.
- 1 from each of the following groups:
 - FHWA
 - State DOT
 - ACPA Materials Division representative.
 - ACPA Equipment Division representative.
 - CP Tech Center representative.
- Friends of the E&T Task Force are welcomed but do not have voting privileges.

Topics for Today

- The primary goal of today's presentation is to provide an overview of current E&T activities:
 - Concrete Pavements 101.
 - Airport Seminar.
 - Streets and Local Roads Seminars.
 - Professor's Seminar.
 - Contractor/Agency training courses.
 - Webinar series.
 - Others.

Concrete Pavements 101

- CP 101 (Design, Construction and Rehabilitation of Concrete Pavements) has been the flagship ACPA training course since its inception in 2002.
- This 3-day course is a traditional classroom offering consisting of a variable number of training modules selected to meet the needs of the sponsor*.
- The desired number of participants is 15 and above.
- The course fee is \$795.00 for non-members, \$695.00 for ACPA members and affiliates and \$495.00 for Agencies.
- Three regional courses are offered each year:
 - Tampa, FL, April 8-10, 2008.
 - Oakland, CA, August 25-27, 2008.
 - Austin, TX, November 4-6, 2008.

Airport Seminar

- The Airport Seminars are managed by ACPA's Gary Mitchell with the cooperation of FAA.
- These regional courses are offered an average of two times per year based on demand.
- The course covers design, construction and rehabilitation of airfield pavements.
- The latest P-501 specifications and IPRF research topics are incorporated in these seminars.

Streets and Local Roads Seminars

- The SLR Seminars are managed by Scott Haislip.
- These 1-day seminars are typically offered by request.
- The number of seminars varies but interest in the StreetPave design software has generated significant interest in 2007 and 2008.

Professor's Seminar

- The Professor's Seminar is offered once per year and targets University faculty teaching both graduate and undergraduate courses in transportation, pavements or materials.
- The seminar was rethought for 2008 and is now 4 days in length to allow for a wider range of topics and a construction site visit.
- Speakers include ACPA staff, FHWA and consultants and covers highways, SLR and airfields plus many general topics.

Historical Perspective

- ACPA has offered “how to” seminars for many years through C/S workshops.
- This approach has some limitations due to time, focus and audience.
- ACPA offers detailed courses in design, construction, rehabilitation and materials.
- The recently developed contractor/agency targeted training program presents more “how to” information.

“How to” Training Courses (IMCP Manual Training)

- ACPA participated in development of the Integrated Materials and Construction Practices Manual (IMCP).
- FHWA funded a series of approximately sixteen 1 to 2-day courses focused on use of the IMCP Manual.
- ACPA, CTL and the CP Tech Center delivered these courses throughout the spring of 2008.
- The IMCP is being readied for learning-on-demand delivery later in 2008.

Contractor/Agency Training Courses

- A series of contractor/agency training modules were developed in 2006 and 2007 in response to a request from the ACPA Highway Committee.
- These 1-day courses are offered on-site at the request of either a contractor member, agency or C/S representative.
- A number of these modules are also being offered through the webinar series.

Webinar Series

- The webinar online training courses began in January of this year.
- A total of 16 courses have been scheduled and advertized for 2008.
- The topics include pavement design (M-E PDG), jointing practices, mix design, construction operations, troubleshooting and many others.
- The 2008 program was designed to highlight basic concepts.
- The 2009 program will build on these basic modules with highly detailed coverage of various aspects of the 2008 program.

2008 Webinar Topics

Date	Webinar # and Topic
11-Jan	Webinar #1, Concrete Mix Design Basics (IMCP based)
31-Jan	Webinar #2, Texturing Concrete Pavements
18-Feb	Webinar #3 Introduction to the M-E PDG
4-Mar	Webinar #4, Joint Layout and Design
18-Mar	Webinar #5, Troubleshooting Slabs on Grade
4-Apr	Webinar #6, Life Cycle Cost Basics
18-Apr	Webinar #7, Thickness Design for Municipal Pavements
2-May	Webinar #8, Concrete Pavement Materials (IMCP based)
13-May	Webinar #9, Curing
20-Jun	Webinar #10, Slipform Paving Operations
9-Sep	Webinar #11, Concrete Pavement Sustainability
23-Sep	Webinar #12, Thickness Design for Municipal Pavements
9-Oct	Webinar #13, Hydration Processes (IMCP based)
28-Oct	Webinar #14, Materials Incompatibility (IMCP based)
18-Nov	Webinar #15, Soil Stabilization
9-Dec	Webinar #16, Maturity

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Webinar Series

- Demand for the program has been much greater than anticipated.
 - The first 5 webinars exceeded the projected number of participants for the scheduled 16 webinar series.
 - The audience is broad based consisting of contractors, industry, agencies, consultants and others.
 - To-date, 10 webinars have been conducted with a recorded number of 990 participants.
 - The current webinar cost is \$25 per session (1 PDH).

Webinar Series

- Data for the first 5 webinars indicates the following mix of participants

PARTICIPANT AFFILIATION	NUMBER
AIRPORT OWNERS	21
ASSOCIATION	7
CEMENT COMPANY	10
CHAPTER/STATE PAVING ASSN.	18
CONSULTANT	174
CONTRACTOR	123
COUNTY DEPARTMENT	15
DOT	123
EQUIPMENT	3
FHWA	1
MATERIAL	6
MUNICIPALITY	40
READY MIX	6
TOLLWAY AUTHORITY	8
UNIVERSITY	5

Awarding PDH Credits

- A brief online quiz is offered at the conclusion of each webinar.
- The quiz covers key points addressed in the presentation
 - The quiz is a desirable back-up for claiming PDH credits in a number of states.
- Webinar/quiz selling points:
 - For engineers, it's the ability to receive training required to maintain P.E. licenses without travel and losing "billable hours."
 - For contractors, it is the validation of the training to be used on the job.

Learning on Demand

- Learning on demand training will likely have an impact equal to the webinar series.
- The system can be web-based or available on CD's (interactive?).
- The subject matter will parallel the webinar series topics.
- The LOD program will be debuted this fall and is anticipated to be fully operational in 2009.

Potential Training Modules

Jointing/Load Transfer
Curing
Finishing
Texturing
Stockpile Management
Safety
Forming
Mix Design Evaluation
Equipment Set-up
Testing
Troubleshooting
Maturity
Design/Plan Verification

Profile Measurement
Environmental Issues
Soil Stabilization
Base Selection and Construction
Subsurface Drainage Systems
Basic Statistics
Optimized Mixes
Communications
Life Cycle Cost Analyses
Specifications
Constructability Issues
Value Engineering
Design Basics

Summary

- ACPA will continue to offer wide range of training topics and traditional classroom training.
- PDH credits and learning validation (certification) are valued and delivered wherever possible.
- We recommend:
 - Supplementing traditional training approaches.
 - Adding web-based training as another means of reaching customers and contractor personnel.
 - Development and delivery of self-directed training courses.

THANK YOU!

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