

LOUISIANA
TRANSPORTATION
ENGINEERING
CONFERENCE

_____ 2004 _____



OFFICIAL PROGRAM
FEBRUARY 15 - 18

2004 TRANSPORTATION ENGINEERING CONFERENCE
PROGRAM CONTENTS

CONFERENCE INFORMATION	1
HOTEL MAP	7
PROGRAM-AT-A-GLANCE	9
TECHNICAL SESSIONS	18
MONDAY SCHEDULE	19
TUESDAY SCHEDULE	28
WEDNESDAY SCHEDULE	60
CONFERENCE COMMITTEES	73
PDH DOCUMENTATION	76

BADGE/NAME TAG

Please remember to wear your 2004 Louisiana Transportation Engineering Conference badge/name tag at all times as this is your admission into all events.

CONFERENCE EVALUATION

A conference evaluation survey will be sent to you electronically after the conference. Please take a few minutes to respond to the survey so that we can gain your valuable input as we plan the next Louisiana Transportation Engineering Conference.

CONFERENCE HEADQUARTERS

The 2004 Louisiana Transportation Engineering Conference Headquarters is located in the Chairman's Library on the 1st Floor. The conference headquarters will be open Sunday from 11:00 a.m. - 7:00p.m. and 7:00 a.m. - 5:30 p.m. Monday - Wednesday.

CONFERENCE LUNCHEON

The conference luncheon will be held Wednesday from 11:45 a.m. - 1:15 p.m in Premier I and II. The luncheon will include the FHWA Pavement Smoothness Awards and featured speaker Mike Tidwell's address on "Bayou Farewell: The Rich Life and Tragic Decline of Louisiana's Glorious Coast."

CONFERENCE PRESENTATIONS

The conference presentations will be made available to all registered delegates after the conference.

DISPLAY ROOMS

The following exhibits will be on display Monday from 12:00 noon - 5:00 p.m. and Tuesday from 7:30 a.m. - 3:30 p.m.:

LA DOTD Materials and Testing Section

The Materials and Testing Section, in concert with the Department's project engineers and District Laboratories, works to ensure the quality of Louisiana's highways through inspection, sampling, and testing of construction materials. Programs include Laboratory Accreditation, Test Procedures Manual, Qualified Products List, Independent Assurance Testing, and many others. Come by and visit us in **Room 253**.

LA DOTD Information Technology Section

Staff from the Information Technology Section will demonstrate new technology available to DOTD personnel and its business partners in **Room 254**. Demonstrations will be available for new Intranet applications, the DOTD internet web site, new Lotus Notes functionality for calendaring and scheduling, GIS tools providing access to enterprise data, the Content Manager eClient, the DOTD Employee Self Service program, and many more. Representatives of the various programming areas will be on hand to answer your specific questions. Access to your Lotus Notes email will also be available.

LA DOTD Office of Planning and Programming

In **Room 353**, the Pavement and Bridge Management Units will be demonstrating new updated software including Visidata, Surveyor, dTIMS CT, and Pontis software. The Highway Safety Unit will be demonstrating a crash data analysis system used to identify crash patterns and trend which was developed in cooperation with ULL. Additionally, the Office of Planning and Programming will solicit customer input for the services provided.

LA DOTD Design Display

The LA DOTD headquarters design sections will feature interactive and poster displays featuring many of the current and future activities of the sections in **Room 354** throughout the conference. Personnel will be available to answer questions.

FHWA (Louisiana Division Office)

The FHWA exhibit in **Room 453** will highlight new technologies and innovations in the areas of Safety, Traffic Operations, Pavements and Materials, Bridges and Construction; including work zones, NCHRP 350, intersection safety design, human factors design, access management, Intelligent Transportation Systems (ITS) technologies, high performance concrete, Pavements for Life and life cycle costs analysis.

FHWA Resource Center

The products and services that the FHWA Resource Center personnel can provide to LA DOTD and any contractors associated with the building of roads will be featured in **Room 454**. The exhibit will also include many handouts, which will show FHWA's capabilities and market them to others.

FEATURED SPEAKERS

M. Dale Henry, Ph.D. - The general session will include an address by this renowned, humorous national speaker entitled "Ethics and the Transportation Professional." This presentation will satisfy the Louisiana State Board of Registration for Engineers and Land Surveyors ethics requirement.

Mike Tidwell - The conference luncheon will include a presentation by the author of the book "Bayou Farewell" on the diminishing wetlands of Louisiana and the long term impact.

HEALTH FAIR

A health fair will be held Wednesday from 8:00 a.m. - 11:45 a.m. in the Creole Queen Room and staffed by the following organizations: The American Heart Association, The American Lung Association, The Mary Bird Perkins Cancer Center, The American Cancer Society, The Office of Public Health Nutrition Services, The Williamson Eye Center, and The American Diabetes Association.

INDUSTRY EXHIBITS

Exhibits on transportation technologies/products will be displayed on Monday from 5:00 p.m. to 9:00 p.m. in the Premier Ballrooms and will include a reception in the vendor area on Monday evening.

MESSAGE BOARD

Provisions have been made for a Message Board to be placed in the conference registration area in Cypress I and II on Sunday afternoon and Monday morning and outside the Executive Board Room on Monday afternoon through Wednesday. Conference attendees may be contacted by calling the Baton Rouge Radisson Hotel and Conference Center of Baton Rouge at (225) 925-2244 and requesting the 2004 Louisiana Transportation Engineering Conference. Please check the message board periodically for your messages.

PROFESSIONAL DEVELOPMENT HOURS (PDHs) FOR ENGINEERS

The program provides abstract information and a scheduled of 45 technical sessions, 10 workshops for success and 7 “how-to” clinics, all of which qualify for professional development hours. The last pages of the program contain a register to help to keep track of the sessions that are attended and number of PDHs that are accumulated. There are a total of 16 Professional Development Hours (PDHs) available through this conference including the biennially required hour in professional ethics if the General Session is attended.

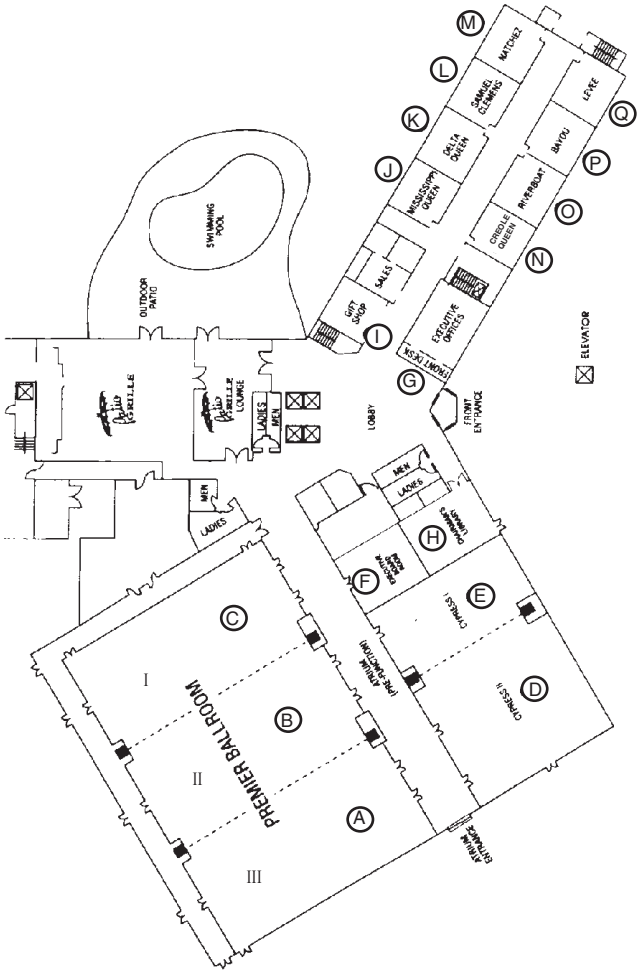
SPEAKER PREPARATION ROOM

Speaker preparation equipment is located in the Conference Headquarters (Chairman's Library, 1st Floor). This room contains audiovisual equipment for speakers to use in preparing for presentations. The room will be open Sunday from 11:00 a.m. - 7:00 p.m. and 7:00 a.m. - 5:30 p.m. Monday - Wednesday.

SPECIAL NEEDS

If you have special needs during the conference, visit the Conference Headquarters (Chairman's Library, 1st Floor) and every effort will be made to accommodate your request.

2004 TRANSPORTATION ENGINEERING CONFERENCE
HOTEL MAP



ATRIUM WING

- A PREMIER BALLROOM III**
- B PREMIER BALLROOM II**
- C PREMIER BALLROOM I**
- D CYPRESS II**
- E CYPRESS I**
- F EXECUTIVE BOARD ROOM**
- G FRONT DESK**
- H CHAIRMAN'S LIBRARY**
- I GIFT SHOP**

WEST WING

- J MISSISSIPPI QUEEN**
- K DELTA QUEEN**
- L SAMUEL CLEMENS**
- M NATCHEZ**
- N CREOLE QUEEN**
- O RIVERBOAT**
- P BAYOU**
- Q LEVEE**

SUNDAY, FEBRUARY 15, 2004

3:00 P.M. – 7:00 P.M.

Conference Registration/Tabletop
Displays/Hospitality (*Cypress I and II*)

MONDAY, FEBRUARY 16, 2004

7:00 A.M. – 8:30 A.M.

CONTINENTAL BREAKFAST
(*Cypress I and II*)

7:00 A.M. – 5:00 P.M.

CONFERENCE REGISTRATION/
TABLETOP DISPLAYS (*Cypress I and II*)
**(Note: After the morning break, registration
will be moved to the Executive Boardroom)**

8:30 A.M. – 12:00 NOON

GENERAL SESSION (*Premier I, II, and III*)

To include address and welcome by:

- Louisiana Executive and Legislative Officials
- LA DOTD Administrators
- National Transportation Officials
- FHWA Administrators
- Industry Representatives
- M. Dale Henry, Ph.D., “Ethics and the
Transportation Professional”

12:00 NOON – 1:15 P.M.

LUNCH (on your own)

12:00 NOON – 5:00 P.M.

DISPLAY ROOMS
(*Rooms 253, 254, 353, 354, 453 and 454*)

2004 TRANSPORTATION ENGINEERING CONFERENCE
PROGRAM-AT-A-GLANCE

1:15 P.M. – 3:00 P.M.

M. DALE HENRY, PH.D., “If You Want No Shoes and No Shirt, Then Give No Service”
(Embassy Suites)

TECHNICAL SESSION 1 - Megaprojects I
(Cypress I)

TECHNICAL SESSION 2 - Bridge Design I
(Cypress II)

TECHNICAL SESSION 3 - Improving Louisiana through the Transportation Enhancement Program
(Bayou/Levee)

“HOW-TO” CLINIC 1 - Confined Space Entry Pilot Program
(Mississippi Queen/Delta Queen)

WORKSHOP FOR SUCCESS 1 - Emotional Intelligence
(Samuel Clemens/Natchez)

WORKSHOP FOR SUCCESS 2 - Communication Skills
(Riverboat)

3:00 P.M. – 3:15 P.M.

BREAK

3:15 P.M. – 5:00 P.M.

M. DALE HENRY, PH.D., “Sailing The Winds of Change on The Seven C’s”
(Embassy Suites)

TECHNICAL SESSION 4 - Pavement Preservation
(Cypress I)

TECHNICAL SESSION 5 - Louisiana Timed Managers (LTM) and TIMED: A Partnership for Progress
(Cypress II)

TECHNICAL SESSION 6 - Superpave Update: It’s Still Asphalt
(Bayou/Levee)

TECHNICAL SESSION 7 - Ground, Granulated Blast Furnace Slag
(Mississippi Queen/Delta Queen)

WORKSHOP FOR SUCCESS 3 - Conflict Management
(Samuel Clemens/Natchez)

WORKSHOP FOR SUCCESS 4 - Leadership Skills
(Riverboat)

5:00 P.M. – TILL

EXHIBITOR DISPLAYS/REFRESHMENTS

(Premier I, II, and III)

TUESDAY, FEBRUARY 17, 2004

7:00 A.M. – 8:00 A.M.

CONTINENTAL BREAKFAST *(Atrium)*

7:00 A.M. – 5:00 P.M.

CONFERENCE REGISTRATION *(Executive Board Room)*

7:30 A.M. – 3:30 P.M.

DISPLAY ROOMS

(Rooms 253, 254, 353, 354, 453, 454)

8:00 A.M. – 9:45 A.M.

TECHNICAL SESSION 8 - Flexible Pavement Design and AASHTO 2002 Design *(Premier I)*

TECHNICAL SESSION 9 - Louisiana On The Move, DOTD Builds the Way...Environmentally *(Premier II)*

TECHNICAL SESSION 10 - Bridge Design II *(Premier III)*

TECHNICAL SESSION 11 - How Traffic Records Affect Tort Litigation *(Cypress I)*

TECHNICAL SESSION 12 - Work Zone Design *(Cypress II)*

TECHNICAL SESSION 13 - Hydraulic Modeling and Analysis *(Bayou/Levee)*

TECHNICAL SESSION 14 - Geotechnical Research *(Mississippi Queen/Delta Queen)*

“HOW-TO” CLINIC 2 - DOTD Workforce Development Policy & Tulane’s Master of Civil Engineering Program *(Samuel Clemens/Natchez)*

WORKSHOP FOR SUCCESS: 5 - Time Management *(Riverboat)*

2004 TRANSPORTATION ENGINEERING CONFERENCE
PROGRAM-AT-A-GLANCE

9:45 A.M. – 10:00 A.M.

BREAK

10:00 A.M. – 11:45 A.M.

TECHNICAL SESSION 15 - Geotechnical
Case Histories (*Premier I*)

TECHNICAL SESSION 16 - Project Delivery
Process (*Premier II*)

TECHNICAL SESSION 17 - Bridge
Fabrication/Construction (*Premier III*)

TECHNICAL SESSION 18 - Surveying
Advances and Procedures (*Cypress I*)

TECHNICAL SESSION 19 - Continuously
Reinforced Concrete Pavements/Whitetopping
(*Cypress II*)

TECHNICAL SESSION 20 - DOTD
Environmental Compliance Programs
(*Bayou/Levee*)

“HOW-TO” CLINIC 3 - DOTD’s Career and
Employment Opportunities for Civil Engineers,
Graduates, and Students
(*Mississippi Queen/Delta Queen*)

“HOW-TO” CLINIC 4 - DOTD Permit and
Review Requirements
(*Samuel Clemens/Natchez*)

WORKSHOP FOR SUCCESS 6 -
Communication Skills (*Riverboat*)

11:45 A.M. – 1:00 P.M.

LUNCH (on your own)

1:00 P.M. – 2:45 P.M.

TECHNICAL SESSION 21 - Life Cycle Cost
Analysis (*Premier I*)

TECHNICAL SESSION 22 - Rubbilization and
Overlay (*Premier II*)

TECHNICAL SESSION 23 - Bridge Research
(*Premier III*)

TECHNICAL SESSION 24 - Information
Technology Enabling DOTD (*Cypress I*)

TECHNICAL SESSION 25 - PPMS and AARS
(*Cypress II*)

TECHNICAL SESSION 26 - Stabilized Bases
(*Bayou/Levee*)

TECHNICAL SESSION 27 - Megaprojects II
(*Mississippi Queen/Delta Queen*)

“HOW-TO” CLINIC 5 - Superelevation Design
(*Samuel Clemens/Natchez*)

WORKSHOP FOR SUCCESS 7 - Conflict
Management (*Riverboat*)

2:45 P.M. – 3:00 P.M.

BREAK

2004 TRANSPORTATION ENGINEERING CONFERENCE
PROGRAM-AT-A-GLANCE

3:00 P.M. – 4:45 P.M.

TECHNICAL SESSION 28 - Highway Safety
(Premier I)

TECHNICAL SESSION 29 - Perspective on
Transportation Systems Management and
Operations *(Premier II)*

TECHNICAL SESSION 30 - Accelerated
Loading of Pavements *(Premier III)*

TECHNICAL SESSION 31 - New Ideas for
Work Zone Traffic Management *(Cypress I)*

TECHNICAL SESSION 32 - Deep
Foundations *(Cypress II)*

TECHNICAL SESSION 33 - Innovative Design
(Bayou/Levee)

TECHNICAL SESSION 34 - Special
Applications for Concrete
(Mississippi Queen/Delta Queen)

TECHNICAL SESSION 35 - Planning I
(Samuel Clemens/Natchez)

WORKSHOP FOR SUCCESS 8 - Leadership
Skills *(Riverboat)*

WEDNESDAY, FEBRUARY 18, 2004

7:00 A.M. – 8:00 A.M.

CONTINENTAL BREAKFAST *(Atrium)*

7:00 A.M. – 11:00 A.M.

CONFERENCE REGISTRATION
(Executive Board Room)

8:00 A.M. – 11:45 A.M.

HEALTH FAIR *(Creole Queen)*

8:00 A.M. – 9:45 A.M.

TECHNICAL SESSION 36 - Improvements to Pavement Foundations (*Premier III*)

TECHNICAL SESSION 37 - Louisiana Statewide Transportation Plan (*Cypress I*)

TECHNICAL SESSION 38 - Delivery of Technology Through Intelligent Transportation Systems (*Cypress II*)

TECHNICAL SESSION 39 - Pavement Evaluation (*Bayou Levee*)

TECHNICAL SESSION 40 - Access Management (*Mississippi Queen/Delta Queen*)

“HOW-TO” CLINIC 6 - Phase II NPDES Requirements for Construction Projects (*Samuel Clemens/Natchez*)

WORKSHOP FOR SUCCESS 9 - Time Management (*Riverboat*)

9:45 A.M. – 10:00 A.M.

BREAK

10:00 A.M. – 11:45 A.M.

TECHNICAL SESSION 41 - Porous Friction Course (*Premier III*)

TECHNICAL SESSION 42 - Geotechnical Applications (*Cypress I*)

TECHNICAL SESSION 43 - Hurricane Planning and Evacuation (*Cypress II*)

TECHNICAL SESSION 44 - Planning II (*Bayou/Levee*)

TECHNICAL SESSION 45 - District Construction/Maintenance Innovations (*Mississippi Queen/Delta Queen*)

WORKSHOP FOR SUCCESS 10 - Emotional Intelligence (*Samuel Clemens/Natchez*)

“HOW-TO” CLINIC 7 - Highway Signs and Barricade Details (*Riverboat*)

11:45 A.M. – 1:15 P.M.

CONFERENCE LUNCHEON (*Premier I and II*)

- FHWA Awards
- Mike Tidwell, “Bayou Farewell: The Rich Life and Tragic Decline of Louisiana’s Glorious Coast”

TECHNICAL SESSIONS

The information (beginning on page 19) contains the technical session titles, the titles of the presentations, the names of the presenters, and a short abstract of the presentations. A copy of the available presentations will be made available in CD format after the conference.

**2004
TRANSPORTATION ENGINEERING
CONFERENCE
RADISSON HOTEL
BATON ROUGE, LA**

**MONDAY, FEBRUARY 16, 2004
1:15 P.M. TO 3:00 P.M.**

**“IF YOU WANT NO SHOES AND NO SHIRT,
THEN GIVE NO SERVICE”
DR. M. DALE HENRY
EMBASSY SUITES**

**SESSION 1- MEGAPROJECTS I
CYPRESS I
MODERATOR: MICHAEL AGHAYAN**

***Richard L. Savoie*
“I-49 North”**

The extension of I-49 North in Caddo parish has been underway since 1993. It is currently in plan development for the letting (FY 04-05) of two construction projects with a total length of 6.5 miles at the Arkansas state line. At a cost of \$365 million for the entire 36-mile route, the project completion is far from being fully funded with only \$40 million currently available.

***Michael Hollier*
“Lafayette I-49 Connector”**

This presentation will describe the plan, design, and construction of a major elevated freeway in the urban context.

Vincent Russo, Jr.

“Status of I-69 in Louisiana”

The I-69 Corridor will someday connect the Lower Rio Grande Valley with Canada to improve international and interstate movement of freight and people. The current routing of I-69 in Louisiana will provide another interstate class roadway through northwest Louisiana. This presentation will provide the attendees with the latest status of the planning and environmental phases of this project.

Bob Schmidt

“I-10 Calcasieu River High Level Bridge and Local Access”

The existing high level I-10 Bridge over the Calcasieu River in Lake Charles is over 50 years old, pre-dates construction of the interstate system, and is functionally and geometrically obsolete. Additionally, the growing community of Westlake’s access to the bridge and interstate is restricted by the busy Union Pacific railroad mainline. These and other factors combine to create a complex design challenge to reconstruct the bridge and integrate the adjacent Sampson Street interchange and other local features into the project in a phased approach as funding become available.

SESSION 2 - BRIDGE DESIGN I
CYPRESS II

MODERATOR: HOSSEIN GHARA

Bill Conway and Bruce E. Peterson

“The Widening of the Huey P. Long Bridge”

The existing main span of the Huey P. Long Bridge is a cantilever truss providing a combined rail and highway crossing over the Mississippi River near

New Orleans. The project background, design criteria, and special design challenges to widen the two existing 18-foot wide roadways to 43 feet while the bridge remains open to traffic will be presented.

David Miller

“LA 1 Bridge, Port Fourchon to Golden Meadow”

This presentation will focus on the “Fast Tracking” of a 17-mile bridge while maintaining DOTD’s commitments to sensitive environmental issues.

Bobby Overall and Paul Fossier

“Design & Construction Issues, Vertical Lift Bridge at Clotilda”

This presentation will focus on the design and construction aspects of the bridge replacement project to construct a new vertical lift movable bridge at Clotilda between LA 1 and LA 308. The unique aspects of the concrete tower and structural steel for the main lift span will be discussed.

SESSION 3 - IMPROVING LOUISIANA
THROUGH THE TRANSPORTATION
ENHANCEMENT PROGRAM
BAYOU/LEVEE
MODERATOR: VIRGIL PAGE

Ann Wills, Valerie Horton, and John Gagnard

“Overview of Enhancement Programs”

Speakers will discuss the purpose of the Transportation Enhancement Program, as well as outline the procedures involved. The application process and potential problems encountered by project sponsors will be discussed along with DOTD’s role in coordinating project construction.

Wayne L. Coco

“1911 Texas & Pacific Passenger Depot Adaptive Rehabilitation, Bunkie, Louisiana”

The adaptive rehabilitation of the 1911 Texas and Pacific Railroad Passenger Depot in Bunkie is an excellent example of the adaptive reuse of abandoned historic buildings. It is also an important example of how this building was put to use by the City of Bunkie to promote tourism and the unique history of the area.

“HOW-TO” CLINIC 1 - CONFINED SPACE
ENTRY PILOT PROGRAM
MISSISSIPPI QUEEN/DELTA QUEEN
MODERATOR: TODD KIDDER

A brief overview of the Confined Space entry Program conducted in the DOTD Lafayette District.

WORKSHOP FOR SUCCESS 1 - EMOTIONAL
INTELLIGENCE
SAMUEL CLEMENS/NATCHEZ

Emotional intelligence is the set of skills that enables us to make our way in a complex world—the personal, social, and survival aspects of overall intelligence or the common sense and sensitivity that is essential to effective daily functioning. This session will provide an overview of this increasingly popular organizational topic.

WORKSHOP FOR SUCCESS 2 -
COMMUNICATION SKILLS
RIVERBOAT

Effective communication skills are essential to maximizing productivity. This session will focus on the significance of nonverbal communication, applying effective listening skills, and how to plan and conduct a performance feedback interview that will improve job performance and/or work relationships.

MONDAY, FEBRUARY 16, 2004

3:15 P.M. - 5:00 P.M.

“SAILING THE WINDS OF CHANGE ON THE
SEVEN C’S”

DR. M. DALE HENRY

EMBASSY SUITES

SESSION 4 – PAVEMENT PRESERVATION

CYPRESS I

MODERATOR: WILLIAM DRAKE

Larry Galehouse

“Michigan's Mix of Fixes”

Implementing timely preventive maintenance actions provides the ability to effectively manage the highway network and satisfy the user demand for safety, comfort, and convenience while using existing resources. Since 1992, the Michigan Department of Transportation has placed a high priority on pavement preventive maintenance, and the program has become an integral part of the investment decision making process. This paper discusses Michigan’s experience with pavement preventive maintenance and the resulting benefits.

Dean M. Testa

“Integrating Preventative Maintenance and Pavement Management in Kansas”

In the early 1980s Kansas developed a Pavement Management System to measure pavement conditions and apply these conditions to various funding scenarios. Additionally, KDOT’s Maintenance Section secured dedicated funds for pavement treatments. This presentation describes how the two actions complemented each other and the results KDOT achieved.

Steve Mueller

“Pavement Preservation: The National Perspective”

This presentation will provide an overview of the nationwide trends in pavement preservation, highlighting FHWA’s efforts to protect our nation’s \$1.75 trillion investment in roadway infrastructure.

SESSION 5 - LOUISIANA TIMED MANAGERS
(LTM) AND THE TIMED PROGRAM: A
PARTNERSHIP FOR PROGRESS
CYPRESS II
MODERATOR: RON HARTJE

Ron Hartje

“TIMED is Now!”

DOTD accelerated the Transportation Infrastructure Model for Economic Development (TIMED) Program in 2002 with a \$275 million bond sale and the addition of program managers—Louisiana TIMED Managers. The TIMED Program schedule has been accelerated by 20 years. Various factors contributing to the success of the accelerated TIMED Program will be discussed.

Bob Boagni

“Creating a Partnership”

DOTD and LTM recognize the importance of effective partnering and teamwork on a program as complex as the TIMED Program. The key points to keeping the lines of communication open and developing a partnership with LTM will be discussed.

Frank Smith

“Where is the MONEY?”

Two of the top priorities of LTM were to initiate the funding process needed to meet the accelerated schedule of TIMED and to establish a sound financial management plan to handle changes. Discussion

will cover the transition from a pay-as-you-go program to a cash management program, financial feasibility, and the anticipated future bond sales.

Phil Meyers

“Delivering the Plans”

Project segment administration at LTM involves environmental activities, design oversight, right-of-way acquisition, and utility relocation. An overview of each of these departments and how they work together to deliver final plans ready for letting will be provided.

Gary Doyle

“Paving Ahead”

LTM’s construction administration department focuses on streamlining the administration process and pursuing innovative alternatives to save time and money while producing a quality product. This presentation will highlight this process and the efforts LTM has made to ensure continuous coordination between engineers, inspectors, and contractors.

SESSION 6 – SUPERPAVE UPDATE: “IT’S STILL ASPHALT”

BAYOU/LEVEE

MODERATOR: CHRIS ABADIE

John A. D’Angelo

“National Review of Binder and Mix Specifications”

Superpave has been in use for 10 years. During this time, many adjustments and refinements have been made to the system. Most of these have led to improved performance and constructability.

However, some problems still exist with recommended practices, construction practices, and state specifications.

Luanna Cambas

“Louisiana Asphalt”

LADOTD implemented Superpave specifications in July 2003. This talk will include a brief review of our specs, a summary of Superpave data and test results, a discussion of how Superpave is performing so far, and current issues as well as thoughts on our future challenges in asphalt.

David Newcomb

“Contractors' Perspective (w/Comments on PWL)”

Superpave has brought about changes in the production and placement of hot mix asphalt. Better materials selection, engineering, and construction have made for an improved infrastructure. Refinements to the Superpave system have removed some redundant and onerous requirements. But nagging questions about performance and specifications indicate there is still room for improvement in the process.

SESSION 7 - GROUND, GRANULATED BLAST
FURNACE SLAG

MISSISSIPPI QUEEN/DELTA QUEEN

MODERATOR: JOHN EGGERS

Jan R. Prusinski

*“Durable, Sustainable Concrete Transportation
Structures with Slag Cement”*

Discussion will focus on specific projects from across the country in which slag cement was used to create improved concrete structures. Example applications will include high performance concrete in bridge decks, sulfate and ASR resistant pavements and structures, mass concrete in foundations, and soil stabilization. Additionally, the environmental benefits of slag cement will be reviewed.

Darryl F. Elliot

“Constructing Concrete Projects with Slag Cement”

Explore the qualities and characteristics of PCC made with slag cement. Discussion will address material properties, mix design considerations, and effects on plastic and hardened properties of concrete. Examples will include projects for DOTD as well as other states, FAA, and USACE.

Gavin Gautreau and Dr. Amitava Roy

“Reactive Aggregate in Base Course: Implementation of Laboratory Results”

The recent laboratory results from the project “Stabilization Techniques for Reactive Aggregate in Soil-Cement Base Course” suggest that when blended cements containing various amounts of granulated blast furnace slag (BFS) were used, expansion of the stabilized sulfate-containing soils was reduced. To implement these results in the field, four test sections will be built with different cementitious mixtures. Cores will be collected from these test sections after cementitious stabilization for assessment of the mixes, and the long-term performance of the mixes will be studied to assess the changes in mineralogy and the effectiveness of the mixes.

WORKSHOP FOR SUCCESS 3 -
CONFLICT MANAGEMENT
SAMUEL CLEMENS/NATCHEZ

This session focuses on the dynamics of interpersonal conflict and the factors that naturally lead to conflict escalation. Methods of defusing conflict will be examined, with emphasis being placed on reaching compromises through collaboration. This session will enable the employee to better cope with potential individual disagreements that occur in the workplace through a comprehensive system of techniques and practical situational learning.

WORKSHOP FOR SUCCESS 4 - LEADERSHIP
SKILLS
RIVERBOAT

This session will provide a background and foundation for participants to both reflect on their current leadership skills and begin building and adding to those skills. The session will focus on situational leadership, which will enable the participant to better manage through comparing work situations and tasks with individual developmental levels.

TUESDAY, FEBRUARY 17, 2004
8:00 A.M. - 9:45 A.M.

SESSION 8 - FLEXIBLE PAVEMENT DESIGN
AND AASHTO 2002 DESIGN

PREMIER 1

MODERATOR: LUANNA CAMBAS

Kevin D. Hall

“The AASHTO 2002 Guide: Merging Structural Design with Mix Design”

Historically, there has been a disconnect between the structural design of flexible pavements and the corresponding hot-mix asphalt (HMA) mixture design. The proposed AASHTO 2002 Guide seeks to close that gap. Included in the presentation will be a brief overview regarding HMA strength/stiffness measurements required by the Guide and the relationship between HMA properties and predicted flexible pavement performance.

Gary Fitts

“Laboratory Evaluation HMA using Beam Fatigue Test”

The Asphalt Pavement Alliance (APA) has recently funded a laboratory study to evaluate the relationship between fatigue damage and strain in HMA using AASHTO TP-8 (“Beam Fatigue Test”). The presentation will describe the background, status of the testing, preliminary conclusions, and direction of future work.

Dr. Louay Mohammad

“Investigation of the Variability of Air Voids and Stiffness of Plant Produced Asphalt Mixtures”

This paper presents the results of a laboratory and field evaluation of the variability of physical and mechanistic properties of plant produced asphalt mixtures. Three asphalt mixtures from two overlay rehabilitation projects were selected. Comparison analyses were conducted on density measurements between two laboratory (AASHTO T-166 and ASTM D6752-02, or CoreLok) and one in-situ test (PQI) methods. In addition, two laboratory mechanistic tests: indirect tensile (IDT) strength and frequency sweep at constant height (FSCH) tests, and two field non-destructive tests using falling weight deflectometer (FWD) and light weight falling weight deflectometer (LWD) were performed to characterize the variability of the plant produced mixtures evaluated in this study.

SESSION 9 - LOUISIANA'S ON THE MOVE,
DOTD BUILDS THE
WAY...ENVIRONMENTALLY

PREMIER II

MODERATOR: VINCENT J. RUSSO, JR.

Christopher Gesing

***“Stage 1 - Planning/Environmental Manual of
Standard Practice ”***

The paper presents a brief history of the proactive interagency partnering efforts leading to the manual's development, factors critical to the success of a streamlined Stage 1 process, an overview of the manual's contents, implementation and training goals and objectives, and a summary of other recommendations identified as part of the manual's development.

Noel A. Ardoin

***“Highway Traffic Noise: DOTD Programs and
Policies”***

DOTD has successfully developed two of the largest noise barrier projects in its history. The decision making process to develop these projects was fraught with questions from the public and within the agency regarding the prudence of these projects and how we make these decisions in a consistent manner throughout the state. Insight will be offered on the projects and how the DOTD Highway Traffic Noise Policy has been modified through the years.

Michele Deshotels and Jan Grenfell

“Environmental Stewardship: DOTD Success Stories”

DOTD is a Context Sensitive Solution State that has recently completed several projects that have received national recognition, including a national award for

partnership. DOTD is successfully addressing complex, sensitive environmental issues including “critter crossings”, protection of roadside prairie habitat, and wetland mitigation. In addition, we have recently reached the conclusion of successful negotiations with the Caddo Nation and have a signed Programmatic Agreement with the Nation and FHWA.

SESSION 10 - BRIDGE DESIGN II
PREMIER III
MODERATOR: PAUL FOSSIER

Steven T. Hague

“Design Considerations for the New US 82 Cable-Stayed Bridge over the Mississippi River”

This presentation will look at the various aspects involved with the design of a new Mississippi River crossing. Using the US 82 bridge as a case study, various aspects from establishing the navigation requirements to evaluating wind effects to designing the dredged caisson foundations will be documented. This paper will look to the multi-disciplinary approach to major bridge projects from conceptual design through construction plans.

Tony Ducote

“Major Bridges of Louisiana - Past, Present, and Future Activities”

The presentation will focus on a 40-year snapshot of Louisiana’s major bridge structures, including those built and opened to traffic within the last 20 years, those in final design or under construction today, and those in the early planning and environmental stages of development. Information will be presented on certain features such as location, funding, designer, contractor, type of structure, and other unique characteristics of the bridge and/or design.

Hossein Ghara

“Bridge and Tunnel Security against Terrorism”

The Blue Ribbon Panel on Bridge and Tunnel Security was formed from renowned engineering experts who generously donated their time to guide government leaders, infrastructure owners, and the engineering community on how to improve the security of bridges and tunnels. Infrastructure owners are faced with new and largely unexpected challenges to provide physical security against terrorists' attacks on their critical structures. At their recommendation, the AASHTO subcommittee on Bridge & Structures has created a technical committee under T-1 to formulate provisions that would help bridge designers meet these challenges.

SESSION 11 - HOW TRAFFIC RECORDS
AFFECT TORT LITIGATION

CYPRESS I

MODERATOR: LARRY DURANT

Sonia Mallet

“Educating Your Attorney”

Is there a direct correlation between the outcome of litigation and an attorney's knowledge of engineering principles? This presentation will focus on allowing attorneys to tap into your areas of expertise. The better educated the attorney is in the area of engineering principles, the better equipped he/she will be in handling the witnesses and evidence during pre-trial preparation and the trial proceedings. This presentation will also help prepare you to be a better witness and discuss the potential pitfalls you may encounter when testifying under cross examination.

Michael D. Zelden

“How is Data Utilized by Litigators in Tort Suits Against Governmental Agencies?”

This discussion will focus on how records are used and misused by both plaintiffs’ lawyers and defense counsel, consequences if records are admitted into evidence, and why records should be excluded.

James R. Dawson

“23 U.S.C. 409: The Protection of Our Data”

Highway agencies are required to collect highway safety data and use that data to evaluate and improve highway safety. 23 U.S.C. 409 protects the agencies from having that data used against them in a suit for damages. But what data is protected and how do agencies establish its protection?

SESSION 12 - WORK ZONE DESIGN
CYPRESS II
MODERATOR: JANICE WILLIAMS

Erik T. Smith

“Design Issues in Work Zone Traffic Control”

This presentation outlines issues designers face when developing traffic control plans. Issues include detailing construction phasing, treating edge drop-off’s, and providing adequate construction clearance, along with other challenges.

Charles Adams

“The New Traffic Control Detail Sheets”

This discussion will focus on the Department’s new Traffic Control (TC) Detail sheets that have replaced HS-01.

Nicholas Artimovich

“Crashworthy Work Zone Traffic Control Devices”

Traffic control devices used in work zones are frequently vulnerable to being hit. Unique criteria were developed for evaluating the performance tests of these devices. This presentation provides a brief overview of the NCHRP Report 350 test and evaluation criteria, with crash test video footage of common devices.

SESSION 13 - HYDRAULIC MODELING AND
ANALYSIS

BAYOU/LEVEE

MODERATOR: JACK MANNO

Dr. Morris Sade

“Challenge of Selecting Hydrologic or Hydraulic Model for Louisiana Flat Terrain”

Discussion will include elements of low gradient flow on Louisiana flat terrain as well as the problems associated with the application of the new generation of hydrologic models in the flat terrain and/or in the coastal hydrologic setting of Louisiana. The presentation will cover WSPRO, HEC-RAS, HEC-1 and HEC-HMS.

Dr. Ehab Meselhe

“Development of Discharge-Water Level Relationship for Low-Slope Tidal Streams Using Non-Parametric Regression Analysis”

Estimation of flow discharge in streams has traditionally been obtained using stage-discharge rating curves. Such relations cannot be established in low gradient streams subjected to tidal effects. This study investigates this issue using neural networks and non-parametric regression analysis. The estimated discharge will be validated using actual discharge measurements.

Jorge Pagan

“Bridge Scour Analysis”

This presentation will focus on an overview of the National Bridge Scour Evaluation Program to date as well as an update of the program, including its current status and future direction.

SESSION 14 - GEOTECHNICAL RESEARCH
MISSISSIPPI QUEEN/DELTA QUEEN
MODERATOR: GAVIN GAUTREAU

Dr. Murad Abu-Farsakh

“In-situ Test Technology for Construction of Base Courses and Embankments”

There is great concern regarding changing the QC/QA procedures from density-based criteria to stiffness-based criteria. The use of Geogauge, LFWD and DCP in characterizing materials can be significant in the QC/QA during the construction of highway projects. A series of laboratory and field tests were conducted to evaluate the potential use of these devices to reliably measure the stiffness modulus of pavement layers and embankments for application in the QC/QA procedures. The stiffness modulus obtained from the Geogauge, LFWD and DCP was correlated with moduli obtained from standard tests (Plate Load Test and Falling Weight Deflectometer). Because good correlation was obtained in this study, these devices can be a promising tool in the stiffness-performance QC/QA procedures.

Dr. Zhongjie “Doc” Zhang

“Evaluation of Trench Backfill at Highway Cross - Drain Pipes”

This presentation deals with the results from field and full-scale laboratory tests on different trench backfill materials in the construction of highway

cross-drains. The purpose was to study the cause of “dip” problem in asphalt pavement over trenches. The field test data indicate that pavements that have problems at cross-drain trenches have weaker backfill than the adjacent subgrade soils. It was also found that sand backfills constructed under current specifications are generally weaker than the native subgrade soils in Louisiana.

Dr. Reda Bakeer and Dr. Norma J. Mattei
“Evaluating the Performance of DOTD Integral
Abutment Bridges Built in LA”

An integral abutment bridge may be defined as construction of a bridge without deck joints at the abutments. This type of construction eliminates costly joints and sealers and the maintenance associated with their use and produces better rideability due to elimination of joints. However, the continuity achieved by integral construction may introduce secondary stresses into the superstructure that could affect long-term performance and rideability. Just how well are DOTD’s integral bridges performing? The performance of each of the six integral abutment bridges was assessed and compared to that of several representative conventional bridges. A Parametric finite element analysis was also performed. Finally, guidelines for the construction of future integral abutment bridges were developed.

“HOW-TO” CLINIC 2 – DOTD WORKFORCE
DEVELOPMENT POLICY AND TULANE’S
MASTER OF CIVIL ENGINEERING PROGRAM
SAMUEL CLEMENS/NATCHEZ
MODERATOR: KIRT CLEMENT

This clinic will highlight the DOTD Workforce Development Policy and the Tulane Master of Civil Engineering Professional Program.

WORKSHOP FOR SUCCESS 5 -
TIME MANAGEMENT
RIVERBOAT

This session emphasizes the knowledge and skills necessary to proactively control events on a daily, weekly, monthly, and yearly basis. Participants will learn to manage occurring scheduled events while successfully adapting to unscheduled events. The techniques presented emphasize goal setting and delegation commitments between supervisors and those they directly supervise.

TUESDAY, FEBRUARY 17, 2004
10:00 A.M. - 11:45 A.M.

SESSION 15 - GEOTECHNICAL CASE
HISTORIES
PREMIER I
MODERATOR: STEVE MEUNIER

Tim Nickel

“Typical Sheet Pile Projects at LADOTD”

This presentation will focus on common considerations taken in the evaluation of sheet pile design.

Dr. Hani Titi

“Assessment of Pavement Failure on LA 15 - Sicily Island”

This research was conducted to investigate local failure zones within new flexible pavement constructed on highway LA-15 in Sicily Island, LA. The pavement construction expanded the existing two-lane highway into a four-lane highway separated by a median. The flexible pavement consisted of asphaltic concrete layers, lime treated sand base course, and

sand embankment. This presentation discusses the results of field-testing programs using the Falling Weight Deflectometer (FWD) and Dynaflect conducted to evaluate the existing conditions failed and intact pavement zones. The objectives of this research were to identify the cause of the pavement failure, propose a variety of solutions, and select the most effective one in terms of public safety, cost, and performance.

Kim Martindale and Victor R. Donald

“Case Study of Embankment Failures and Repairs on LA 66 (Angola Prison Highway)”

The Angola Highway alignment has experienced several slope failures over recent years, resulting in expensive repairs. This presentation will describe a remedial effort to minimize repair costs by addressing groundwater flow modifications and internal slope rehabilitation.

SESSION 16 - PROJECT DELIVERY PROCESS
PREMIER II

MODERATOR: ROBERT E. BOAGNI

Robert E. Boagni, Eric Kalivoda, Vince Russo, Mike Schiro, Steve Cumbaa, Rick Holm, and John Basilica
“Project Development Process (Stages and Phases)”

LADOTD’s project delivery process includes major components of feasibility, planning, programming, finance, design/development, letting and construction. The stages of this process are Stage 0 (feasibility), Stage 1 (planning & environmental), Stage 2 (wait for funds), Stage 3 (design), Stage 4 (letting), Stage 5 (construction), and Stage 6 (operation).

SESSION 17 - BRIDGE
FABRICATION/CONSTRUCTION
PREMIER III
MODERATOR: TONY DUCOTE

Don Theobald

“Prestressed Concrete Fabrication”

Since its introduction in the United States in 1949, precast, prestressed concrete has rapidly become the preferred composite material for bridge design and construction. This presentation will focus on prestressed concrete fabricators' commitment to develop, improve, and implement advanced materials, products, and technology aimed at enhancing the performance of bridges and the options available to the designer.

Michael Caulfield

“Innovative Scour Protection Saves Money at New U.S. Highway 82 Mississippi River Bridge Project”

The contractor for a new cabled stayed bridge crossing the Mississippi River near Greenville, MS took bold measures to initiate a value engineering proposal. In this proposal, the U.S. Army Corps of Engineers used state-of-the-art equipment and procedures to install Articulated Concrete Mat (ACM) at the two main river piers to control scour during the caisson sinking operation. This presentation describes the efforts to gain acceptance of the value engineering proposal and shows the mat installation process with construction photography.

Gowen E. Dishman

“Construction of Open Caissons in the Mississippi River”

This presentation will highlight the construction of two open dredged caissons being constructed over

the Mississippi River in Greenville, MS. The caissons will serve as the foundation for a cable-stayed superstructure with a span length of 420 meters. Subjects will cover general design, construction, and geometry control of the caisson.

SESSION 18 - SURVEYING ADVANCES AND
PROCEDURES

CYPRESS I

MODERATOR: T. W. PARISH

Dr. Clifford J. Mugnier

“Subsidence Monitoring & GPS Leveling”

Recent developments in the research of subsidence trends and the subsequent validation of that research through GPS Leveling techniques by the National Geodetic Survey open new techniques for the Professional Surveying and Engineering Community of Louisiana. The progress of establishing permanent GPS Continuously Operating Reference Stations (CORS) in Louisiana will be presented along with a discussion of new policies on the “Blue-Booking” and publishing of Federal Benchmark data.

Bernard L. Knobloch, Jr. and Eric Lanier

“New Survey Technology and the Law”

Topics of discussion will include legal requirements for highway surveys and the use of new technology in surveys. Also discussed will be new technology, expert testimony, and the court along with the effect of Daubert, Kumho Tire, and their progeny on expert testimony in Louisiana.

Eric Lanier

“Monument Location Maps for State Right of Ways”

This discussion will be an open forum on the “Monument Location Maps” required for Section

708 (Right of Way Monuments) of Part VII (Incidental Construction) of the Louisiana Standard Specifications For Roads and Bridges 2000 ed. (Red Book).

SESSION 19 - CONTINUOUSLY REINFORCED
CONCRETE PAVEMENTS/WHITETOPPING
CYPRESS II

MODERATOR: JANICE WILLIAMS

Mike Darter

“AASHTO Pavement Design for CRCP in Louisiana”

A new mechanistic-based design procedure has been developed over the past several years for new and rehabilitated highway pavements. This new procedure covers flexible pavement, jointed plain concrete, and continuously reinforced concrete pavement (CRCP). The new CRCP design procedure is very comprehensive—the designer can now consider crack spacing, reinforcement content, and slab thickness to provide a long term, smooth CRCP design for new or reconstructed projects or for overlays of old concrete or asphalt pavements.

Michael N. Plei

“Cost Sensitivity and Ramifications of CRCP Features”

A life-cycle cost analysis study of continuously reinforced concrete pavement was performed, using recent project cost data, to evaluate the cost-effectiveness and performance of the five most influential CRCP design features.

Nicholas F. Verret, Jr.

“US-167 Whitetopping Project - Lessons Learned”

In the spring of 1999, an ultra-thin whitetopping overlay was placed on US-167 in downtown Winnfield, LA. In the four-year period since completion of the project, the whitetopping has per-

formed well overall. However, some maintenance problems have resulted from the expansion of the concrete overlay, leading to a planned project for the construction of retro-fitted expansion joints into the pavement at specified locations. Thus, the primary lesson learned by the project designers is that expansion joints should be planned into the construction of future whitetopping projects.

SESSION 20 - DOTD ENVIRONMENTAL
COMPLIANCE PROGRAMS

BAYOU/LEVEE

MODERATOR: DOUG HOOD

James "Ed" Bodker, Jr. and Joubert Harris
"DOTD Environmental Compliance Programs"

Minimizing delay cost and maintaining construction schedules in an environmentally efficient manner are key components in meeting the mission of DOTD. This presentation will focus on the role of the Environmental Evaluation Unit and how the effective application of environmental regulations serves to facilitate the various stages of project development. Learn more about DOTD's compliance with state and federal guidelines affecting underground storage tanks, and other DOTD statewide regulated programs.

Wayne R. Slater
"DEQ Enforcement—An Overview"

The goal of the DEQ Enforcement Division is to ensure compliance with state environmental regulations; however, the enforcement process can be quite intimidating to those that are unfamiliar with it. This presentation will examine the process from start to finish, what it means when you receive an enforce-

ment action, and present some tips on how to deal with the agency on enforcement matters.

“HOW-TO” CLINIC 3 - DOTD’S CAREER AND
EMPLOYMENT OPPORTUNITIES FOR CIVIL
ENGINEERS, GRADUATES, AND STUDENTS

MISSISSIPPI QUEEN/DELTA QUEEN

MODERATOR: MIKE BOUDREAUX

The promotion of DOTD employment opportunities is a responsibility shared by all departmental sections. In this unique forum of interested students, DOTD employees from the various departmental directorates will give presentations related to the responsibilities of their workgroups.

“HOW-TO” CLINIC 4 - DOTD PERMIT AND
REVIEW REQUIREMENTS

SAMUEL CLEMENS/NATCHEZ

MODERATOR: LARRY ARDOIN

Presentation and discussion will include Permit Legislative Authorization and background, District submittal requirements, hydraulic reviews, and traffic flow reviews.

WORKSHOP FOR SUCCESS 6 -
COMMUNICATION SKILLS

RIVERBOAT

Effective communication skills are essential to maximizing productivity. This session will focus on the significance of nonverbal communication, applying effective listening skills, and how to plan and conduct a performance feedback interview that will improve job performance and/or work relationships.

TUESDAY, FEBRUARY 17, 2004
1:00 P.M. - 2:45 P.M.

SESSION 21 - LIFE CYCLE COST ANALYSIS
PREMIER I
MODERATOR: PHIL ARENA

Kirk M. Zeringue

“Status of ADAB/Utilizing Life Cycle Cost Analysis”

This presentation discusses the factors that influence LADOTD’s life cycle cost analysis (LCCA), the criteria for Alternate Design/Alternate Bid (ADAB) projects, and the results of ADAB projects to date.

Michael Smith

“FHWA Real Cost ‘LCCA’ Software”

This presentation introduces the audience to the new FHWA LCCA software. It will also explain the difference between deterministic and probabilistic approaches, emphasize the benefits of a probabilistic approach, and demonstrate the software’s usability to the audience.

Peter A. Allain

“Queue Analysis for Work Zones”

This presentation describes the method utilized to predict queue lengths and delay times for lane closures for Interstate construction projects. The process has been used to identify the best and worst times for lane closures.

SESSION 22 - RUBBLIZATION AND OVERLAY
PREMIER II
MODERATOR: MIKE RICCA

Phillip J. Kirk

“Rubblizing: History and Latest Technology”

This history of rubblizing from its beginning in 1986 to the present emphasizes the evolution of the technology to its current state-of-the-art.

Tom Scullion

“Nondestructive Testing Results from the Rubblized Concrete Pavement on IH 10 in Louisiana”

Nondestructive testing data was collected on two rubblized sections of IH 10 in Louisiana. Ground Penetrating Radar data was used to identify subsurface moisture and construction defects in either the asphalt surface or rubblized concrete layers, and Falling Weight Deflectometer data was used to estimate in-situ layer stiffness and overall pavement strength. This presentation will describe each technology, present the results obtained, and make recommendations for future projects.

Gary Fitts

“Rubblization and HMA Overlay-National Performance”

Rubblization and HMA overlay has become a very popular approach for rehabilitating/reconstructing existing Portland cement concrete pavements in many states, including Louisiana. The presentation will note the extent to which rubblization is being used, performance trends, and illustrate typical overlay thickness and mixture/material types applied to these projects.

SESSION 23 - BRIDGE RESEARCH
PREMIER III
MODERATOR: WALID ALAYWAN

Dr. Paul Ziehl

“Monitoring of the Bonnet Carre’ Spillway during an Extreme Overload”

Extreme overloads are a common occurrence in Louisiana. Some questions exist regarding the damage that may be caused to roads and bridges by these extreme overloads. In this presentation, a field monitoring effort prior to, during, and after the passage of a 2.4 million pound overload is described.

Dr. Henry Russell

“High Performance Concrete”

For ten years, the Federal Highway Administration has provided a national program to implement the use of high performance concrete (HPC) in bridges. The program has included construction of demonstration bridges, showcase workshops, international conferences, and other technology transfer activities. Concurrently, DOTD has implemented the use of HPC in several bridges and LTRC has been sponsoring research to advance the technology. The presentation will describe the national program and Louisiana’s contribution.

Dr. Armin B. Mehrabi

“Evaluation of the Stay Cables of the Mississippi River Bridge at Luling”

A unified approach for structural evaluation of stay cables of the Luling Bridge is presented. This approach utilizes novel techniques for stay array integrity check, detection of damage and trouble spots, and design of repair and mitigation schemes. Lessons learned from this investigation will help movement toward designing trouble-free bridges.

SESSION 24 - INFORMATION TECHNOLOGY
ENABLING DOTD

CYPRESS I

MODERATOR: DOM CALI

Dr. James E. Mitchell

“GIS at DOTD - A Tool for Everyone”

Since fall 2001, DOTD has embarked on an aggressive program to develop an enterprise-wide Geographic Information System (GIS) using ESRI's ArcGIS software. The GIS Implementation Plan has featured a major effort to provide training to all interested DOTD staff. In addition, a large repository of geospatial data has been collected and made available in a GIS Data Warehouse. This Intranet server provides data access to all DOTD staff. An integral part of the plan is providing GIS users with the ability to access mission-critical databases, such as the Surface Type Log file, Master Structure file, LA Water Well Inventory, TOPS, LETS, etc. In addition, DOTD users can seamlessly access enterprise data located at the Department of Environmental Quality and the Department of Natural Resources via the Internet.

Judy Versaw

“The DOTD Web - What It Can and Cannot Do for You”

This presentation will describe a few of the DOTD related topics that can easily be looked up on our Intranet, including employee training, materials testing information, manuals, computer tips, project/highway information, and more.

Nancy Seal

“Notes Now - Let's Talk”

In addition to taking advantage of Lotus Notes' functionality, this session presents a brief review of topics such as the latest enhancements in email communication, a demonstration of Notes Sametime, and bringing video conferencing and remote PC assistance to the workplace.

SESSION 25 - PPMS AND AARS

CYPRESS II

MODERATOR: ROBERT BOAGNI

Robert E. Boagni

“PPMS”

This presentation will review the basic Program and Project Management System (PPMS) design concepts and display and explain current PPMS project samples. Recent successes with PPMS will be highlighted, and the Phase 3 & 4 PPMS Development Projects objectives and benefits will be described.

Carlos R. Zervigon

“Principles and Practices of Project Management”

Topics discussed will include project initiation, project plan development, scope planning, scope definition, organizational planning, communications planning, resource planning, activity definition, activity sequencing, activity duration estimating, and schedule development.

Pamela Leon

“Appraisal, Acquisition and Relocation Program”

This session is an overview of the new Real Estate tracking system, a browser-based comprehensive data collection system that enables high level multi-project management as well as detailed individual project tracking in real time.

SESSION 26 - STABILIZED BASES
BAYOU/LEVEE
MODERATOR: KEVIN GASPARD

Dr. David R. Luhr

“New Developments in Soil-Cement”

Soil-cement has been used in road pavements since 1935. Even with this history, considerable research and development is ongoing to improve soil-cement performance. This presentation highlights three new areas of development: 1) use of pre-cracking to reduce reflection cracking, 2) use of Tube Suction Test to develop mix designs, and 3) the new test procedures to evaluate potential for sulfate conditions. Projects where these new procedures have been used will be discussed.

Dr. Louay Mohammad

“Resilient Modulus of Cement Treated Soils”

The resilient modulus represents the dynamic stiffness of pavement materials under repeated loading of vehicles. It is used to characterize base and subgrade soils and for pavement design. Resilient modulus of cement-treated soils varies with the cement content. The objective of this paper was to develop a correlation between the resilient modulus test results and physical properties of soils. Resilient modulus and physical properties tests were performed on two cement-treated soil types: silty clay and clayey silt. As expected, the resilient modulus of cement-treated soils increased with an increase in the cement content.

Samuel B. Cooper, Jr.

“LTRC's Field and Lab Experience on Asphalt Treated Bases”

The utilization recycled asphalt pavement (RAP) has been very beneficial to a more efficient and economi-

cal highway construction program. Base course is one of the several uses of RAP. There are several techniques that are used to stabilize RAP for use as a base course. This presentation will look at Louisiana's laboratory and field experience in using some of the various techniques for stabilizing RAP as base course.

SESSION 27 - MEGAPROJECTS II
MISSISSIPPI QUEEN/DELTA QUEEN
MODERATOR: DAN BROUSSARD

Roy Williams

“The Post 9/11 Airport”

The events of 9/11 permanently altered the appropriate design criteria for airports—massing, scale, access. At the same time, changes in the airline industry have altered the economics of airports. This presentation will address how to design and pay for it.

Thomas E. Hunter

“New Orleans Light Rail/Earhart Extension”

The LADOTD and RPC are currently developing highway and transit alternatives to address significant mobility and congestion problems within the East-West Corridor between the New Orleans Central Business District and New Orleans International Airport. A multi-modal solution of both highway and transit improvements is being considered

Huey P. Dugas

“North Bypass for Baton Rouge”

This presentation shows the results of modeling a north bypass for Baton Rouge to determine the feasibility of constructing a new facility designed to interstate standards with controlled access. The limits of

the proposed alignment extended from west of LA 415 on I-10 and near the town of Walker on I-12. The volumes generated by the modeling process showed the project to be feasible. A financial analysis was also conducted to determine the financial feasibility of imposing tolls on the facility.

Michael G. Bruce

“Simulation of I-10 in Baton Rouge”

In an effort to analyze potential congestion relief options, I-10 in Baton Rouge was simulated using microscopic traffic modeling software.

“HOW-TO” CLINIC 5 -
SUPERELEVATION DESIGN
SAMUEL CLEMENS/NATCHEZ
MODERATOR: TREY JESCLARD

Presentation and discussion will include a number of super-elevation design parameters. Interaction between design and construction personnel is anticipated.

WORKSHOP FOR SUCCESS 7 -
CONFLICT MANAGEMENT
RIVERBOAT

This session focuses on the dynamics of interpersonal conflict and the factors that naturally lead to conflict escalation. Methods of defusing conflict will be examined, with emphasis being placed on reaching compromises through collaboration. This session will enable the employee to better cope with potential individual disagreements that occur in the workplace through a comprehensive system of techniques and practical situational learning.

TUESDAY, FEBRUARY 17, 2004
3:00 P.M. - 4:45 P.M.

SESSION 28 - HIGHWAY SAFETY
PREMIER I

MODERATOR: MARY STRINGFELLOW

James E. Champagne

“Louisiana Highway Safety Issues”

This presentation will discuss highway safety issues that need to be addressed through legislation, public information, and enforcement.

Dan Magri

“DOTD’s Comprehensive Plan for Improving Highway Safety”

This presentation will introduce DOTD’s Comprehensive Plan for improving highway safety. Louisiana’s highway safety record has historically been one of the worst in the country. As a result, the Office of Planning and Programming has developed a comprehensive plan to improve highway safety. The details of the plan will be discussed in this session.

Dr. Xiaoduan Sun

“Highway Safety Analysis”

To develop efficient highway safety countermeasures, it is important to know how, where, and when crashes happened. The accomplishment of such a task calls for an accurate crash recording system and a computerized crash analysis program. LADOTD has developed a crash data analysis system that can be used to identify highway safety patterns and trends.

SESSION 29 – PERSPECTIVE ON
TRANSPORTATION SYSTEMS MANAGEMENT
AND OPERATIONS

PREMIER II

MODERATOR: STEVE GLASCOCK

Robert “Butch” Babineaux, Jr.

“National I-10 Freight Corridor Study”

This study was a joint undertaking of the state Departments of Transportation in LA, CA, AZ, NM, TX, MS, AL, and FL. The purpose of the study was to analyze current and future freight movements, assess how current and future freight volumes impact national and local transportation systems, and develop a plan for improving freight flow along the entire I-10 corridor from coast to coast. Study objectives included assessing importance of freight on I-10 and the economy of corridor states; identifying freight operations and safety problems; and identifying and evaluating multimodal strategies needed to facilitate freight flow.

Dr. Walter H. Kraft

“The Future of Transportation Management and Operations”

The presentation will discuss why the Management and Operations (M&O) aspect of Transportation Management and Operations is important. After a vision and definitions are presented, a comparison will be made of two regions—one with a high level of M&O and the other with a minimal level of M&O. The presentation ends with a look towards the future and a discussion of what needs to be done.

SESSION 30 - ACCELERATED LOADING OF
PAVEMENTS

PREMIER III

MODERATOR: PHIL ARENA

William "Bill" King, Jr.

"Taking Total Control of the ALF"

When LA purchased the Accelerated Loading Facility (ALF) device from Engineering Incorporated in 1993, the system used a Microsoft DOS based system to control the ALF device. Technology has changed quite extensively since that time, and a new control system was necessary. The purpose of this project was to design and install a new control system that would control the ALF device in the same manner as before with some enhanced features and state-of-the-art equipment. The ability to monitor and operate the ALF device from a remote location is also discussed. Overall, the performance thus far is promising. A discussion of other upgrades and enhancements to the PRF facility and the ALF device are included.

Dr. Freddy Roberts

"Characterization and Modeling of Scrap Tire Rubber Modified HMA Pavements"

A brief description will be given of the materials testing and engineering property characterizations required for modeling powdered rubber modified hot mix asphalt pavements using VESYS and FLEX-PASS. Results will be presented to compare predicted performance with observed performance for the ALF experiment 2 test lanes. Results from an analytical study of asphalt rubber modified hot mix asphalt conducted for the FAA will also be presented to show the predicted performance differences between conventional HMA and rubberized HMA used in

airport pavements. Then an economic analysis will be presented to demonstrate the life cycle benefits of using scrap tire rubber in hot mix asphalt pavements.

Masood Rasoulian

“Evaluation of a RAP Interlayer Under Accelerated Loading”

The results of the ALF experiment on the evaluation of base courses constructed with Reclaimed Asphalt Pavement (RAP) will be discussed. This is the third ALF experiment. In the first ALF experiment, it was found that pavement performance could be enhanced significantly if a layer of stone was placed over the cement-stabilized soil layer and below the flexible asphalt layer. The objective of the RAP interlayer project is to determine the effectiveness of RAP materials as an alternative to stone for base course materials for flexible pavements.

SESSION 31 - NEW IDEAS FOR WORK ZONE
TRAFFIC MANAGEMENT

CYPRESS I

MODERATOR: PETER ALLAIN

Jawad Paracha

“Tools to Analyze Work Zone Conditions”

As work zones nationwide increase in number and complexity, it has become very important to properly analyze traffic impacts resulting from work zones. Work zone traffic analysis is important to ensure safety and improve mobility along work zones. The Maryland State Highway Administration has initiated a number of projects to modify and/or improve software tools to perform such analysis. This presentation will provide a quick overview of these tools.

Michael Klatt

“Real Time Traffic Information”

This presentation and discussion of real-life ITS applications in work zones that provide real time information to the public will include examples of actual project successes, lessons learned and the latest in work zone, wireless, and ITS technology. Additional topic-specific materials will be provided at the session.

Frank Newboles

“What Really Works in Work Zones”

The focus of this presentation is the management of traffic mobility in work zones. What do drivers really want in work zones, and what traffic management elements do agencies need to provide? Mobility issues and solutions will be presented.

SESSION 32 - DEEP FOUNDATIONS

CYPRESS II

MODERATOR: KIM MARTINDALE

John H. Eason

“Case Study-Drill Shaft Installation - Ouachita River Bridge, Monroe, LA”

This slide presentation includes a brief history of the bridge from original construction in the late 1890s through the present, drilled shaft foundation description and installation techniques, and encountered problems and solutions.

Curt Boniol

“LA 27 Drilled Shafts, I-10 Widening over LA 27”

This presentation will discuss the study of the design process in determining constructability, shaft length, and size. Also covered will be the field work involved in CSL interpretation and shaft placement

along with DOTD specifications and guidelines during the construction process.

Chris Nickel

“Specific examples of PDA Data”

Discussion will focus on PDA equipment, benefits, and specific examples of results.

Gary Lecoq

“What is PDA Monitoring/Analysis and How Do We Use It?”

Projects that have required PDA will be discussed with a focus on specific examples where PDA Monitoring/Analysis has been used. Our findings from these past PDA monitoring events will be presented as well as the benefits to the contractor and DOTD.

SESSION 33 - INNOVATIVE DESIGN
BAYOU/LEVEE
MODERATOR: GUY LEONARD

James R. Smith and Ed Wedge

“Saving Old Hickory”

This presentation describes the design steps taken to modify the design of the four-lane Hickory Avenue extension to reduce the construction impacts to an historical Live Oak located on the east bank of Jefferson Parish.

Michael G. Bruce and Brin Kern

“Continuous Flow Intersections”

This presentation will describe an innovative at-grade intersection design that greatly increases signalized intersection capacity.

Joe G. Bared

“Benefits of Roundabouts”

The presentation will cover the basic design concept of roundabouts and differentiate them from traffic circles and rotaries. Safety and operational benefits will be presented from national and international data. Traffic analysis procedure and geometric design guidelines from “Roundabouts: An Informational Guide” will be summarized with illustrations and photos.

SESSION 34 - SPECIAL APPLICATIONS FOR
CONCRETE

MISSISSIPPI QUEEN/DELTA QUEEN

MODERATOR: CRAIG DUOS

Jack Holley

“SCC Design and Applications”

Self Consolidating Concrete (SCC) is emerging as the concrete of choice for an increasing number of applications across North America, first gaining momentum in the precast industry and more recently in the supply of Ready Mixed Concrete. The presentation describes mix formulation challenges, highlighting the significant differences from conventional concrete design. The design fundamentals identify the key levers in the selection of all the ingredients from aggregates and cementitious systems to the new range of superplasticizers.

Dr. Robin E. Graves

“Chloride in Concrete Mixtures”

Chloride ions are the major cause of steel corrosion in concrete. Conformance to chloride specifications

and performance of concrete requires detailed knowledge of testing methods and chloride content of mixture components. Mineral aggregates comprise the largest portion of concrete mixtures and are major contributors to chloride content. Calculations can be performed to assist in predictive specifications conformance based on knowledge of aggregate chloride content and mixture proportioning.

Tim Cost

“The Changing State-of-the-Art in Cementitious Selection for Concrete”

Changing Portland cement properties over time means that a mix design used years ago may no longer produce the same properties or durability. Fly ash, slag cement, and other supplementary materials are increasingly available and may assist in meeting concrete engineering requirements. Performance trends and use recommendations will be discussed.

SESSION 35 - PLANNING I
SAMUEL CLEMENS/NATCHEZ
MODERATOR: TOM ATKINSON

Bruce Lambert

“A National Perspective of Freight Movement”

This discussion presents findings from the Freight Analysis Framework and other related work conducted by FHWA to examine freight mobility and system performance.

Larry Collins

“Louisiana's Position in the Global Economy”

An overview of Louisiana's role in the global economy will be presented.

Jonathan B. Red

“Sea Point - A Louisiana Solution”

The Sea Point container transshipment facility, to be located in Venice, LA, uses the Mississippi River and waterways to efficiently distribute large gateway container loads into existing road and rail infrastructure at numerous inland port locations.

WORKSHOP FOR SUCCESS 8 –
LEADERSHIP SKILLS
RIVERBOAT

This session will provide a background and foundation for participants to both reflect on their current leadership skills and begin building and adding to those skills. The session will focus on situational leadership, which will enable the participant to better manage through comparing work situations and tasks with individual developmental levels.

WEDNESDAY, FEBRUARY 18, 2004
8:00 A.M. - 9:45 A.M.

SESSION 36 - IMPROVEMENTS TO PAVEMENT
FOUNDATIONS

PREMIER III

MODERATOR: DR. ZHONGJIE “DOC”
ZHANG

Sean Wokasien

*“Use of Geogrid for Subgrade Improvement & Base
Reinforcement for Pavements”*

The presentation will discuss geogrid applications pertinent to increasing pavement performance. Case histories in Louisiana and associated research by the US COE will be covered.

Dr. Kenneth McManis

“A Laboratory Evaluation of Modification and Stabilization Additives for Problematic Silt Soils”

The instability and pumping response of non-plastic, high silt (and fine sand) soils was investigated. These soils are commonly encountered in the preparation of the subgrade for highway pavement projects in Louisiana. Common reagents are lime and lime-fly ash.

Mark Morvant

“Evaluation of Subbase Layer on Pavement Performance”

Researchers have developed guidelines for identifying problem silt-soils and the appropriate method for stabilization. The results indicated that cement or cement/slag treatment of silt subgrades would provide greater performance benefits than lime treatment, even in wet conditions. This concept has been implemented on several DOTD projects consistent with the working table concept of not allowing any structural value included in the pavement design. LTRC is currently investigating whether a subgrade layer will not only provide a working table for pavement construction, but also provide a pavement layer that contributes to the overall structural capacity of the pavement. This presentation will summarize the results to date of this on-going research project.

SESSION 37 - LOUISIANA STATEWIDE
TRANSPORTATION PLAN

CYPRESS I

MODERATOR: DR. ERIC KALIVODA

Dr. Eric Kalivoda and Robert "Butch" Babineaux
"Louisiana Statewide Transportation Plan"

The Louisiana Statewide Transportation Plan is a multimodal 30-year transportation plan. This session will provide a comprehensive overview of the plan, including how and by whom it was developed; what policies, programs, and projects are included; potential funding mechanisms; and the economic impacts resulting from implementation.

SESSION 38 - DELIVERY OF TECHNOLOGY
THROUGH INTELLIGENT TRANSPORTATION
SYSTEMS

CYPRESS II

MODERATOR: JOHN BROEMMELSIEK

Vernon E. Beyer

"Advanced Transportation Controller"

This presentation will provide the audience with a update on current specifications, revisions, adoptions, and status of the next generation of the ATC (Advanced Transportation Controller). Architecture, API effort, and changes in technology will be discussed as well as the latest changes to the Caltrans specifications.

Miles B. Williams

"Weigh In Motion in Louisiana"

Discussion will focus on deployment of Mainline Weigh in Motion technologies in Louisiana including three existing facilities and three future sites. Design, implementation, hardware and software integration, and enforcement will be highlighted.

Rick Schuman

“Louisiana 511 Plan and Pilot Implementation”

LaDOTD contracted with PBS&J to create a strategic business plan for implementing 511 in the state of Louisiana, beginning with a pilot system covering the greater Baton Rouge area. This presentation summarizes results of this study and an updates 511 implementation in Louisiana.

SESSION 39 - PAVEMENT EVALUATION
BAYOU LEVEE

MODERATOR: MASOOD RASOULIAN

Kevin Gaspard

“LTRC Technical Assistance Capabilities for Pavement Evaluations”

The Pavement Research team at LTRC spends the majority of its time performing technical assistance for DOTD construction, design, and maintenance. An array of tools such as the FWD, Dynaflect, friction tester, and high speed profiler are used to provide this service. Evaluation of projects such as existing pavement typical section strengths and integrity and pavement friction are among the top requests. This session will address how the equipment works, how the data is reduced and what it means, and what can be assessed in the pavement structure and surface.

Mark Martinez

“Implementation of IRI Specification”

Since 1990, the Federal Highway Administration (FHWA) has required the states to report road roughness on the International Roughness Index (IRI) scale for inclusion in the Highway Performance Monitoring System (HPMS). The objective of this presentation is to explore the background, implica-

tions, and implementation of the IRI specification as it was first established by the World Bank and examine DOTD's subsequent deployment of the IRI specification as a criterion for evaluating its highway inventory.

Dr. Freddy Roberts

“Impact of Sugar Cane Truck Traffic on Maintenance and Rehabilitation Costs of LA Low Volume Highways”

Transporting sugar cane is the major source of truck loads on many south LA highways. With the purchase of a \$100/yr harvest permit, truckers can load a 3-S2 vehicle to 100,000 lbs. gross vehicle weight (GVW). A literature review was conducted to identify models which can be used to predict pavement distress for the types of roads carrying sugarcane traffic. Using the predicted distress, maintenance and rehabilitation (M&R) strategies have been developed to treat the various combinations of distress which warrant repair. This paper contains the distress models chosen for use with each pavement type alone with the methodology used to develop the costs used to compare the consequences of various GVW scenarios. Data will be presented to demonstrate the differences in cost between the 1000,000 lb GVW and the 80,000 lb GVW for selected roadways.

SESSION 40 - ACCESS MANAGEMENT
MISSISSIPPI QUEEN/DELTA QUEEN
MODERATOR: KAREN HIDER

Chris Huffman

“Public/Private Partnerships in Access Management”

US-183 in Hays, Kansas has enormous development potential. An improvement project has been approved, and preserving development potential is a

priority. A partnership was formed by KDOT, Hays, and property owners to provide access roads. This partnership will save money in the highway project, increase property values, and preserve network efficiency.

Philip Demosthenes

“Successful Access Management”

This presentation will describe arterial access management and its purposes and benefits. The 26-year-old Colorado program will be used as an illustration of program elements, policies, and administration. Discussion of programs in other states and local governments will be included.

“HOW-TO” CLINIC 6 -
PHASE II NPDES REQUIREMENTS FOR
CONSTRUCTION PROJECTS
SAMUEL CLEMENS/NATCHEZ
MODERATOR: JULIE TAYLOR

This clinic will present in “plain English” the legal requirements for maintaining compliance with EPA’s Phase II storm water regulations applicable to design and construction engineers, contractors, and inspectors involved in highway construction.

WORKSHOP FOR SUCCESS 9 -
TIME MANAGEMENT
RIVERBOAT

This session emphasizes the knowledge and skill necessary to proactively control events on a daily, weekly, monthly, and yearly basis. Participants will learn to manage occurring scheduled events while successfully adapting to unscheduled events. The techniques presented emphasize goal setting and delegation commitments between supervisors and those they directly supervise.

WEDNESDAY, FEBRUARY 18, 2004
10:00 A.M. - 11:45 A.M.

SESSION 41 - POROUS FRICTION SURFACES
PREMIER III
MODERATOR: SAM COOPER

Allen Cooley

“OGFC Study (Design and Summary of Performance/Use in Southeast)”

This discussion will focus on the design and performance of OGFC mixtures based on recent research and performance.

Dale A. Rand

“TxDOT's Use of Permeable Friction Courses”

TxDOT began using Permeable Friction Courses (PFC) in 2000. To date, approximately 30 PFC jobs have been constructed in Texas. PFC mixtures are quickly gaining popularity due to their ability to reduce vehicle splash and spray, reduce the risk of hydroplaning, and improve wet weather visibility. In addition to these safety benefits, PFC have been shown to significantly reduce pavement noise. Overall, the comfort and safety features offered by PFC mixtures are unmatched by all other pavement types and mixtures.

David Newcomb

“Pavement Noise: Can You Hear Me Now?”

Noise from roadways is becoming an increasing societal and environmental concern. Noise barriers are expensive features that can be aesthetically objectionable. Paving materials are available that help reduce roadway noise at the source of the tire/pavement interface. This presentation will focus on the pave-

ment technology to reduce noise on high-speed routes.

SESSION 42 - GEOTECHNICAL
APPLICATIONS
CYPRESS I
MODERATOR: BERT WINTZ

Gavin Gautreau

“Development of Geotechnical Information Database”

The objective of this project is to speed the reporting time of Soil Subgrade Survey Data by creating a computer program to expedite the process. The program will create a simple user interface to allow interaction and selection of reporting criteria. It will also compile data into a table to be used by designers. The computer program will shorten the reporting process by automatically compiling the data, performing analyses, and replacing hand drawings with computer-generated tables.

Benjamin A. Fernandez

“Integration of GIS into Geotechnical Exploration Activities”

This presentation offers a brief overview of how DOTD is utilizing off-the-shelf software programs to more efficiently collect, store, and distribute geotechnical data throughout the department.

Steve Meunier

“Our Geotechnical Section's ‘Grab Bag’”

This presentation seeks to introduce consultants and other design groups to the world of geotechnical engineering as commonly employed within the LADOTD Geotechnical Design Section. This world typically includes driven pile foundations, drilled shafts, cantilevered and anchored sheet pile walls, review of temporary cofferdam structures, MSE

walls, embankments with and without wicks, stability of slopes, embankments and wall systems.

Construction-related services also include pile load tests, Osterberg and Statnamic load tests, PDA tests, monitoring of slopes, and settlement readings of embankments.

SESSION 43 - HURRICANE PLANNING AND
EVACUATION

CYPRESS II

MODERATOR: CHESTER WILMOT

Dennis G. Lambert

“Hydrodynamic Modeling and Predicted Water Levels Associated with Storms in Transportation Planning”

Determining flood elevation levels for a corridor study in south LA may be used in the selection of hurricane evacuation routes and other transportation planning projects. Existing coastal routes such as LA 82, LA 56 and LA 1 have seen water levels exceed grade elevations in the last decade from storms that were once considered minor. LA 1, which is proposed to be an elevated four-lane facility, is estimated at \$500M for upgrade. Other new corridors are being proposed for evacuations. Planning and design of these facilities should account for current day predicted water levels in their respective basins.

Transportation planning in the riverine basins should also account for predicted flood events such as the one recorded in the 1983 in Tangipahoa, East Baton Rouge, Livingston, and Ascension parishes.

Donald C. Lewis

“Evacuee Travel Behavior and Traffic Demand”

A number of important hurricane evacuation study efforts have been completed recently in south Louisiana. These behavioral and traffic studies have

been performed by PBSJ under contract to FEMA and the US Army Corps of Engineers. Over the last several years, a hurricane evacuation transportation analysis was developed for southwest and south central LA. Evacuation clearance times were developed for various storm threats and bottlenecks within coastal and inland parishes were identified. Expected evacuee travel demand was predicted for storm surge areas identified by the National Hurricane Center's new storm surge modeling. Last year, Hurricane Lili provided a real time test of data developed in that study.

Laurence Lambert

“Comparative Review and Assessment of Contraflow Evacuation Initiation & Termination Practices”

Recently, coastal communities in the southeast US have been experiencing a rapid population growth. Despite this growth, the number of hurricane evacuation routes in the same areas has remained relatively unchanged. With a significant increase in evacuation volumes and little increase in outbound capacity, evacuations have become more difficult to operate and manage. Today, many of the emergency management and law enforcement agencies are partnering with their state departments of transportation for assistance in evacuation planning and management. From these partnerships new and innovative methods of increasing the outbound capacity during hurricane evacuations have emerged. This presentation highlights a recent review of the state-of-the-practice sponsored by the FHWA, which showed that opinions differ widely on the subject of contraflow initiation and termination.

SESSION 44 - PLANNING II
BAYOU/LEVEE
MODERATOR: LESLIE MIX

Robin Romeo

“Development of the Highway Program”

This presentation on the development of the Highway Program will include an explanation of the budget partition, the project selection process, and the legislative approval process.

Dr. Zhongjie “Doc” Zhang and Jason Chapman
“Forecast of Bridge Needs”

Forecasting bridge needs has been a difficult task to accomplish due to a lack of detailed bridge element information. DOTD’s Bridge Management Section has devised a way to use the state’s NBI data within Pontis, an AASHTO-sponsored bridge management analysis software package.

Said Ismail

“Forecast of Pavement Preservation Needs”

The presentation will cover a list of DOTD Pavement Preservation Strategic Planning Objectives and summarize past average condition and past average spending on all pavement classes (IHS, NHS, SHS, and RHS). It will also demonstrate different budget analysis scenarios for each class and recommend a budget for pavement preservation based on DOTD’s strategic planning objectives.

SESSION 45 -
CONSTRUCTION/MAINTENANCE
INNOVATIONS
MISSISSIPPI QUEEN/DELTA QUEEN
MODERATOR: MIKE RICCA

John Sanders

“Passing Lanes”

Topics discussed will include passing lane patterns, functionality, construction, and various applications. This presentation reviews passing lanes as constructed on five distinct control sections in northwest Louisiana. The passing lanes are compared and contrasted to similar construction in surrounding states.

Gary Icenogle

“Planning Considerations for I-20 Elevated Section in Monroe”

This presentation is an overview of a proposed 2004 project to rehabilitate the bridge decks on a portion of the elevated section of Interstate 20 through Monroe.

James M. Winford, Jr.

“Discussion of Alternates to the ‘Low Bid Method’”

Several U.S. agencies and foreign countries have had success awarding infrastructure projects to contractors based on quantitative factors other than base bid price, alone. Some variables include past on-time completion records, safety history, experience of management, and statistical quality values. Some of these award methods have also included “built-in” warranties/maintenance, smoothness guarantees, and private financing. This presentation presents some of the framework used by other governmental managers to award proposed financing, construction, and maintenance of infrastructure works, including

extensions of existing interstates, development of major port/airport/rail facilities, and construction of “dedicated” truck lanes.

WORKSHOP FOR SUCCESS 10 –
EMOTIONAL INTELLIGENCE
SAMUEL CLEMENS/NATCHEZ

Emotional intelligence is the set of skills that enables us to make our way in a complex world – the personal, social and survival aspects of overall intelligence or the common sense and sensitivity that is essential to effective daily functioning. This session will provide an overview of this increasingly popular organizational topic.

“HOW-TO” CLINIC 7 - HIGHWAY SIGNS AND
BARRICADE DETAILS
RIVERBOAT

MODERATOR: CHARLES ADAMS

This clinic will present and discuss the Department’s new Temporary Traffic Control (TC) detail sheets which have replaced HS-01. Also, the Department’s policy concerning the use of TCs in work zones will be discussed.

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Special thanks goes to GEC, Inc., and John Starring for his tireless efforts to make this conference a success.

PDH DOCUMENTATION

PDH DOCUMENTATION

2004 LOUISIANA TRANSPORTATION
ENGINEERING CONFERENCE
DOCUMENTATION OF PROFESSIONAL
DEVELOPMENT HOURS (PDHS)

PRINT NAME

This form is to be used in documenting Professional Development Hours (PDHs) earned at the conference. To use this form, write in your name at the top of the form. After attending a particular session, initial the appropriate block on the form. At the conclusion of the conference, total the number of PDHs and record below and sign the attested by line. This form and program then becomes documentation of attendance.

DATE AND TIME	SESSION TITLE	INITIALS
Monday, Feb. 16, 2004 8:00 a.m. - 12:00 noon	Opening Session (2.5 PDH)	
	Professional ethics (1 PDH)	
Monday, Feb. 16, 2004 1:15 - 3:00 p.m.	Featured Speaker Session: If You Want No Shoes and No Shirt Then Give No Service (1.5 PDH)	

PDH DOCUMENTATION

DATE AND TIME	SESSION TITLE	INITIALS
Monday, Feb. 16, 2004 1:15 - 3:00 p.m.	Session 1 - Megaprojects I (1.5 PDH)	
	Session 2 - Bridge Design I (1.5 PDH)	
	Session 3 - Improving LA Through the Transportation Enhancement Program (1.5 PDH)	
	"How-To" Clinic 1 - Confined Space Entry Pilot Program (1.5 PDH)	
	(2.5 PDH)Workshop for Success 1 - Emotional Intelligence (1.5 PDH)	
	Workshop for Success 2 - Communication Skills (1.5 PDH)	
Monday, Feb. 16, 2004 3:15 - 5:00 p.m.	Featured Speaker Session: Sailing the Winds of the Seven C's (1.5 PDH)	
	Session 4 - Pavement Preservation (1.5 PDH)	
	Session 5 - Louisiana Timed Managers (LTM) and TIMED: A Partnership for Progress (1.5 PDH)	
	Session 6 - Superpave Update: It's Still Asphalt (1.5 PDH)	
	Session 7 - Ground, Granulated Blast Furnace Slag (1.5 PDH)	
	Workshop for Success 3 - Conflict Management (1.5 PDH)	
	Workshop for Success 4 - Leadership Skills (1.5 PDH)	

2004 TRANSPORTATION ENGINEERING CONFERENCE
PDH DOCUMENTATION

DATE AND TIME	SESSION TITLE	INITIALS
Tuesday, February 17, 2004 8:00a.m. through 9:45 a.m.	Session 8 - Flexible Pavement Design and AASHTO 2002 (1.5 PDH)	
	Session 9 - LA's on the Move, DOTD builds the way: Environmentally (1.5 PDH)	
	Session 10 - Bridge Design II (1.5 PDH)	
	Session 11 - How Traffic Records Affect Tort Litigation (1.5 PDH)	
	Session 12 - Work Zone Design (1.5 PDH)	
	Session 13 - Hydraulic Modeling and Analysis (1.5 PDH)	
	Session 14 - Geotechnical Research (1.5 PDH)	
	"How-To" Clinic 2 - DOTD Workforce Development Policy/Tulane Master of Civil Engineering (1.5PDH)	
	Workshop for Success 5 - Time Management (1.5 PDH)	
Tuesday, February 17, 2004 10:00a.m. through 11:45 a.m.	Session 15 - Geotechnical Case Histories (1.5 PDH)	
	Session 16 - Project Delivery Process (1.5 PDH)	
	Session 17 - Bridge Fabrication/Construction/ (1.5 PDH)	
	Session 18 - Surveying Advances and Procedures(1.5 PDH)	
	Session 19 - CRCP/Whitetopping (1.5 PDH)	
	Session 20 - DOTD Environmental Compliance Programs (1.5 PDH)	
	"How-To" Clinic 3 - DOTD Career/ Employment Opportunities for C.E. Graduates & Students (1.5 PDH)	
	"How-To" Clinic 4 - DOTD Permit and Review Requirements (1.5 PDH)	
	Workshop for Success 6 - Communication Skills(1.5 PDH)	

PDH DOCUMENTATION

DATE AND TIME	SESSION TITLE	INITIALS
Tuesday, February 17, 2004 1:00 p.m. through 2:45 p.m.	Session 21 - Life Cycle Cost (1.5 PDH)	
	Session 22 - Rubbilization and Overlay (1.5 PDH)	
	Session 23 - Bridge Research (1.5 PDH)	
	Session 24 - Information Technology Enabling DOTD (1.5 PDH)	
	Session 25 - PPMS and AARS (1.5 PDH)	
	Session 26 - Stabilized Bases (1.5 PDH)	
	Session 27 - Megaprojects II (1.5 PDH)	
	"How-To" Clinic 5 - Superelevation Design (1.5 PDH)	
	Workshop for Success 7 - Conflict Management (1.5 PDH)	
Tuesday, February 17, 2004 3:00 p.m. through 4:45 p.m.	Session 28 - Highway Safety (1.5 PDH)	
	Session 29 - Perspective on Transportation Systems Management and Operations (1.5 PDH)	
	Session 30 - Accelerated Loading of Pavements (1.5 PDH)	
	Session 31 - New Ideas for Work Zone Traffic Management (1.5 PDH)	
	Session 32 - Deep Foundations (1.5 PDH)	
	Session 33 - Innovative Design (1.5 PDH)	
	Session 34 - Special Applications for Concrete (1.5 PDH)	
	Session 35 - Planning I (1.5 PDH)	
	Workshop for Success 8 - Leadership Skills (1.5 PDH)	

PDH DOCUMENTATION

DATE AND TIME	SESSION TITLE	INI- TIALS
Wednesday February 18, 2004 8:00 a.m. through 9:45 a.m.	Session 36 - Improvements to Pavement Foundation (1.5 PDH)	
	Session 37 - Louisiana Statewide Transportation Plan (1.5 PDH)	
	Session 38 - Delivery of Technology through ITS (1.5 PDH)	
	Session 39 - Pavement Evaluation (1.5 PDH)	
	Session 40 - Access Management (1.5 PDH)	
	"How-To" Clinic 6 - Phase II NPDES Requirements for Construction Projects (1.5 PDH)	
	Workshop for Success 9 - Time Management (1.5 PDH)	
Wednesday February 18, 2004 10:00 a.m. through 11:45 a.m.	Session 41 - Porous Friction Surfaces (1.5 PDH)	
	Session 42 - Geotechnical Applications (1.5 PDH)	
	Session 43 - Hurricane Planning and Evacuation (1.5 PDH)	
	Session 44 - Planning II (1.5 PDH)	
	Session 45 - Construction/ Maintenance Innovations (1.5 PDH)	
	Workshop for Success 10 - Emotional Intelligence (1.5 PDH)	
	"How-To" Clinic 7 - HS-01 Details (1.5 PDH)	
Wednesday February 18, 2004 11:45 a.m. - 1:15 p.m.	Luncheon Speakers (0.5 PDH)	
	TOTAL	