



Concrete Matters

Official Newsletter of the American Concrete Pavement Association - Southwest Chapter

March 2011

Dear Christy,

Welcome to *Concrete Matters*, the monthly publication of the American Concrete Pavement Association -Southwest Chapter. Each month, we will bring you updates on news and events affecting the concrete paving industry in California and Nevada. *Concrete Matters* will keep you up-to-date on the legislative, promotional and technical activities of the ACPA-Southwest Association staff and membership.

You will receive *Concrete Matters* at the end of each month. Remember, ACPA-Southwest is your association working on behalf of the concrete paving industry in California and Nevada. Who else is promoting your workmanship or products?

Remember to support member companies of ACPA!
Interesting in joining our Association? Contact Craig Hennings.

ACPA-SW continues to be a leader in Just-In-Time Training



Your Association continues to offer and provide Just-In-Time Training for Caltrans projects, as well as local city and county projects that have Caltrans oversight. These four-hour training sessions cover concrete materials, concrete production, slip form pavement, fixed form paving, early age crack prevention using HIPERPAV, important facts of concrete pavement design, concrete

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ACPA Web Apps



ACPA recently announced the release of free on-line concrete pavement design applications, or "web apps". Visit the apps.acpa.org website for more information.

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pavement inspection, finishing, smoothness, curing, sawing, and sealing. Jointed Plain Concrete Pavement, Continuously Reinforced Concrete Pavement, rapid strength concrete, and precast concrete panels can be the subject of JITT.

Visit our website:
www.acpa-southwest.org

These classes are brought to your jobsite, right before the concrete operations are to start. Designed for either new workers or experienced professionals, everyone is sure to learn something new. Owners and contractors send paving foremans, paver operators, concrete production personnel, finishers, inspectors, QA/QC personnel, superintendents, engineers, and workers to JITT. The JITT can be tailored to your needs, for a large project or a small one. Many times a pre-construction conference is held the same day as the JITT, to make it as complete as possible. ACPA-SW can also facilitate the pre-construction conference.

Contact ACPA-SW for more information on JITT, or to schedule a training session. Please allow 2 to 3 week notice to schedule a date.

Your Association At Work



Caltrans Meetings

Craig Hennings has been meeting with Caltrans districts in the central valley to discuss the many concrete pavement projects currently being designed. Many of these projects will be "Ready to List" in the next couple of months.

Projects with Jointed Plain Concrete Pavement (JPCP) and Continuously Reinforced Concrete Pavement (CRCP) are being designed in record numbers throughout the valley. CRCP will be a long life pavement designed to reduce user costs and maintenance costs for the owner. Our focus is to make these pavements as economical to build as possible, without sacrificing durability or performance.

There are several ways we can improve the design with Caltrans, these include optimizing the design and location of end treatments, especially at the many structures that are present on these jobs. Sharing information on contractor production rates is useful for

estimating, as well as being educated on the construction process and the machinery used.

Meetings will be on going in the next two months to ensure these projects are optimizing construction time, guaranteeing the lowest costs and providing ease of construction.

Craig Hennings will be traveling throughout Nevada next week to select sites suitable for concrete pavement overlays and full depth concrete. Nevada DOT and the FHWA are leading this trip in order to evaluate the existing pavement conditions and traffic levels. Sections of Interstate 80 and intersections in high traffic urban areas are ideal candidates for thin concrete overlays and full depth concrete pavement.

Sustainable Pavements Workshop in Sacramento: Concrete Overlays

ACPA Southwest, along with the City of Elk Grove, County of Sacramento, and the California Nevada Cement Association is sponsoring a three hour workshop on the benefits of concrete overlays. The design, application, and construction of concrete overlays will be covered, with experts from local cities and industry on hand to answer your questions.

Cost: Free (but you must RSVP)

Date: Thursday April 14, 2011

Time: 9:00am to 12:00

Where: Sacramento County Offices
4100 Traffic Way, Sacramento

Sign up by emailing akoerner@elkgrovecity.org

International Grooving and Grinding Association releases new *Case Studies and FactSheet* for Airport Runways

SAFETY GROOVING FOR SAFER RUNWAYS



The International Grooving and Grinding Association (IGGA) has recently released two new case studies and a fact



>>>DIAMOND GRINDING AND GROOVING ASPHALT PAVEMENT

IT HAS BEEN SAID BEFORE that no matter what the weather, if you bring the right equipment, skid-free landings — every time. Even when wet and flooded, runways and taxiways must deliver the best possible overall ground handling and stopping characteristics that today's state-of-the-art technology can provide. This was precisely the case for the Fort Lauderdale-Hollywood International Airport (FLLHIA) in the spring of 2010. Located in Broward County, Fla., just three miles southeast of Fort Lauderdale, this international commercial airport has been known as the international gateway since the 1930s. With the asphalt paved Runway 9L-27R experiencing distress and lost friction, the Broward County Aviation Department decided to form a plan to rehabilitate their airport runway.

According to Casper Dodge, Airport Engineer for the FLLHIA, a loss of up to 40 percent of the transverse grooves triggered an investigation of the pavement condition, with concern centering on the pavement's loss of friction. The design

engineer recommended grinding and grooving as the solution to the problem.

The scope of work included patching areas of deteriorated pavement, diamond grinding approximately 110,000 square yards of asphalt runway deep enough to remove the existing grooves, re-grooving the runway in accordance with standard Federal Aviation Administration (FAA) specifications and then re-striping. During the process, high levels of production were required and maintained by the crews during short work windows, seven nights per week. An added challenge was the inconvenience caused by having to evacuate the runway intersection when planes were arriving.

Diamond grinding a major runway is a first for Broward County and possibly for the entire region. The technique should be examined by owners as a viable and cost effective method for rehabilitating asphalt paved runways and highways. While the total project cost was \$1.5 million, the

TEAM MEMBERS

- Broward County Aviation Department (Owner)
- Weekly Asphalt (Prime contractor)
- DMJM Aviation/ACCOM (Design engineer)
- Safety Grooving & Grinding, LP (Grinding and grooving)
- ISSH (Inspection services)

diamond grinding and grooving cost was only \$100,000 or \$5 per square yard. The cost savings were substantial when compared to an alternate repair method such as milling and filling.

Airport officials were quick to take note of the quality of the work and the professionalism of grinding and grooving crews. The project was completed in August, 2010, leaving the facility with a like new surface and the friction necessary to ensure the continued safety that modern day airports require.

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sheet highlighting the benefits of grinding airport runways. The Federal Aviation Association (FAA) has issued a statement recommending that all new runways are grooved to provide a safer

landing surface. The case studies illustrates examples where airport runways were diamond ground and grooved to meet the FAA standards.

For more information on airport runway surface treatments, please contact Craig Hennings, or visit www.igga.net.

Upcoming Events

April 14
Concrete Overlay Workshop 9:00 to 12:00 County of Sacramento offices

April 20
Caltrans Rock Products Meeting 8:00am to 4:00pm

Sincerely,

Craig Hennings
ACPA-Southwest

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