

ACPA

Concrete Pavement Webinar Series



2010

Webinar Program and
Learning-on-Demand Course Offerings



Education and training in the transportation-construction community once again reaches new heights in 2010 with the American Concrete Pavement Association's (ACPA's) highly acclaimed webinar series.

ACPA webinars provide the latest information about topics of the greatest importance to contractors, consultants, agencies, and others in the transportation-construction community.

Some of the most highly respected subject matter experts will present basic (60 minute) and intermediate (90 minute) webinars on a wide range of topics.

What's Covered?

The courses will cover virtually every aspect of design, construction, and rehabilitation of concrete pavements.

The program also will cover timely topics such as sustainability, energy, fuel efficiency, and more.

There also will be application specific webinars that

will focus on unique aspects of highways, or airports, roadways, or industrial/commercial pavements.

What's New for 2010?

Here are some of the highlights of our webinar program:

- < Modified program features 18 content-rich webinars.

- < More opportunities for interaction.

- < Dynamic presentation materials.

- < Special pricing on ACPA periodicals and resources.

- < Special access and special invitations to ACPA sponsored

education & training

events, including our popular "Concrete Pavement University" program, held in

conjunction with ACPA's 47th annual meeting in

Bonita Springs, Fla. From November 29 -

December 3, 2010.



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Who Should Participate?

Almost anyone with involvement or an interest in pavements should attend. New webinars in 2010 will provide an overview of various topics; these webinars are ideal for busy people who need to know the basics.

Our 60- to 90-minute programs are designed for those who want an intermediate level course that covers various topics in greater depth.

ACPA's webinar program is designed for:

- < Contractors.
- < Consultants.
- < Engineers.
- < Federal agencies (including FHWA and FAA).
- < Military and Dept. of Defense contractors and engineers.
- < Municipal and county public works officials.
- < Metropolitan Planning Organization officials.
- < Academia.

Some of our programs are also ideal for materials engineers, inspectors, and other agency personnel.

A few of our webinars are also well suited for facilities managers, architects, and other asset managers and planning professionals who need to enhance their knowledge of pavements.

Registration is fast and easy. To get started, visit www.acpa.org. Follow the links to the ACPA bookstore or the "education & training" section to register online. For additional information or assistance, contact ACPA at 847.966.2272 or www.acpa.org.

Webinar Rates

ACPA offers 60 and 90 minute webinars. All of our webinars begin at 1 p.m. Central / 2 p.m. Eastern. Please allow up to 20 minutes extra for a question-and-answer session that follows each webinar.

Registration rates are as follows:

60 minute webinars

- < \$65 per webinar (*non-members*)
- < \$35 per webinar (members only)
- < \$25 per webinar (government employees)

Need help?

Your ACPA staff is available to assist you with any aspect of your webinar experience.

- < **Webinar Topics and Content: Mike Ayers** 217-621-3438 | mayers@acpa.org
- < **Registration — Debbie Becker** 847-972-9802 | dbecker@acpa.org

- < **Billing — Marian Greco** 847-972-9834 | mgreco@acpa.org
- < **General Questions — Bill Davenport** 847-972-9810 / bdavenport@acpa.org



90 minute webinars

- < \$90 per webinar (*non-members*)
- < \$50 per webinar (members only)
- < \$35 per webinar (government employees)

Registration is Fast & Easy

Register online at www.acpa.org. Please visit www.acpa.org (and see the “bookstore” tab). Alternatively, follow the education & training links or the ACPA E&T Program icon, and then scroll down to the 2010 webinar program.

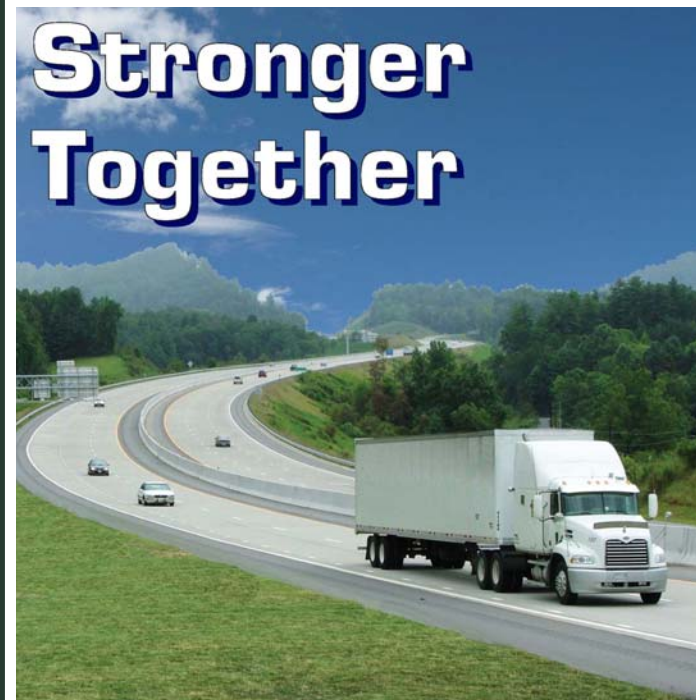
Terms and Conditions

- < A \$5 processing fee will be charged for each webinar canceled by the registrants or other company/organization representatives.

- < Professional development hours (PDH’s) will be awarded only to individuals who score a 70% or higher on the ACPA-administered PDH exam. Persons who do not pass the exam may re-test.
- < PDH’s will be issued only to persons whose payments have been processed satisfactorily.
- < Rates are applicable to all participants.
- < Course materials are offered at the conclusion of each webinar. Course materials include a copy of the presentation, the PDH exam, and information about additional resources on each topic.
- < Presentation materials are available to confirmed registrants at the conclusion of each webinar.

Other Important Considerations

- < Participants interested in the award of PDH's



If you are not an ACPA member, you may be missing an opportunity to receive tremendous savings on ACPA webinars, as well as other programs.

Equally important, membership in ACPA gives you better control over some of the greatest opportunities and challenges that we all face together.

To find out how and why we can be stronger together, please call 847.966.2272 or email acpa@acpa.org.

Visit www.acpa.org/join



should check with local licensing organizations for specific requirements *prior to* registering and participating in this webinar.

- < The opinions, findings, and conclusions expressed by presenters and moderators during the ACPA webinar series, as well in associated information, is based on facts, tests, and authorities in the field of concrete pavements and related topics.
- < The materials are intended for use by professional personnel competent to evaluate the applicability and limitations of the information and who will accept responsibility of the application of the material contained herein.
- < ACPA and its partners and affiliates disclaim any liability for the application of the information presented in association with the webinars and cannot be held responsible for the accuracy of any of the sources, other than the word

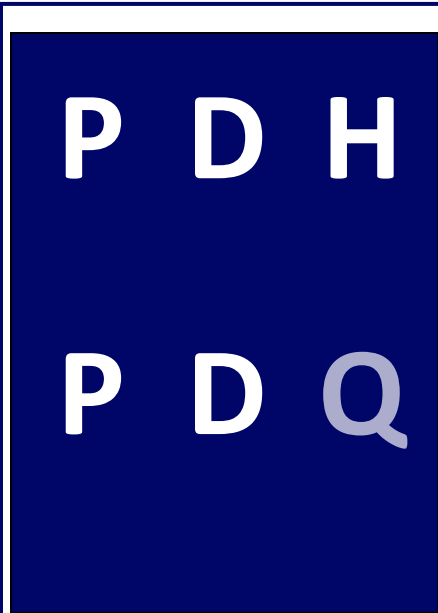
developed by the Association staff.

Training When and Where You Need It!

ACPA's "On Demand" training allows you to download and view some of our most popular web-based training modules.

On demand training allows you to see and hear valuable theoretical and practical information, as well as tips, techniques, and troubleshooting ideas from the industry's top professionals.

We currently have over more than a dozen timely topics, that you can download and watch (and listen) any time. Visit the ACPA bookstore at www.acpa.org for more information.



ACPA's webinar program allows you to earn Professional Development Hours (PDH's) pretty darned quick. For only a few hours of your time, you can earn PDH's without incurring travel time and expense. You can participate in webinars virtually anywhere you have a computer and an Internet connection.



Our programs also use voice over Internet protocol, so you don't even have to worry about a phone connection. With our complete program of webinars in 2010, you'll see how 18 PDH's can add up PDQ.

Visit www.acpa.org





Schedule of 2010 ACPA Webinars

Be sure to check www.acpa.org for changes & updates throughout the year.

Webinar	Topic
<p>1</p> <p>Feb. 11</p> 	<p>What You Should Know About Sustainability Before It's Too Late <i>Tom Van Dam, Ph.D., P.E., Applied Pavement Technology, Inc. (APTech)</i></p> <p>Sustainability describes our relationships with each other and the natural world and how these relationships will impact the future. Simply put, sustainability describes the balance that exists between economic vitality, environmental health, and societal good. By understanding this balance and striving to find sustainable solutions, a prosperous, healthy, and socially vibrant future can be achieved.</p> <p>This webinar will provide implementable strategies that take advantage of concrete's versatility to significantly improve the sustainability of pavements through improved economics, reduced environmental impact, and societal improvement. Both rural and urban applications will be discussed and specific examples used to illustrate how easily improvements can be implemented and quantified today. Some exciting opportunities that will emerge in the near future will also be discussed, showing how embracing sustainability can spark innovation both today and into the future.</p>
<p>2</p> <p>Feb. 18</p> 	<p>Discovering a New Approach to Designing & Using Tie Bars <i>Jag Mallela, Applied Research Associates, Inc.</i></p> <p>This webinar will describe a new approach to designing and using tie bars across longitudinal joints in concrete pavement slabs. The new approach, based on mechanistic-empirical design concepts, offers context-sensitive design solutions for a given project situation that can lead to greater reliability and longer lasting pavements.</p> <p>Based on a recent ACPA-managed research project completed by ARA, this webinar describes a mechanistic-empirical based tiebar design methodology that might replace the often counter-intuitive subgrade drag theory, the current norm and basis of the tiebar design in methods such as AASHTO 1993. The design method might more accurately prevent failures due to over- or under-tying wider pavement sections by accounting for variables such as the geographic location/ambient conditions during placement and the mixture heat of hydration rather than just focusing on friction between the slab and the base. The webinar also will provide straight talk to help dispel some common misconceptions that were fueled by the subgrade drag theory.</p>



Webinar	Topic
<p data-bbox="175 527 204 569">3</p> <p data-bbox="134 625 245 653">March 4</p> 	<p data-bbox="306 327 938 359">The How, Why, and When of Concrete Overlays</p> <p data-bbox="306 369 1086 401"><i>Mike Ayers, Ph.D., American Concrete Pavement Association</i></p> <p data-bbox="306 443 1495 579">Because of their competitive costs, exceptional durability, sustainability features, and overall performance, the demand for concrete overlays has increased dramatically. This webinar provides an overview of recommended pavement evaluation procedures, overlay type selection, design methods and construction techniques.</p> <p data-bbox="306 621 1490 716">The webinar will provide helpful information about selecting bonded or unbonded overlays as long-term solutions for increasing structural capacity and/or correcting surface deficiencies in existing asphalt, concrete, or composite roadways.</p> <p data-bbox="306 726 1495 831">With a sharp focus on how and when to use concrete overlays, this webinar builds on the basic ACPA training program, "Concrete Pavement Seminar Series, Seminar 3 –Rehabilitation, Restoration and Overlays," currently available as an ACPA Learning on Demand Module.</p>
<p data-bbox="175 1272 204 1314">4</p> <p data-bbox="134 1371 245 1398">March 18</p> 	<p data-bbox="306 1010 987 1041">How to Perform Utility Cuts in Concrete Pavements</p> <p data-bbox="306 1052 878 1083"><i>Dale Harrington, P.E., Snyder and Associates</i></p> <p data-bbox="306 1125 1495 1251">Dispelling the myth that concrete pavements are too difficult to repair, this webinar provides hands-on information about performing repairs and restoring concrete pavements around utilities. The webinar will provide details about ACPA’s recommended practices, from planning the project to re-opening the pavement to traffic.</p> <p data-bbox="306 1304 1490 1472">This educational program will provide techniques and tips for planning the utility cut location, size, and shape; making the necessary cut(s) in the concrete slab; removing the concrete; and excavating the subbase and/or subgrade. The webinar continues with tips and techniques for repairing/upgrading or installing the utility; backfilling and compacting or placing flowable backfill; and installing necessary embedded steel (dowel bars and tiebars).</p> <p data-bbox="306 1514 1422 1577">The webinar also provides special methods for placing, finishing, texturing and curing the new concrete surface course; jointing and joint sealing; and opening to traffic.</p> <p data-bbox="306 1629 1495 1734">As a special bonus, this program also will include discussions and examples of precast panels, emergency patching, utility cuts in heavy-duty concrete pavements, utility cuts in concrete overlays, and utility cuts in pervious concrete pavements.</p>



Webinar	Topic
<p>5</p> <p>March 25</p> <p>90 min</p>	<p>Protecting Your Equipment Investment: Pre-Season Checklist <i>Dennis Clausen (Gomaco) and Marco Cantu (Guntert & Zimmerman)</i></p> <p>Here’s a simple truth: Paving equipment and other machines are not earning money for your company if they’re broken or sidelined for repairs and maintenance. This webinar focuses on some often-overlooked procedures for protecting your investment in paving equipment and other machines used on the grade. This training session will provide specific procedures recommended by equipment manufacturers to follow at the beginning of the paving season.</p> <p>The discussion will highlight helpful tips for placer/spreaders, pavers, and texture/curing machines. Topics will include: auger/plow adjustments; track adjustments and wear limits; conveyor adjustments and wear limits; and vibrator maintenance. Also included will be a wide range of preventive maintenance steps, including changing filters; checking and adjusting wear pads, adjusting and checking paving forms and other critical pre-season checks.</p> <p>Although intended primarily for contractors, this webinar will provide information for anyone requiring a detailed knowledge of paving equipment operation and maintenance.</p>
<p>6</p> <p>April 15</p> <p>90 min</p>	<p>Rapid Repair of Concrete Pavements Using Precast Concrete Panels <i>Peter Smith, P.E., The Fort Miller Company</i></p> <p>Problem: Solve the seemingly impossible situation of repairing or replacing concrete pavements under heavy traffic, in difficult terrain, or in other challenging situations. In these conditions, placement can be challenging and other conditions can add to the complexity. For example, if there may not be sufficient time to allow proper cure time for high performance concrete. There is a solution, however. Fully cured precast concrete pavement slabs have been used successfully in many applications. To date, this emerging technology has been used for a total of 14 lane miles on more than 40 projects in overnight work windows as short as five hours.</p> <p>This webinar will provide an inside look at the development of current precast pavement systems, as well as the design, fabrication, and installation techniques used to date. The presentation will focus on jointed pavement systems for intermittent, continuous, area- and bridge-approach slab applications. The webinar also will include testing results and some comparative cost data that will show how this technology is being used to meet some significant challenges in pavement rehabilitation.</p>

Webinar	Topic
<p style="text-align: center; font-size: 2em; color: #4F81BD;">7</p> <p>May 13</p> <div style="background-color: #0056b3; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;"> 60 min </div>	<p>Tips for Hot Weather Concrete Paving <i>(Instructor to be determined)</i></p> <p>Hot weather concrete placement presents a number of challenges during paving. For example, the problems can range from subtle changes in material properties, or in extreme cases, the concrete may simply fail to meet specifications.</p> <p>Get the inside track on what you should know about materials issues and construction techniques in hot weather. The discussion about materials will describe the effects of temperature on the efficiency of admixtures, rate of stiffening (slump loss), potential short- and long-term effects on strength and durability and other important considerations. The construction portion of the presentation will discuss materials handling, placement issues, curing and saw-cutting, and other “need to know” tips.</p>
<p style="text-align: center; font-size: 2em; color: #4F81BD;">8</p> <p>May 27</p> <div style="background-color: #0056b3; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;"> 60 min </div>	<p>What You Absolutely, Positively Must Know About Permeable Subbases <i>Robert Rodden, EIT, American Concrete Pavement Association</i></p> <p>Although pavement subbases are widely considered to be one of the most critical design factors in constructing durable concrete pavements, there still are misperceptions about the type of subbase materials that best balance drainability with long-term durability. This webinar will examine a number of important considerations in subbase design and construction, as well as subbase materials selection, especially as these details pertain to permeable subbases.</p>
<p style="text-align: center; font-size: 2em; color: #4F81BD;">9</p> <p>June 3</p> <div style="background-color: #0056b3; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;"> 90 min </div>	<p>Beyond Theory: A State of the Practice Review of Concrete Pavement Recycling <i>Mark Snyder, Ph.D., P.E., ACPA-Pennsylvania Chapter</i></p> <p>Sustainable development is capturing headlines and lots of attention lately, but the concrete pavement industry has a long history of solutions that meet environmental, cost, and performance goals. Concrete pavement recycling conserves natural aggregate resources; reduces construction waste and landfill; and can reduce highway construction costs. One of the keys to successful recycling and reuse is an awareness of how recycled concrete aggregate (RCA) can be differ from virgin aggregate.</p> <p>This webinar will explore physical and mechanical properties of RCA, how those characteristics impact concrete pavements, and even some insights into production equipment and techniques. As part of this important and timely webinar, pavement engineers, contractors, and consultants also will learn about how and when to use RCA in various paving applications.</p>