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American Society of Civil Engineers

SHREVEPORT BRANCH

January 2007 Issue

President's Message

**By Elba Hamilton, EI,
President**

Greetings from Panama! I have been in Panama City, Panama visiting with family and friends for almost a month. It is always good to come home and see how much the country grows every year. Panama is definitely growing and the continued construction is a constant reminder and one of the reasons why I decided to be a civil engineer. I never thought I was going to end up in Shreveport after growing up in Panama. However, I can see that no matter where I go, I can take my career with me, since civil engineers are needed almost everywhere.

Besides being on vacation and enjoying the warm weather, I've been busy working on finalizing the schedule for the Section Annual Spring Meeting and Conference schedule. Please make sure to read the information inside the magazine and make plans to attend the Conference. You can also download the Conference registration forms and tentative schedule from our new website at www.lasce.org/shreveport. Yes, you read it right! We have a website! Thanks to the support of the

Louisiana Section and the efforts of Mr. Jim Porter, we now have a website. In addition to finding conference information, the newsletter will be published on the website each month. Older versions of the newsletter will also be available for your reference. Eventually, we will also use the website to post news and events for the Branch. Thanks Jim for your help!

On another note, we will be conducting annual elections in April. During the remainder of January and all of February, the Branch Board of Directors will be looking for nominees willing to serve the Branch. Nominations will be closed the last day in February. In the March newsletter the nominees will be announced prior to the April elections.

I would like to remind you that according to the Bylaws of the Shreveport Branch all of the offices on the Branch Board of Directors are subject to nominations and election each year. In the case that there is no competition from another nominee, the official nominees for the offices are usually the graduating officers from the previous year plus a new



nominee for Secretary. I would encourage you to consider nominating yourself for Secretary of the Branch. This will be a great opportunity to serve the profession and ASCE members in northern Louisiana. If you have any questions regarding the position or need more information on how to serve please contact me at ehamilton@afjmc.com.

Last but not least, I would like to thank everyone that attended the Christmas party at the University Club last month. Everyone that sent a RSVP on time did not have to pay for the lunch, and was able to network and socialize with other fellow engineers. Congratulations to those who won gift certificates to local restaurants and stores! Refer to the pictures inside the newsletter on page 2.

As always, please let me know if you have any suggestions for our branch, including topics and speakers for our meetings. See you Thursday, January 18 at the University Club for our first monthly meeting of 2007.

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Shreveport Branch Webpage:

Visit the Shreveport webpage at <http://www.lasce.org/shreveport> or go to <http://www.lasce.org> and click on the (yellow) Shreveport Branch area of the Louisiana Section map. Newsletters and Spring Conference Information will be posted.

Next Monthly Meeting

- ... **Date:** Thursday, January 18, 2007
 - ... **Time:** 11:45 am
 - ... **Location:** University Club
 - ... **Speaker:** Mr. Brian Nami with Ivy Steel and Wire
 - ... **Cost:** \$15.00 Please RSVP to Rusty Cooper at rcooper@alliance-ae.com or call 318-221-7501
- A PDH will be offered**

If you received the newsletter by mail but not by email, please send your email address to:

cgoodwin@alliance-ae.com

ON THE WEB

www.lasce.org/shreveport



2006 Christmas Party



(Above) Keith Norwood received a Gift Certificate to Carrabas



Daniel Thompson received a Gift Certificate to Cantina Laredo.



(Above) Thanks Ali Mustapha for remembering to bring an unwrapped toy to the Christmas Party. The toys were donated to Toys for Tots.

(Right) Ted Stawasz received a Gift Certificate to Target.



(Above) Eric Hudson received a Gift Certificate to Bass Pro Shops.



(Above) Left to Right, Rusty Cooper (vice president), Cody Goodwin (secretary), Jarred Corbell (treasurer) at the sign in table





Conference Agenda (Tentative)

2007 Annual Spring Meeting and Conference

March 22 - 23, 2007

Shreveport, Louisiana



●●● Conference Agenda Wednesday, March 22, 2007 ●●●

Time	Technical Session 1	Technical Session 2
Location	Room No. 1	Room No. 2
7:30 am - 8:30 am	Conference Registration in the Hotel Foyer	
8:00 am	Exhibit Area Opens	
9:00 am - 9:50 am	Water hammer and transient modeling <i>Frank K. Smith, III</i> <i>Pipe Tech, Inc.</i>	Trenchless Technology Presentation <i>Jandranka Simicevic</i> <i>Trenchless Technology Center</i> <i>Louisiana Tech University</i>
9:50 am - 10:10 am	Break in the Exhibit Area	
10:10 am - 11:00 am	Control valves <i>Frank K. Smith, III</i> <i>Pipe Tech, Inc.</i>	Precast concrete bridge solutions <i>Oliver S. Delery, Jr., PE</i> <i>Hanson Pipe and Precast</i>
11:10am - 12:00noon	Effective utilization of subsurface utility engineering <i>Jeffrey Vick</i> <i>Gorronдона and Associates, Inc.</i>	Electronic enforcement of red light running study <i>Tony R. Tramel, PE</i> <i>Lafayette Consolidated Government</i>
12:00 noon - 1:15 pm	Luncheon with Keynote Speaker	
1:30 pm - 2:20 pm	Application of activated carbon absorption and ozonation for treatment of contaminated waters <i>Mark Zappi, PE</i> <i>University of Louisiana at Lafayette</i>	Ethics <i>Presenter TBA</i>
2:20 pm - 3:00 pm	Break in the Exhibit Area	
3:00 pm - 3:50 pm	Identification, modification and construction with/on expansive soils <i>Billy R. Prochaska, PE</i> <i>Soil and Foundation Engineers, Inc. (Retired)</i>	Life-Safety Code (Part 1) <i>W.K. Matlock</i> <i>State Fire Marshal's Office</i>
4:00 pm - 4:50 pm	Soil Conservation Service curve number estimates of runoff: Hidden uncertainties and lack of scientific basis puts many practitioners in some jeopardy <i>Steven C. McCutcheon, PE</i> <i>University of Georgia</i>	Life-Safety Code (Part 2) <i>W.K. Matlock</i> <i>State Fire Marshal's Office</i>
6:30 pm - 9:30 pm	Awards Banquet with Keynote Speaker	

●●● Conference Agenda Friday, March 23, 2007 ●●●

8:00 am	Exhibit Area Opens	
9:00 am - 9:50 am	Porous concrete to eliminate runoff in parking sites <i>Aziz Saber, PE</i> <i>Louisiana Tech University</i>	The role of civil engineering in coastal restoration <i>Donald Hayes, PE</i> <i>University of Louisiana at Lafayette</i>
9:50 am - 10:00 am	Break in the Exhibit Area	
10:10 am - 11:00 am	Treatment of wastewater from interstate rest areas <i>Dixie M. Griffin, Jr., PE</i> <i>Louisiana Tech University</i>	Thickness design jointing and reinforced concrete pavements and slabs on grade Part 1 and Part 2 <i>H. Rolfe Jennings, II</i> <i>Concrete Reinforcing Steel Institute</i>
11:15 am - 12:15 am	Topic TBA <i>Presenter TBA</i>	
12:15am - 1:30 pm	Luncheon and Section General Membership Meeting	
1:30 pm - 3:30 pm	Section Board of Directors Meeting	

REGISTRATION FORM

2007 Annual Spring Meeting and Conference

March 22-23, 2007

Clarion Shreveport Hotel • Shreveport, Louisiana

Item	No.	Cost	Total
<u>Registration Fees*:</u>			
Member Registration by March 1	___	@\$150.00	\$ _____
Member Registration after March 1	___	@\$175.00	\$ _____
Non-Member Registration by March 1	___	@\$160.00	\$ _____
Non-Member Registration after March 1	___	@\$175.00	\$ _____
Student Registration	___	@\$15.00	\$ _____
<u>Luncheon Admissions (Thursday and Friday):</u>			
Conference Registrant	___	no charge	
General Admission Thursday Luncheon	___	\$15.00 each	\$ _____
General Admission Friday Luncheon	___	no charge	
Student Admission Thursday Luncheon	___	\$10.00 each	\$ _____
<u>Award Banquet** Admissions (Thursday):</u>			
General Admission	___	\$35.00 each	\$ _____
Life Member honoree and a guest	___	no charge	
Award Recipient and a guest	___	no charge	
Student Admission	___	\$10.00	\$ _____
TOTAL PAYMENT ENCLOSED:			\$ _____

* Registration fee includes admission to the Thursday and Friday luncheons, the exhibits and the technical sessions.

** Award Banquet Entrée Choices: ___ Prime Rib of Beef Au Jus ___ Chicken Florentine

Name: _____ Branch: _____

Spouse's / Date's Name (if attending banquet or a luncheon): _____

Company Name: _____ ASCE Member No: _____

Address: _____ City, St, Zip: _____

Phone: _____ Fax: _____ E-mail: _____

Please make checks payable to **ASCE - Shreveport Branch** and mail with this form to:

ASCE - 2007 Conference
Post Office Box 3994
Shreveport, LA 71133

Registration and Information: To register or obtain additional information, by telephone please call Elba Hamilton at 318-425-7452. To register by facsimile, send the completed registration form to Elba Hamilton at 318-425-4622.

Overnight Accommodations: For Conference hotel reservations, call the Clarion Shreveport Hotel at 800-321-4182 by March 1 to receive the special Conference group rate of \$76.00 per room.

SPONSOR / EXHIBITOR APPLICATION FORM

2007 Annual Spring Meeting and Conference

March 22- 23, 2007

Clarion Shreveport Hotel • Shreveport, Louisiana

<u>Sponsorship Type</u>	<u>No.</u>	<u>Cost</u>	<u>Subtotal</u>
GOLD	___	@ \$400 = \$	_____
SILVER	___	@ \$275 = \$	_____
BRONZE	___	@ \$175 = \$	_____

<u>Exhibitor</u>	<u>No.</u>	<u>Cost</u>	<u>Subtotal</u>
	___	@ \$300 = \$	_____

Total Fees Remitted: \$ _____

Exhibit booth space is 8' x 10'. The space is available for both days of the Conference.
The exhibit booth is equipped with of one skirted 6' long table, two chairs, and a trashcan.

Do you need electrical hook-ups? Yes _____ No _____

Are you interested in contributing a door prize? Yes _____ No _____

Sponsors and Exhibitors will receive admission for one to attend the Thursday and Friday luncheons, and the Thursday banquet. Must RSVP to receive tickets.

Firm Name: _____

Address: _____

Telephone No. _____ Facsimile No: _____

Email Address: _____

Contact Person: _____

Please make checks payable to **ASCE - Shreveport Branch** and mail with this form to:

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Project Spotlight: LSU Baseball Stadium (Box Stadium)

By Matt Wallace President/Structural Engineer AFJMc

The LSU Tiger baseball program has won five national championships, all coming between 1991 and 2000, and because recruiting is the lifeblood of a successful athletic program, a school's athletic facilities play an important role in persuading prospective athletes. In 2005 LSU made a commitment to replace the aging Alex Box Stadium, built in 1938 and renovated numerous times, particularly since the arrival of Skip Bertman in 1983. The goal of the new stadium is to re-establish LSU's national prominence by making it the premier program in the nation once again. By showcasing its superior facilities to recruit and obtain the best players, LSU is striving to field more championship teams, which in turn will help continue the program's streak of 11 consecutive years of being the nation's leader in total and average attendance (nearly 4 million fans have watched Tiger baseball in the current Alex Box since 1984). The new Alex Box Stadium was a factor in luring new head coach Paul Mainieri from Notre Dame, and it will also pay dividends in attracting

top playing talent.

The privileged design team assigned the task of beginning this process has been led by Grace & Hebert Architects of Baton Rouge and nationally renowned HOK Sport, the leader in stadium and arena design, who also assisted with both recent upper deck expansions to Tiger Stadium. Aillet, Fenner, Jolly & McClelland, Inc. (AFJMc) of Shreveport and Baton Rouge was selected by Grace & Hebert to provide structural engineering services for the new Alex Box Stadium.

The program calls for a venue with state-of-the-art support facilities, such as a grand lounge for alumni athletic boosters, 19 upper level suites with room to add 12 more, training and treatment rooms, athletic offices, and a Tiger Baseball Hall of Fame. The new Box has been designed to comfortably seat 8,000 Tiger fans, slightly more than the current stadium, and the architecture conveys a modern feel while also matching the traditional Spanish architecture of the

LSU campus with the inclusion of brick arches and terracotta tile roofs.

The stadium is composed of five levels:

Field Level

Seating Bowl

Concourse Level

Suite Level

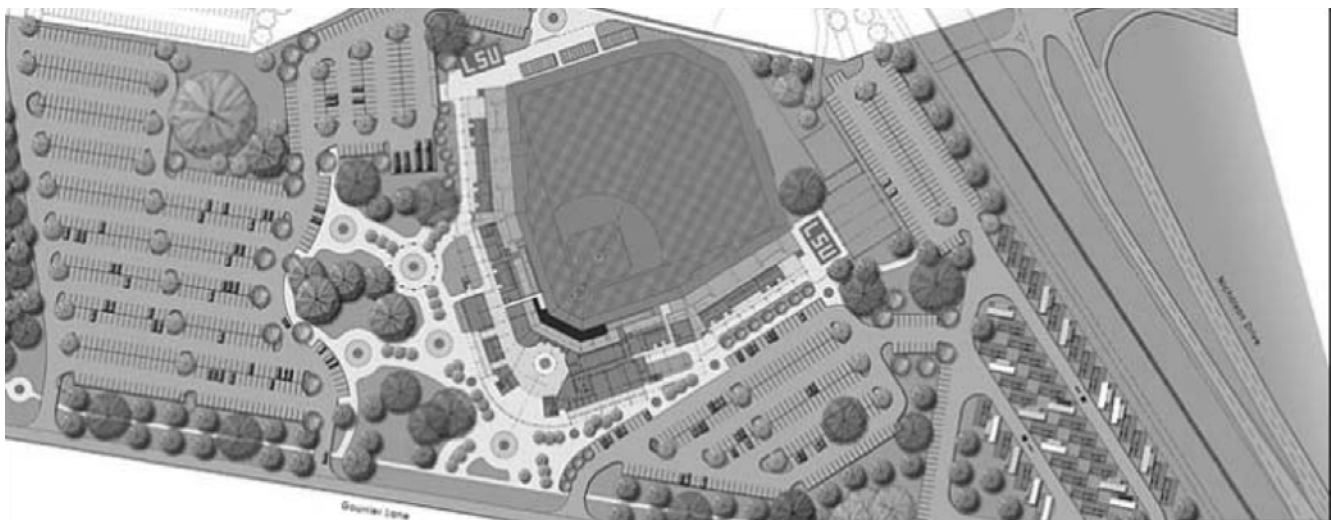
High Roof.

The Field Level is tucked under the seating bowl and houses the team clubhouses, umpires' locker room, meeting rooms, offices, trainer's facilities, the Purple Lounge, ticket box offices, concessions, and the Tiger Baseball Hall of Fame. The most interesting structural aspect of the field level is the presence of an under-slab drainage system. The sandy/silty soil adjacent to the Mississippi River is susceptible to sand boils, so without the use of an under-slab drainage system, the floor slab could heave and crack due to hydrostatic pressure.

For more information and pictures log on to:

www.makeyourpitch.net

Cont'd Page 7



Project Spotlight Cont'd

The Seating Bowl has two distinct levels: a lower bowl composed of a stepped concrete slab-on-grade placed on fill and an upper bowl composed of pre-cast, pre-stressed seating sections supported by steel girders. The connections for the pre-cast, pre-stressed sections are designed to accommodate the long-term creep and shrinkage of pre-stressed concrete, and the steel girder depths and support elevations were carefully determined to allow headroom for the support facilities located on the Field Level below the seating bowl. To achieve the necessary clearances while maintaining the architectural aesthetics, the girder spans were reduced by adding an extra line of pipe columns within a corridor wall along the entire length of the seating bowl. This allowed the use of two shorter spans as opposed to one long span for each girder line.

The Concourse Level is 21 feet above the field level and will house concessions, souvenir stands, and restroom facilities. It is framed using a concrete topping slab on a water-proofing membrane on a sloped structural concrete slab supported by a composite metal deck spanning between composite steel beams spaced at approximately eight feet.

The Suite Level is 35 feet above the Field Level and will house 19 state-of-the-art suites (with room to add 12 more for a national high of 31) and press and broadcast facilities. The framing is similar to that of the Concourse Level, but the suites required design consideration for their cantilevered pre-cast seating areas and their drainage needs.

The High Roof is a cantilevered, exposed steel structure supported by W24 forestay and backstay columns with W36 beams extending 65 feet over the infield seating bowl toward the field. The forestay columns extend 15 feet above the W36 roof support beams, and eight-inch diameter pipes frame from the tops of the forestay columns at an angle to brace the W36 cantilever beams at a point 20 feet from the end of the beams.

The W24 forestay and backstay column bays are spaced at 25 feet and support all levels of framing. Each framing level at these bays consists of moment resisting frames to resist lateral wind and seismic loads transverse to the first and third base lines. Longitudinal forces are resisted by transverse braced frames with axial loads as high as 250 kips.

Other design considerations

involved foundations for the new mammoth scoreboard to be located behind the right-center field fence, light standards around the field, and the left field bleachers that will be brought from the current stadium and are home to the "Left Field Lunatics". Original plans for a grassy seating berm behind the right field fence were scrapped due to budgetary reasons. Structural elements of the new Alex Box were designed using Enecalc and RISA 3-D structural engineering software. Foundation, retaining wall, floor, and roof elements were designed using Enecalc design modules, and RISA 3-D was employed to check beam/column strengths and structural deflections under wind and seismic lateral loads. A rigorous analysis using AISC LRFD methods as well as professional judgment was required to select effective column stiffness factors for the unbraced multi-story moment frames.

AFJMc is proud to be a part of returning LSU baseball to national dominance and helping the Tigers win more national championships!

Visit www.lsusports.net and www.makeyourpitch.net to find updates about and view renderings of the new Alex Box Stadium.

For more information and pictures log on to:

www.makeyourpitch.net



Positions Available:

NTB ASSOCIATES INC.
Civil Engineering Intern.
Call 318.226.9199 For More Information.

LaTech is Hosting the 2007 Deep South Conference and Needs Sponsors. Contact the LaTech ASCE Chapter President Nathan Linhardt at nateus701@yahoo.com for more information.

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with Tetra Tech



If you would like to post a want add for Civil Engineering personnel or need for employment please contact Cody Goodwin by email at cgoodwin@alliance-ae.com or call 318-221-7501.

Protecting the Nation's Water Supply from Attack. Log on to www.asce.org for the full story. (Picture courtesy of ASCE)

Increasing ASCE's Political Involvement

ASCE National is considering the formation of a new 501(c)(6) organization and possibly a Political Action Committee (PAC). This action will give ASCE more flexibility in lobbying activities and permit direct involvement in political campaigns. ASCE has taken no action at this point and they are simply looking for feedback from members. They are very interested in our opinion at the Branch level. Please logon to <http://www.asce.org/govrel/politicalinvl.cfm> (you will need

your ASCE identification number and password) and read the information on Political Action Committee (PAC). We have also attached to this newsletter a "Point/Counterpoint" debate published on the Seattle Section of the ASCE to fuel our discussion.

It is a hot topic within ASCE. Please send any input you might have to Elba Hamilton at ehamilton@afjmc.com.

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"ASCE Shreveport News" is published ten times a year (August—May). Any suggestions or comments on the format or content are welcome. News on members, the Branch or the profession should be submitted to the Branch Secretary.

Thanks to Don Razinsky at Rigdways for printing, folding and distributing our newsletter for Free!