



MASS TRANSIT



THE OFFICIAL PUBLICATION OF THE UNIVERSITY OF MASSACHUSETTS AMHERST STUDENT CHAPTER
OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS

DECEMBER 2007

Will you be at Fenway?



Mark the date! On Friday, December 7th, 30 lucky members from ASCE will head to Boston to get a tour of the upcoming construction projects that will be happening at Fenway through 2009. The tour is scheduled for 3:00 pm and car pools will probably be leaving UMass around 12:45. The cost will be approximately \$5-10 for gas/Greenline fare. Interested members should email Mike Sullivan at mtsull@student.umass.edu. Attending students will be chosen based on seniority and previous completion of a chapter membership form. Underclassmen, please apply, you never know how many seniors won't be able to attend.

News and Information for December

Dine-to-Donate:

Hungry? Go to the Applebee's on Rt. 9 in Hadley on Tuesday, December 4th with the coupon attached to the end of this newsletter, and 15% of the proceeds from your dinner will go the Amherst Survival Center- a shelter in downtown Amherst. Eating for a good cause; the easiest thing you'll do all semester!



Available Positions:

- President: Represents the chapter, conducts meetings and chairs the design team.
- Vice-President: Chairs all community service and outreach activities.
- Treasurer: Collects dues and keeps the current budget/account.
- Corresponding Secretary: Contacts prospective speakers and keeps list of important contacts.
- Recording Secretary: Takes minutes and attendance at meetings. In charge of all chapter records.
- Publicity Officer: Responsible for creating the monthly Mass Transit Newsletter, bulletin boards and the chapter website.

LAST MEETING!

The final meeting of the semester will be on Wednesday, December 5th in Marston132 at 5pm. We will be testing/breaking the Balsa Wood Bridges and also holding officer elections for the upcoming year (Spring –Fall 2008). Any CEE students interested in being officers should email Jeff Seymour at jseymour@student.umass.edu, no later than Sunday, Dec. 2nd so that you can be included on the ballot. Write-ins will also be accepted on Dec. 5th, but it makes our lives easier if you're already on the ballot.

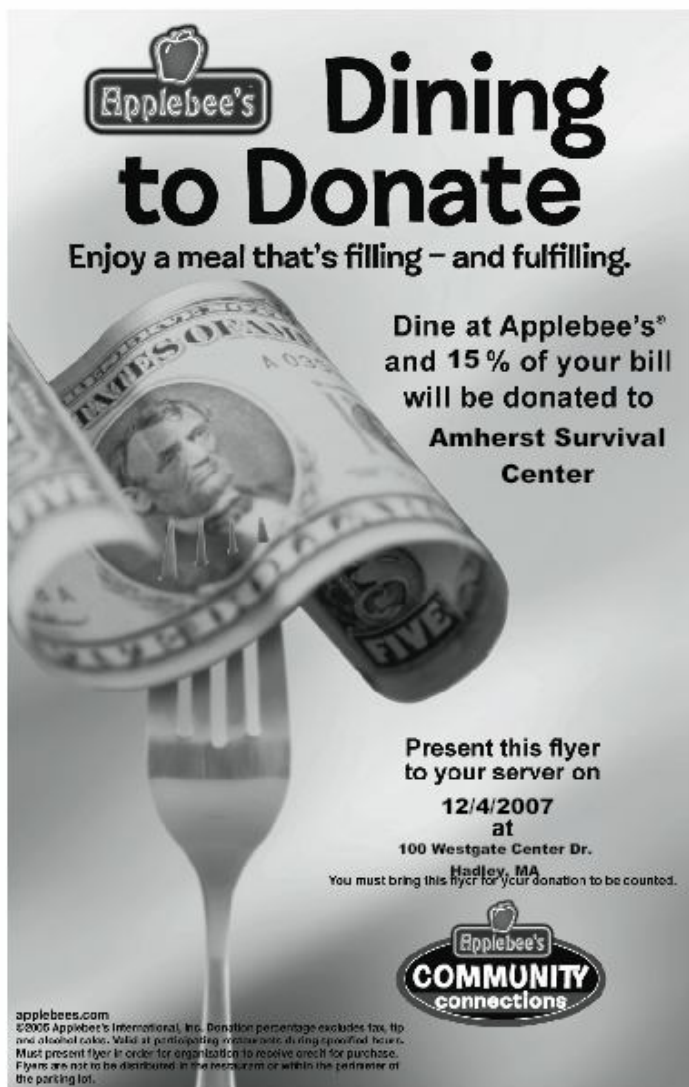
Holiday Clothing/Food Drive



ASCE is hosting a holiday clothing and food drive. Clothes, canned food donations and other non-perishable items can be dropped off in the boxes in Marston Hall or any of the other Engineering Buildings. Please don't forget others less fortunate this holiday season!

Cobble Mtn. Reservoir Lecture/Dinner

The Western Mass Branch of the Boston Society of Civil Engineers will be having a lecture/dinner on Tuesday, December 11th at Smith College. Dinner is only \$15 and will be on the damming of the Cobble Mtn. Reservoir, the highest hydraulic-filled earthen dam in the world. See the attached sheet at the end of this newsletter for more information. RSVP to George Costa at costace@verizon.net to reserve your spot. Let one of the officers know if you want to go and need a ride.




Applebee's Dining to Donate
Enjoy a meal that's filling – and fulfilling.

Dine at Applebee's® and 15% of your bill will be donated to Amherst Survival Center

Present this flyer to your server on 12/4/2007 at 100 Westgate Center Dr. Hadley, MA. You must bring this flyer for your donation to be counted.

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WESTERN MASSACHUSETTS BRANCH
American Society of Civil Engineers

**Rehabilitation of the Cobble Mountain Reservoir
Dam Diversion Tunnel Gate Chamber**

*James Constantino
Sr. Water Supply Supervisor
Springfield Water and
Sewer Commission*

*Neill Hampton, P.E.
Project Manager
Camp Dresser and McKee*

The Cobble Mountain Dam constructed in 1931 is one of the highest hydraulic filled earthen dam in the world. Rising 263-feet and holding 22.5 billion gallons, the reservoir provides drinking water to a population of approximately a quarter-million in Springfield and surrounding towns, including Agawam, East Longmeadow, Longmeadow, Ludlow, Southwick, Westfield, and West Springfield. In order to construct the dam a diversion tunnel was blasted through rock to divert the Little River flow around the dam construction site. Once the dam was constructed a shaft was bored to the tunnel and a high-pressure outlet works facility was constructed approximately 350-feet into the tunnel from the reservoir. Over time and due to its age and also vandalism the reliability of the outlet works facility had become a major concern and it became clear to the Springfield Water and Sewer Commission (SWSC) that the rehabilitation was needed.

In 2001, SWSC consulted with CDM to provide technical assistance in their efforts to rehabilitate, and make operational and reliable, the valves and appurtenances in the diversion tunnel gate chamber. Safely and cost-effectively plugging the upstream conduit to allow for replacement of the valves under 205-feet of static head became one of the most challenging aspects of the project. This challenge was solved ultimately through design and installation of a non-entry mechanical inflatable plugging system from the gate chamber (in the dry), through the valve and into the upstream conduit. The new jet-flow gates and rehabilitated guard valves were put into service in August 2006.

The presentation will focus on planning and construction of the rehabilitation project for the diversion tunnel high-head outlet works facility.

**Tuesday December 11, 2007
Faculty Center (Smith College Club)
51 College Lane Northampton MA
Smith College**

5:30 p.m. Registration/Cocktail Hour ▪ 6:30 p.m. Dinner ▪ 7:00 p.m. Program

Registration Cost: \$ 30 Members, Private Sector \$ 40 Non-Members, Private Sector
 \$ 20 Members, Public Sector \$ 25 Non-Members, Public Sector
 \$ 15 Students and Seniors

Dinner: A buffet selection will be offered.

For reservations, please contact: George Costa, at costace@verizon.net or telephone at (413) 755-4595.

Checks payable to "WMB-BSCES" and mailed to: COSTA CONSULTING ENGINEERS, INC. • P.O. Box 51493 • Springfield, MA 01151 or presented at the door on the day of the event. No shows will be billed.

Street parking is available on Route 9 and also at the Smith Parking Garage location located at 42 West Street (Route 66)

For Campus Map: <http://www.smith.edu/map/maplow.pdf>

All reservations must be received no later than MONDAY DECEMBER 3, 2007

The American Society of Civil Engineers

UMass Amherst Student Chapter MEMBERSHIP APPLICATION

The purpose of the University of Massachusetts Amherst student chapter of ASCE is to broaden students' skills in the field of civil engineering, to provide professional development, and as to provide a social network for civil engineering students. This is accomplished through various activities including design competitions like concrete canoe and steel bridge, as well as through social functions and guest lectures.

UMass Amherst ASCE membership is open to all UMass Amherst students, including graduate and undergraduate. Students in Civil Engineering, Architecture, Business and any others interested in civil engineering are especially encouraged to apply.

Benefits of membership include:

- *Chance to participate in ASCE national competitions such as concrete canoe and steel bridge
- *Opportunity to visit construction sites & talk with professions out in the field
- *Opportunity to attend lectures hosted by the Boston Society of Civil Engineers
- *Chance to win scholarship money
- *Chance to learn more about the civil engineering field

To join UMass Amherst ASCE, please complete the following information and return to the ASCE mailbox across from the CEE department office in Marston Hall along with your membership dues. Membership dues are \$10 for the school year 2007-2008. **New students are exempt from paying dues.** Please make check out to UMass Amherst ASCE.

Name: _____
Phone: _____
Email: _____
Major: _____ Expected Graduation: _____

Please contact any of the UMass Amherst ASCE officers if you have any questions.

President	Michael Sullivan	mtsull@student.umass.edu
Vice President	Shelby Zeigler	sjzeigle@student.umass.edu
Corresponding Secretary	Jeffrey Seymour	jseymour@student.umass.edu
Recording Secretary	Sam Gregorio	sgregori@student.umass.edu
Treasurer	Elena Janice	ejanice@student.umass.edu
Publicity Coordinator	Rob House	rhouse@student.umass.edu
Junior Liaison	Kimberly Rudy	krudy@student.umass.edu
Sophomore Liaison	Meg Krupka	mkrupka@student.umass.edu

For more information on UMass Amherst ASCE, please visit
<http://www.ecs.umass.edu/asce/>