

INNOVATIVE PAVEMENT RESEARCH FOUNDATION RELEASES FIRST "RESEARCH REPORTS & FINDINGS CD"

The Innovative Pavement Research Foundation (IPRF) has released its first compilation of research reports, findings and other products. Available in compact disc (CD-ROM) format, the compilation includes research reports for two IPRF-sponsored projects as well as other information.

Urban Concrete Pavement Reconstruction and Traffic Management on I-10 near Pomona, CA

This 63-page research report documents the 55-hour reconstruction of 2.8 lane-km of interstate concrete pavement. Under a contract with the California Department of Transportation, Morrison-Knudsen Corporation of Highland, California removed and replaced one of four eastbound traffic lanes of I-10 near Pomona in a 55-hour weekend closure period. The report, prepared by the University of California at Berkeley, details the entire construction process and identifies construction activities that constrained the overall project productivity.

The replacement of 2.8 lane-km used fast-track concrete with 4-hour curing time and was completed successfully in 55 hours. Concrete delivery to the site was found to be the constraining factor. The overall progress of the project was found not to be controlled by the demolition activities or concrete cure time.

Summary Reports

In addition to the full research report, the CD contains two publications summarizing the UCB findings. An 8-page "Special Report" consolidates the key technical issues and findings, while a 4-page "Findings Report" presents an executive summary of the remarkable effort.

Ultra-thin Whitetopping Repair

Since its inception in 1991, ultra-thin whitetopping (UTW) has moved beyond the experimental stage and become a viable pavement rehabilitation alternative. As UTW pavements age and carry traffic, repair may eventually be required. UTW pavements may also require cuts for access to underground utilities.

To demonstrate UTW repair techniques, IPRF sponsored a team effort by Construction Technology Laboratories of Skokie, IL and Cherry Hill Construction Company, Inc. of Jessup, MD to repair UTW pavement at the FHWA's Turner-Fairbank Highway Research Facility in McLean, VA. Working cooperatively with FHWA, Cherry Hill Construction removed and

June 2001

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replaced UTW panels that had been cracked after repeated loadings with FHWA's accelerated pavement testing equipment. CTL and FHWA documented the process in a 26-page research report, complete with photographs.

Video, Slide Set, and Pamphlet

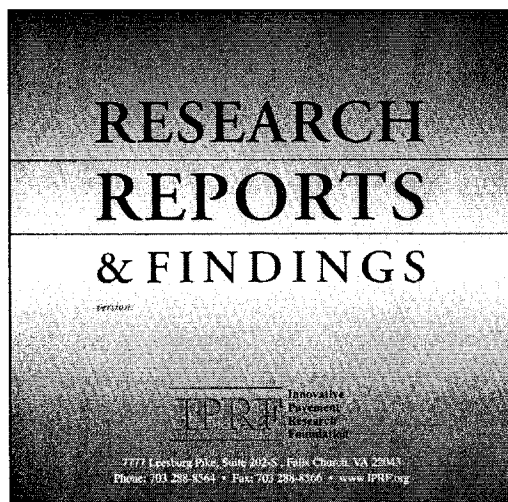
In addition to the 26-page research report, the IPRF CD contains an 8-minute video produced by FHWA depicting the UTW repair effort (.mpg format). A slide set (PowerPoint) is also included (41 slides with speaker notes). Based on the information from this study, ACPA has produced a 4-page, full-color pamphlet that described the key steps for UTW repair, also included on the CD.

Annotated Bibliography of Concrete Pavement Research

The CD also contains an annotated bibliography of concrete pavement research, with a focus on pavement design. As part of an IPRF project titled "Costs and Benefits of Various Components of Concrete Pavements," Applied Pavement Technology of Oakbrook, IL has summarized 267 recent concrete pavement research projects compiled into 15 subject areas. It will prove a valuable resource for pavement engineers and contractors seeking detailed information on specific concrete pavement technologies.

Concrete Pavement Technology Brochure

This 8-page color brochure describes the Concrete Pavement Technology Program, a partnership of the IPRF, industry, and FHWA. This partnership was made possible by the \$30 million (\$5 million per year) provided by the TEA-21 to "carry out research on improved methods of using concrete pavement in the construction, reconstruction and repair of federal-aid highways." These TEA-21 provisions were initiated, lobbied, and defended by ACPA. The brochure describes the IPRF/FHWA partnership, including the research underway to meet the four goals of the Concrete Pavement Technology Program: reduce delays, reduce costs, improve performance, and foster innovation.



To Obtain a Copy of the CD

Through an agreement with IPRF, ACPA will stock and distribute all IPRF products, including this compact disc. Copies can be obtained for \$11.00 each by contacting order processing at 1-800-868-6733.

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