THE PROFILER

Fall 2007

Research Division

From the editor

Welcome to the fourth edition of "**The Profiler**," a newsletter published semi-annually by the MDOT Research Division. Inside you will find happenings of the Division including updates on research projects, upcoming conferences, and from time to time spotlights on equipment. If you have any questions, feel free to contact Marta Charria at 601.359.7639 or mcharria@mdot.state.ms.us

Condition Survey

The 2007/2008 condition survey is set to begin in late November. Roadware Group, Inc. of Ontario, Canada, will be collecting and processing the condition and distress data. If Mother Nature co-operates, we hope to finish data collection around February 2008 and have the data in TMIS in April or May. For more information contact Cindy Drake at 601.359.7640 or cgdrake@mdot.state.ms.us

New Pavement Management Software

The RFP for new pavement management system software to replace TMIS is being drafted and should be out for bid in early 2008. Applied Pavement Technology, Inc., of Urbana, Illinois, is assisting MDOT with RFP process and vendor selection. MDOT intends to purchase off-the-shelf software with some customization for our data and processes. We look forward to providing better tools and information to aid the Department in preserving our biggest asset, our pavements. For more information contact Cindy Drake at 601.359.7640 or cgdrake@mdot.state.ms.us

Work Program 2008

On September 17, 2007 the MDOT Research Division met with the MDOT Research Advisory Committee to discuss and approve the budget for **FY 2008**. Eight new projects were added to the 80% / 20% program.
The entire FY 2008 is found in www.gomdot.com/research/reports.htm

State Study	Study Title	Start Date	Completion Date	Principal Investigator
202	Laboratory and Field Study of Chip and Scrub Seals to Develop Asphalt Maintenance Toolbox	10/01/07	09/30/09	Isaac Howard
203	In-House Support to State study No 202	10/01/07	09/30/09	Jeff Wages
204	Development of HMA Mix Selection Guide for MS	10/01/07	09/30/08	L. Allen Cooley, Jr.
205	Chemically Stabilized Soils	10/01/07	09/30/09	Randy Ahlrich
206	Use of Maturity Meters in Construction	10/01/07	09/30/08	Isaac Howard
207	Open Graded Friction Courses for HMA Pavements	10/01/07	09/30/10	Tom White
208	Effect of Coarse Aggregate Cleanliness and Moisture Content on Stripping Susceptibility & Long Term Performance of HMA	10/01/07	09/30/10	Isaac Howard L. Allen Cooley, Jr.
209	Support to Red Hills Fly Ash Experimental Feature	10/01/07	09/30/09	Bill Barstis

Pooled Projects Fund with 100% Federal funding for FY 2008

Study Title	Sponsor
Safety Analyst	FHWA
Transportation Library Connectivity	Wisconsin DOT
Evaluation of Non Intrusive Traffic Detection Technologies (Phase III)	Minnesota DOT
Construction of Crack-Free Bridge Decks (Phase III)	Kansas DOT
Improving Resilient Modulus Test Procedures for Unbound Materials	FHWA
Traffic Control Device (TDC) Consortium	FHWA

New Traffic analysis Software to implement MEPDG

The current MDOT flexible pavement design method utilizes 4 input values: AADT, % Trucks, ESALS for 10 or 20 year, and Flexible factor. The new Mechanistic-Empirical Pavement Design Guide (MEPDG) will replace the current method when it becomes an AASHTO-Ware product. The new design guide utilizes a significant amount of additional traffic information in the form of load spectra to support a given pavement design. Manual processing of this large volume of traffic data can be accomplished, but is labor intensive.

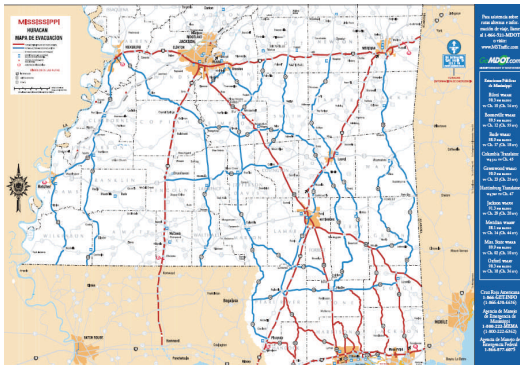
Applied Research Associates, Inc. (ARA) developed ATLAS, a prototype software that processes, checks, analyzes and prepares traffic data in the format required for input into the new design guide, to support calibration/validation of the MEPDG performance models at the national level. MDOT State Study No. 188, "Development of Mississippi DOT's Advanced Traffic Loading Analysis System (MS-ATLAS) to Support MEPDG Implementation," has recently been completed by ARA. In this study the prototype ATLAS software was customized for use by the MDOT Planning Division to provide the requisite traffic inputs to support calibration/validation the MEPDG performance models for conditions encountered in Mississippi. MS-ATLAS will subsequently be used to provide traffic data for routine pavement design using the MEPDG. Training in use of this new software for MDOT personnel was recently completed by ARA.

For more information contact William Barstis at 601.359.7649 or wbarstis@mdot.state.ms.us

Mississippi Evacuation Guide in Spanish

By now you might be wondering why the evacuation map is in the Research newsletter. Well, once in awhile I translate into Spanish MDOT publications to reach the Hispanic community. Outreach Division has printed 200,000 copies to be distributed upon request to Emergency Management offices in the coastal areas, as well to Mississippi Management Emergency Agency, MEMA.

For more information contact Marta Charria at 601.359.7639 or mcharria@mdot.state.ms.us



CALENDER OF EVENTS

2007 November 13-14	**NPHQ 2007 Annual Highway Quality Conference** San Diego, CA	National Partnership for Highway Quality. http://www.nphq.org/meetings_events.cfm
2008 January 13-17	**TRB 87th Annual Meeting** Washington, DC	Transportation Research Board http://www.trb.org/calendar/
2008 March 25-27	**SCAN 8th Annual Conference**. Savannah, GA	Southeast Concrete Alliance Network http://www.pavementse.com/scan2006.asp
2008 June 15-18	**SEPMDC Annual Conference** Little Rock, AK	South East Pavement Management Design Conference *More details to be posted in the next Spring Profiler news letter*

For more information, you can find us at ***MDOT@WORK*** intranet site or ***www.gomdot.com*** on the left click Business section, Research Division.

MDOT **The Profiler**

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