

### President's Message

by Androush Danielians, D.Sc, P.E.,

Recently we sent out the list of incoming MLAB board member nominations and I am proud to announce the election by acclamation of the following individuals:



- President-Elect - Andy Duong, P.E.
- Vice President - Julia Moye, P.E.
- Treasurer - Steve Milewski (acting)
- Secretary - Julian Garcia, P.E.

Our incoming president, Serge Haddad, P.E., will be leading this vibrant group. With the exception of Andy, each board member for 2009-2010 come from our Younger Member Forum (YMF) group. I am particularly pleased to see that we have such an active group of younger members. The MLAB younger members have taken a very active role in the Branch, and have wonderful working relationships with our volunteers of all ages. The YMF has also benefited from Serge's involvement while YMF President and the years surrounding that service, and we expect even more positive interaction between the two groups.

It is imperative for any organization to have a large slice of their younger members to be actively involved to carry out the missions of the organization to meet the needs of its members as they grow within their professional life. However, it is equally important that a good cross section of the members within an organization be represented in its governing body. I cannot help but notice that there is a generation gap within the ranks of our board members. This generation gap is due to lack of availability of volunteers from other age groups to serve on the board as well as such quality individuals developing within YMF. It does make me wonder, however, if MLAB is taking the right approach in reaching out to inspire and serve each

### LA City High School Students Rank 9th and 17th at 2009 International Bridge Building Contest

by Julia Moye, P.E.

The 2009 International Bridge Building Contest was held at the Bellingham High School Campus in Bellingham, Washington on Saturday, April 25, 2009. Winners of the Los Angeles Regional Bridge Contest hosted by MLAB ASCE and the City of Los Angeles Bureau of Engineering competed in the International Contest.

Top two Regional winners Jonathan Portillo and Miguel Marmolejo from Los Angeles were given an opportunity to compete in the International Contest and for the chance to win 50% scholarships to pursue an education in engineering at the Illinois Institute of Technology, Chicago. Both students seized the opportunity to go to Bellingham and participate in the 2009 International Bridge Building Contest. Kesavan Korand, professional mentor for Robert Lewis High School together with Dr. Harald Holcomb, a Science teacher from Lewis High School, accompanied both students.

The rules and the specifications for the bridge building contest were developed by the 2009 International Bridge Building Committee. The bridge models were constructed from 3/32-inch



Jonathan Portillo testing his bridge

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*City of Los Angeles Regional Contest Representatives from Robert Lewis High School at the International Competition L to R: Kesavan Korand (BOE), Dr. Harald Holcomb (Teacher), Miguel Marmolejo (Student), Jonathan Portillo (Student)*



*Top ten winners on stage at International Competition (Los Angeles Regional Competition Representative Jonathan Portillo is the second student from the left as the 9th place winner)*

square cross-section basswood supplied by the bridge committee. The bridge models were to weigh less than 30 grams (i.e. approximately an ounce) and meet strict dimension criteria. The main objective of the contest is to determine which top placing regional student contestants are able to design, construct and test the most efficient bridge by strictly following the rules and specifications. Structural Efficiency (E) is calculated as:  $E = \text{Load carried by the bridge(g)} / \text{Bridge Mass (g)}$ .

The pre-event kicked-off at 5:00 p.m. on Friday, April 24, 2009 in the Bellingham High School auditorium. The Regional Coordinator, Mark Toney of Sehome High School, welcomed all the student participants, teachers, mentors and parents. Mr. Toney informed the audience that sixty-one (61) student contestants had officially registered for this event including two contestants from Indonesia and one from the Dominican Republic. Later that evening, Mr. Toney arranged for a Salmon dinner, cruise through the San Juan Islands, a nature talk on Island Caper. All of the participants greatly appreciated the cruise, tour, and social gathering.

On Saturday, April 25, 2009, the contest commenced at 9:00 a.m. at the Bellingham High School auditorium. Each individual bridge was evaluated by the judges for compliance with the rules and specifications. All but seven bridges qualified for the contest. Four Architectural Judges reviewed all the bridges to select three (3) best bridges for Architectural award (based

on aesthetic and structural design point of view). The First, Second, and the third Architectural awards went to Megan Schutt of Bearden High School, Knoxville, TN; Tanner Cranor of Del Sol High School, Las Vegas, NV; and John Hoover of Loyola Academy, Wilmette, IL respectively. The Structural Efficiency testing of the bridges commenced at 11:00 am and concluded around 1:00 pm. Two testing equipments with pre-set-up platforms were used to test all fifty four (54) bridges. The student contestants were allowed to use any one of the following three weight masses (25 lbs., 10 lbs. and 5 lbs.) to load their bridges.

In the category of efficiency, the first place winning bridge was that of Emily Baker from Riverdale High School, Portland. The bridge weighed 15.24 grams and held 115.0 pounds of weight, with a structural efficiency ratio of 3422.8. The first bridge tested from Robert Lewis High School (RLHS), took 9th place (weight of bridge = 25.55 grams, carried 145 pounds) for a structural efficiency ratio of 2574.2 and the second bridge from RLHS took 17th place (weight of bridge = 28.42 grams, carried 135.00 pounds) for a structural efficiency ratio of 2154.6.

MLAB's outreach program motivates, inspires, and educates new students each year for the Regional as well as the International Bridge Building Contest. It is a fun and challenging experience. Dr. Holcomb, a science teacher at Robert Lewis High School, and Kesavan Korand from

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the City of Los Angeles contributed further efforts while preparing the students for the International event. The students at the Robert Lewis High school campus are very proud of Dr. Harald Holcomb for taking Robert Lewis High School to the Los Angeles Regional as well as the International Bridge Building Competitions in the last four consecutive years.

Thanks go to the American Society of Civil Engineers (Metropolitan Los Angeles Branch), and local sponsoring organizations for their generous support for the 2009 Regional and as well as for the International Bridge Building Competition.

ASCE MLAB would like to thank the following sponsoring companies:

- Penco Engineering
- Marrs Services
- Vanir CM
- HDR
- AECOM
- ASCE SPAG Grant
- Cadstar, Inc.
- Black & Veatch
- Harris & Associates

### ASCE MLAB Forensic Technical Group Meeting

by Debanik Chaudhuri, Ph.D, P.E.

Professor Walsh gave a presentation on assessing the movements of residential floor slabs at our June meeting. The meeting was well-attended and involved a lot of discussion about this topic, as floor level surveys are tools that are often used in the forensic field. He spoke about research he and others have done to estimate how much movement occurred versus how "flat" a slab is built. He has developed a new methodology to assess how much movement has occurred using a population of floor slabs. He also discussed how many survey points are needed to adequately capture the maximum elevation difference of a floor slab. We look forward to seeing his journal article that will describe his new methodology in de-



Professor Ken Walsh

### MLAB YMF Updates

by Marlon Calderon, P.E.

MLAB YMF hosted their golf tournament at the Brookshire Golf Course in Pasadena on June 12th and would like to thank all the sponsors: Hatch Mott McDonald, Hilti, JL Patterson, and Psomas and participants that made it a great event. On June 25th they hosted their general membership meeting at the Castaway Restaurant in Burbank with notable guest speaker Sam Tanaka, P.E. Project Advisor for the Public Safety Bond Program in the City of Los Angeles, Bureau of Engineering.

A couple of items to keep in mind are the upcoming MLAB YMF registration deadline for the Fall P.E. Review Course and fiscal year 09/10 officer nominations. July 24th is the registration deadline for the MLAB YMF Fall P.E. Review Course scheduled to start on August 5th and meets on Mondays and Wednesdays from 6:30 PM – 9:30 PM in the Los Angeles City Department of Public Works Building in downtown L.A. Also, the 2008-2009 fiscal year is just around the corner and MLAB YMF will be accepting nominations for officer positions through August 4th. If you are, or know someone who would like to exercise their leadership skills, reach out to local communities, plan events, or enjoys working with other successful young engineers, please nominate them to be a part of the 2009-2010 MLAB YMF Board of Directors. For more information about these and other events please visit their website at [mlab-ymf.org](http://mlab-ymf.org).

## Air Transport Technical Group (ATTG) Los Angeles Section - Metropolitan Los Angeles Branch

by Charles Adams, P.E.

### March 17, 2009 Luncheon Presentation

*Speaker: Mr. Raymond Quesada, Bureau of Design and Construction, San Francisco International Airport*

Mr. Ray Quesada gave an overview of San Francisco International Airport. SFO is 2,383 acres on a 5,171 acre site, with 4 intersecting runways (ranging from 7,000 ft. to 11,870 ft.). The International Terminal is 2.5 million sq. ft., consisting of 24 gates and the Domestic Terminals are a total of 2.6 million sq. ft., with 56 gates. SFO has 4 public parking garages and a consolidated Rental Car Center. The airport has AirTrain service throughout the terminal areas, parking garages and Rental Car center and has a BART rapid transit station on site. Passenger traffic was 18.4 million enplanements with 343,000 aircraft operations in FY07/08

Mr. Quesada provided a summary of SFO's current and future projects. The Secure connector has been completed. This project created a walkway behind the TSA security checkpoints from Terminal 3 to International Boarding Area G without leaving the secure area of the terminals. This was the Airport's first project built as "Design Build". This project was very successful and completed on time and on budget.

Mr. Quesada is the Project Manager for Terminal 2/Boarding Area D Renovations. This will convert SFO's old International Terminal to domestic use and will increase gate capacity from 10 widebody gates to 14 narrow/widebody gates. This project will give Terminal 2 a new look both inside and out. This is also a "Design Build" program.

Mr. Quesada also provided information on some of their farther term projects. SFO will build a new FAA Airport Traffic Control Tower. They will replace the current Boarding Area B, currently served through Terminal 1. They will demolish the TWA building, relocate 3 Ramp Overnight Aircraft parking positions, build a new Aircraft Rescue and Firefighting station and new Security Checkpoint and realign McDonnell Road to provide 4 new Ramp Overnight Aircraft parking positions. Finally, SFO plans to redevelop Terminal 1 incorporating the new Boarding Area B.

Article provided by Lilith Terry, Director at Large, Air Transport Technical Group

### May 12, 2009 Luncheon Presentation

*Speaker: Mr. Dan Cohen-Nir, Programs Director, Safety and Technical Affairs, Airbus Americas Holdings, Inc., Washington, DC*

Our guest speaker was Dan Cohen-Nir from Airbus Americas Holdings and he discussed the superior aircraft characteristics of A380's as compared to other large bodied aircraft. He provided our members and guests with interesting information regarding the A380 aircraft characteristics, terminal compatibility, ground operations, the A380 entry into service and the outlook ahead.

Mr. Cohen-Nir stated that large aircraft demand represents 20% of total market for new aircraft and that 80% of all 747 traffic is concentrated into just 37 airports world-wide. He also said that the airline passenger traffic has doubled every fifteen years since 1969 and that the A380's are the most cost effective and environmentally responsive solution for the projected international growth patterns to 2019.

Mr Cohen-Nir's presentation indicated that the A380 can operate on any taxiway system that has been prepared for the 777-300 or A340-600 and therefore the A380 do not require any additional airfield upgrades for service. He also demonstrated that the A380 is the lowest cost solution for airport's sustainable growth. For example, the 747 has 400 seat passenger payload range of 7,100 nautical miles, whereas the A380 has a superior 525 seat passenger payload range of 8,200 nautical miles. Dan Cohen-Nir's presentation also informed us that the A380 outperforms other large bodied aircraft in areas such as emissions, fuel burn, noise and pavement loading. It was also interesting to learn that the superior take off / landing performance and maneuverability of the A380 allows this aircraft to land on almost any major airport without upgrades to the airfield.

Article provided by Craig Halvorson, Vice Chairperson, Air Transport Technical Group

## K-12 Student Outreach - The Future of Our Society

by Heren Molina

From the first moment I stepped foot into a classroom full of faces eager and excited to learn about engineering, I knew that I was embarking into an amazing journey. I will never forget all of those hands waiving desperately in the air waiting to be called-on because they had a question for our speaker, the laughter and voices screaming “this is the best day of my life” as students were constructing and designing a home for a pigeon, or even the words of wisdom from parents as they helped their kids build a catapult during a science fair. This is truly when the phrase “it’s the little things that matter” takes on a much deeper and stronger meaning.

This year we had the privilege to visit several elementary, middle and high schools around the Los Angeles County. From Career Days to Science Fairs, from 1st graders to high school seniors, MLAB in conjunction with MLAB YMF was determined to make this a successful student outreach year. As the school year comes



ducted were the Clover Elementary and Longfellow Elementary Curious George visits, The Cesar Chavez Commemoration Science Fair (Celebra La Ciencia/Celebrate Science), Beachy Elementary Career Day, YMF’s 16th Annual Popsicle Stick Bridge Contest, Adelante Mujer Latina Career Conference and the LA Trade Center – Sustainability Presentation, just to name a few.

As the current K-12 Student Outreach Coordinator, I learned many important things throughout my journey. Among those was that: 1. It is never



to an end, I can proudly say that the efforts of our volunteers paid off. Thanks to them, we were able to visit an average of 100 students per visit. Among the many visits we con-

ducted were the Clover Elementary and Longfellow Elementary Curious George visits, The Cesar Chavez Commemoration Science Fair (Celebra La Ciencia/Celebrate Science), Beachy Elementary Career Day, YMF’s 16th Annual Popsicle Stick Bridge Contest, Adelante Mujer Latina Career Conference and the LA Trade Center – Sustainability Presentation, just to name a few. As the current K-12 Student Outreach Coordinator, I learned many important things throughout my journey. Among those was that: 1. It is never too early or too late to expose students to engineering 2. That one should never underestimate a child’s ability or imagination and 3. (which is the most important) That we, civil engineers, are desperately needed by our future engineers. Our younger generations hold the success of our future civil engineering profession, but without us to guide them or to be their role models there might not be such a bright future ahead of us. So it’s up to us to make a difference and we can only do it if we work together.



Even though this school year has come to an end, please keep in mind that there is always next year. A lot was definitely learned and accomplished this year, and next year we promise to make it an even bigger, better and busier year. Keep an eye open for our next K-12 student outreach event and on behalf of the entire MLAB board, thanks to MLAB YMF, our volunteers, teachers and most importantly the students who made this a successful journey. Also, congratulations to the graduating class of 2009!

Are we prompting them to get involved in an organization that strives to bring prestige to our profession? We have one, if not the largest, branch in the country and one would expect to see a bigger pool of volunteers.

We do have several issues that may prevent one from serving on our board: lack of free time; geographic size of the County of Los Angeles (the Branch area), coupled with traffic that makes volunteering almost prohibitive; and goals of the organization that may not be parallel to members' personal or career goals. I still believe that many of us can overcome these and bring the right balance of effort versus value, but it is each of us who need to take that very first step and make the difference. I am open to, and would appreciate any ideas that you may have to inspire our members and to tell me what would bring value to your ASCE membership.

There is also a lot that goes in organizing our programs and the easiest way of getting involved, learning and networking with other civil engineering professionals is to attend programs and volunteer for outreach. The Branch has so many outlets for service, including students, government involvement, networking, report card development to name only a few. MLAB has been a great avenue for me personally to give back and grow, and I'm certain the same could be true for you.

ASCE 2009 Infrastructure Report Card for Los Angeles County

by Andy G. Duong, P.E., MLAB Vice President

The ASCE Los Angeles Section 2009 Infrastructure Report Card is an important and comprehensive assessment of the current condition of the Los Angeles County's infrastructure. The Report Card presents and illustrates the problems and difficulties that the County is facing in maintaining and/or improving its critical infrastructure system. The Report Card also highlights the areas of concern and the possible solutions to repair and/or to improve those areas of deficiencies.

ASCE Los Angeles Section, Metropolitan Los Angeles Branch (MLAB), and MLAB Younger Member Forum (MLAB YMF) have joined the effort on this important task. Several emails and phone calls have been made during the past

months to invite members to participate on the committees. The areas of infrastructure that believed are important to investigate including but not limited to:

- Bridges
- Dams
- Drinking Water
- Recycled Water
- Flood Control
- Parks
- Ports
- Solid Waste
- Street & Highways
- Transit
- Urban Runoff
- Wastewater System

At the local level, the 2009 Los Angeles County Infrastructure Report Card offers guidance to the county's leaders, city's leaders, council members, and our legislators about what are the needs to invest into our infrastructure system and where public works funds would be best spent to improve our overall quality of life.

City of LA BPW Commissioner Cardenas Speaks at April Luncheon

by Julia Moye, P.E., MLAB Secretary

On Thursday, April 9, 2009 the American Society of Civil Engineers (ASCE) Metropolitan Los Angeles Branch (MLAB) held one of its bi-monthly luncheons. Approximately 50 people came out to hear a presentation entitled "Foresight into City of Los Angeles Infrastructure Investment: The Stimulus Package and Upcoming Projects" by City of Los Angeles Board of Public Works (BPW) Commissioner Cardenas.

Before the attentive crowd at the Omni Hotel in Downtown Los Angeles, Commissioner Cardenas focused his presentation on the Board of Public Works, infrastructure projects, consulting and contracting opportunities, the stimulus package, and insights on being an engineer in Politics. Among the Bureau of Engineering (BOE) projects highlighted were the Police Administration Building, LA Zoo Pachyderm Forest Exhibit, and the First Street Viaduct. In addition, the Commissioner discussed initiatives

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throughout the Department of Public Works including upcoming BOE construction projects, LED and solar street lights, and maintenance of the City's street system.

The Commissioner concluded his presentation by discussing the stimulus package and providing insights on being an engineer in politics. He shared the most up-to-date information on the stimulus package and stressed the City's efforts to be transparent and forthcoming regarding its use of stimulus funds. He informed the audience that the City's Information Technology Agency would create and post a website regarding the stimulus package by Tuesday, April 14. Finally, the Commissioner expressed his encouragement for more engineers to get involved in politics and run for political office. The Commissioner believes that engineers bring unique problem solving skills and insight to the political process and that these skills are a needed and valuable asset.

The luncheon concluded with celebration as City of Los Angeles City Engineer Gary Lee Moore accepted a certificate from ASCE's Committee on Younger Members (CYM) recognizing the City of Los Angeles, Bureau of Engineering for Encouragement and Exemplary Support of Younger Member Involvement in ASCE Activities. BOE won the award for the third consecutive year. Each year, these certificates are awarded through the CYM and signed personally by the current National ASCE President, this year Wayne Klotz. Julia Moye, MLAB Secretary and one of BOE's Council/Board Liaisons, nominated BOE for this prestigious award. MLAB was honored to recognize an employer that makes a conscience and consistent effort to encourage its younger members in their career and personal development.

ASCE MLAB wants to thank the City of Los Angeles in general and especially City Engineer Gary Lee Moore for providing the personnel to get engaged in this program and for partnering with ASCE to make this program happen which promotes civil engineering among high school students.



*City of Los Angeles Board of Public Works  
Commissioner Cardenas*



*City of Los Angeles City Engineer Gary Lee Moore  
accepted a certificate from MLAB President  
Androush Danielians*



*MLAB President Androush Danielians, Los Angeles  
City Engineer Gary Lee Moore and MLAB  
Secretary Julia Moye*

**Pacific Southwest Regional Conference**

by Karen Sepulveda

The Pacific Southwest Regional Conference (PSWRC) consists of over a dozen engineering challenges for our students who gather each spring to demonstrate their competition prowess and application of concepts and theories. Of the seventeen schools in the region, each will take a turn hosting this massive event of coordinating events, people, locations, insurance requirements, banquets and overall logistics. Occasionally there is a school skipped in the rotation because the demand of resources is so high and the school's ability to host can't accommodate.

For this reason, the University of Hawaii at Manoa (UofH) moved a couple of years forward in rotation and hosted the PSWRC for 2009. They were wonderful hosts and well organized.



*Students from UCLA participate in the Survey Competition*

It is always encouraged for the host school to infuse their culture into the conference, and UofH did a better job of this than any school I have

seen. The setting for the conference banquet was an overlook to the Pacific Ocean, under the stars and with local Hawaiian entertainment for well over 700 students. Among the other attendees were several folks from the Metropolitan Los Angeles Branch.



*USC constructs their steel bridge*

Heren Molina (K-12 Chair), Julian Garcia (Government Affairs Chair) and George

Huang (Student Activities Chair) all served as either loading or construction judges for the bridge competition. They were invaluable in experience and willingness to serve, and I want to personally thank them for flying over this year.



*A regional school loads their bridge with 2500 pounds of steel*

My presence was requested by the conference to serve as Regional Head Judge for the Steel Bridge competition, much to my cha-

grin, as I was over five months pregnant with twins at the time. Of all the years Hawaii had to host, it was the year the least likely to provide a



*USC competed in the Concrete Canoe Competition*

beautiful tropical vacation sunning on the beach or at the pool, beverage and book in hand. So I stuck to business and grimaced!

Not too much grimacing was required, however, as I find the steel bridge competition probably



*Windy conditions make for tough rowing*

more exciting than most trips I would take and the students at the UofH were exceptionally prepared. I merely had to fly over, meet with the student teams and wait for the dreaded time where I would be required to make a call that would either disqualify a school from the competition or keep them in it based upon the national rules. For those of you familiar with the competition, it is thrilling and heartbreaking at the same time to see a bridge fail. Part of you is so interested in what caused the



*One of many competitive heats for the Concrete Canoe Competition*

failure. Was it a weld or a poor connection? Was it due to sway or bending stresses? The other part of you feels so much for the students who have spent six months or more of their lives dreaming of a design and fabricating it to reality.

As with any competition, however, there are those who take home the prize and the collective takes home the experiences and terrific memories of teamwork, sweat and sometimes blood. Of the bridge winners, one came from the Los Angeles Section, Cal Poly San Luis Obispo, in third place. The first place winner was UofH and the third was University of California, San Diego.

The biggest prize at the PSWRC, however, is the overall conference title. This year, Cal Poly San Luis Obispo won this honor and a great amount

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of congratulations should be given to them. They did this by competing and doing well overall in not only the steel bridge, but in events such as the concrete canoe, survey, environmental and many others. Also important to mention is that Cal Poly San Luis Obispo also garnished a greater honor this year, the coveted Robert Ridgeway Award. This is a Society award giv-

en to the most outstanding student chapter in the country!

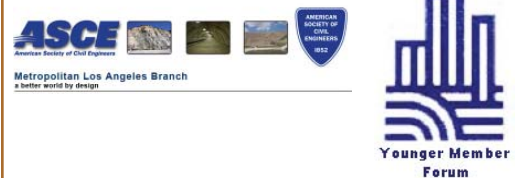
The students of the five chapters of the Metropolitan Los Angeles Branch should also be proud as they competed well and represented us with great sportsman-like behavior. Maybe even next year we'll see one of them win the PSWRC title!

*Save the Date*

**MLAB Installation Dinner**

**Tom Bradley Room in the City Hall - October 8th**

Thursday, October 8th will be the MLAB Installation Dinner in the Tom Bradley Room in the Los Angeles City Hall. The reception and dinner will take place between 5 pm to 9 pm. Stay tune for more information will follow.



**The Metropolitan Los Angeles Branch  
Government Affairs Committee**

**Presents a one-day seminar**



**Engineers and Politics:**

**Workshops Empowering  
Engineering Advocates**

Scheduled for August 29, 2009  
Omni Los Angeles Hotel at California Plaza

Formal Invitation and Registration to Follow

Any Questions? Please contact Philip Johnson  
at (213) 400-4017  
or via email at [pdavidj@gmail.com](mailto:pdavidj@gmail.com)



Metropolitan  
Los Angeles  
Branch



The Metropolitan Los Angeles Branch is looking for interested members to serve on the following Committees:

- |   |                                     |   |   |
|---|-------------------------------------|---|---|
| <input type="checkbox"/> Awards                     | <input type="checkbox"/> Membership | <input type="checkbox"/> Programs           | <input type="checkbox"/> Student Activities |
| <input type="checkbox"/> Government Affairs         | <input type="checkbox"/> Newsletter | <input type="checkbox"/> Public information | <input type="checkbox"/> Technical Groups   |
| <input type="checkbox"/> Infrastructure Report Card |                                     |   |   |

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If you are interested in serving on a Metropolitan Los Angeles Branch committee, please check the appropriate box, fill in necessary information below, and return to:

**Androush Danielians, President, MLAB**

Work: 213-330-7211 Fax: 213-330-7201 E-mail: [Androush.Danielians@AECOM.com](mailto:Androush.Danielians@AECOM.com)

### Calendar of Upcoming Events

#### August 2009

29 Engineers and Politics: Workshop Empowering Engineering Advocates  
Omni Los Angeles Hotel at California Plaza, Los Angeles, CA

#### October 2009

8 ASCE Los Angeles Section Annual Meeting, Installation of  
Officers & Awards Dinner

### Newsletter Information

*Please send articles or advertising information to the editor*

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#### **JOIN OUR E-MAIL LIST!**

*Keep up to date with all the current events and announcements. Join our e-mail list. Please contact our membership chair for details.*

#### **We're on the Web!**

See us at:  
[www.ascemlab.org](http://www.ascemlab.org)

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American Society  
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Metropolitan

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## Membership Information

National Membership Rates (Please verify rates and grades at <http://www.asce.org/membership>).

<b>Student:</b>	Free
<b>Associate Member:</b>	\$50 year of baccalaureate degree and first year after, then incremental increase to \$180 over five years
<b>Member:</b>	\$180 annually
<b>Affiliate Member:</b>	\$180 annually
<b>Fellow:</b>	\$215 annually
<b>Section (Branch) Dues:</b>	\$45/year

(1) National ASCE Student Membership is FREE! Contact your Student Chapter leaders or Faculty Advisor for additional information.

(2) Online membership renewal available, go to [www.asce.org/renewal](http://www.asce.org/renewal). For non-members, dues for MLAB Newsletter only \$45/year.

Please contact the Membership Chair for application forms, change of address and additional information. To update your information online, go to [www.asce.org/myprofile](http://www.asce.org/myprofile).

For questions on national ASCE membership contact [member@asce.org](mailto:member@asce.org).

## Advertising Rates

All advertising fees fund Branch Student Scholarships.

### **Business Card:**

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-Scanned business cards may be e-mailed to the editor at: [andy.g.duong@hdtinc.com](mailto:andy.g.duong@hdtinc.com).

-Cards are due by the 15th of each month.

-Please send all checks (made payable to "ASCE Metropolitan Los Angeles Branch") to the Branch Newsletter Editor.

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