



**NEVADA SOCIETY
OF
PROFESSIONAL
ENGINEERS**

Southern Nevada Chapter
Las Vegas, Nevada
www.nspenv.org

Meeting Notice and Newsletter

April 2009

April Luncheon Notice:

We are pleased to announce this month's guest speaker is Mr. Andy Hoover, who will be speaking about his Pearl Harbor Experience. The meeting will be held on Tuesday, April 21, 2009 at Lawry's Prime Rib at 4043 Howard Hughes Parkway.

Mr. Hoover, now a Las Vegas resident, was born in Minnesota in 1922. He joined the Navy in February 1940 and was discharged in January 1944 as a First Class Petty Officer. Prior to WWII, he was on the USS Astoria and onboard the USS Pennsylvania during the attack on Pearl Harbor.

At the time of the Japanese attack on Pearl Harbor, December 7, 1941, the USS *Pennsylvania* was in drydock in the Pearl Harbor Navy Yard. She was one of the first ships in the harbor to open fire as enemy dive bombers and torpedo planes roared out of the high overcast. The USS *Pennsylvania* had 15 men killed (including her executive officer), 14 missing in action, and 38 wounded. The attack on Pearl Harbor took the lives of 2,402 U.S. military men and women and left 1,282 others injured, sank four U.S. Navy battleships (two of which were raised and returned to service late in the war) and damaged four more. The attack also sank or damaged three cruisers, three destroyers, and one minelayer, and destroyed 188 aircraft.



The lunch will be held from 11:30 A.M. to 1:00 P.M. and the cost is \$25.00 for those who RSVP before 12:00 P.M. on Friday, April 17, 2009 and \$27.00 for those who register thereafter. If you would like to attend the April luncheon, please RSVP on the NSPE website <http://www.nspenv.org/south/lunch-rsvp.html> or contact Brook Demitropoulos at (702) 804-2042.

April Luncheon Sponsor:



MWH
BUILDING A BETTER WORLD

West Charleston Boulevard, Suite 100A
Las Vegas, NV 89102

Phone: (702)878-8010 Fax: (702) 878-7833
www.mwhglobal.com

Calendar of Events:

Date	Activity / Location	Time
Tuesday 4/21/09	NSPE Monthly Luncheon Speaker Mr. Andy Hoover	11:30 AM
Friday 4/24/09	PE Exam at the Stan Fulton Building (UNLV) and the Reynolds Boy Scout Center	8:00 AM
Tuesday 5/19/09	NSPE Monthly Luncheon	11:30 AM

Thank You To Tim McCoy and G.C. Wallace for sponsoring the March luncheon. The NSPE Southern Nevada Chapter and our Officers are grateful to all the local companies like G.C. Wallace who continue to support NSPE efforts. If your company is interested in being a sponsor in 2009, please contact Allen Pavelka at apavelka@co.clark.nv.us.

In This Newsletter:

News and Updates.....Page 2
 Future City Announcements.....Page 2
 NSPE Officers and Foundation Members.....Page 3
 NWEA 2009 Annual Conference.....Page 4



News & Updates:

- **NSPE Elections:** Southern Nevada board elections are coming up in June. If you would like to nominate a candidate, including yourself, please notify someone on the election committee:

Allen Pavelka, apavelka@co.clark.nv.us,
Dr. David James, drdavej@unlv.nevada.edu

- **Save the Date:** There will be an NSPE workshop with Dale Walsh on Industrial Hygiene Safety coming up the last week of May. More information will be coming soon.

Future City Volunteers Needed:



Greetings from 2009-2010 Future City!

For those of you not familiar, every January the National Engineers Week Future City Competition introduces 7th and 8th graders to the wide world of engineering. This year's focus is on sustainability and they'll blow you away with how much they learn. It's a wonderful event and it's so rewarding to see the excitement on the kids faces! We are starting to prepare for the 11th Annual Las Vegas Region competition, and we have several openings on the committee. If you are interested getting involved by joining the committee, helping out the day of competition or if you have any questions, please contact Olivia Furlan at OFurlan@brwncald.com, (702) 266-8086 or Signa Gundlach at Signa.Gundlach@apingspreserve.org, (702) 822-7748.

Thanks so much for helping us introduce engineering to the next generation.

Future City National Award:

The American Institute of Aeronautics and Astronautics (AIAA) – National Capital Section (NCS), made a Special Award for the Best Use of Aerospace Technology to the team from Las Vegas' Alexander Dawson School for their Future City, Alpha Luna Prime.

Entire article follows...

Best Use of Aerospace Technology, sponsored by The American Institute of Aeronautics and Astronautics (AIAA) – National Capital Section (NCS):
(By Bruce Cranford)

WASHINGTON, D.C., February 18, 2009 – A city of the future – The American Institute of Aeronautics and Astronautics (AIAA) – National Capital Section (NCS), made a Special Award for the Best Use of Aerospace Technology to the team from the Alexander Dawson School, Las Vegas, Nevada Region, Future City Name: Alpha Luna Prime, team members Michael Kwok, Zachary Schaffer, and Dayne Fernandez, Teacher was Camille McCue, Engineer Mentor Dr. David James, PE. The AIAA NCS congratulates the team for their outstanding efforts.

Ed Yarbrough, Chair of the NCS AIAA, and Bruce Cranford made the presentation at the awards luncheon. The Awards consisted of a savings bond for each student team member, and a plaque highlighting the award for each member of the team. The AIAA NCS judges for the Best Use of Aerospace Engineering were Hugo Kruesi, Technical Principal, Aerojet Corporation and Joe Pelton, George Washington University.

Teams from 38 middle schools nationwide, winners of regional competitions in January participated in the Future City National Finals, February 14-18 at the Hyatt Regency Capitol Hill in Washington, D.C. All regional winning teams received an all-expense-paid trip to Washington for the National Finals. Future City is sponsored in part by Engineers Week, February 14-18, a consortium of more than 100 engineering societies and major corporations. For more information and a list of all the winners, visit <http://www.futurecity.org/>

Future City, in its 17th year, asks middle school students to create cities of the future, first on computer and then in large tabletop models. Working in teams with a teacher and volunteer engineer mentor, students create their cities using the SimCity 3000 TM video game donated to all participating schools by Electronic Arts, Inc. of Redwood City, California. They write a city abstract and an essay on using engineering to solve an important social. Then they present and defend their cities before engineer judges at the competition. More than 30,000 students from over 1,000 schools participated in 2008-09.

The students created detailed – often fantastic – cities of tomorrow that give intriguing insights to how young minds envision their future. At the same time, their bold designs and innovative concepts provide a refreshingly optimistic appreciation of how our nation can realistically deal with the many challenges facing its cities, including environmental disasters, crime, urban decay and urban sprawl.

Continued on next page...



Giving young people a glimpse into engineering is a key goal of Future City, says Carol Rieg, the program's past National Director. "Using SimCity and building the models are what catch the students' attention," says Rieg, who helped create the program. "Then they blossom into other aspects of Future City – why engineering is important, the need to plan, the challenges and responsibilities of running a city. They use what they know to solve real world problems and make the program their own."



2009 Future City Best Use of Aerospace Engineering award winners "The Alexander Dawson School, Las Vegas, Nevada Region, Future City Name: Alpha Luna Prime" presented by Bruce Cranford and Ed Yarbrough NCS Chair



2009 AIAA NCS Best Use of Aerospace Technology Award, Engineer Mentor Dr. David James, PE., Team members Michael Kwok, Zachary Schaffer, and Dayne Fernandez, Teacher Camille McCue

2008-2009 Chapter Officers:

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association



NWEA Meetings & Events 04/14/2009 - NWEA 2009 Annual Conference

NWEA 2009 Annual Conference
April 14th - 16th
[South Point Hotel Casino & Spa](#)
[Las Vegas, Nevada](#)

It's time again for the NWEA annual conference! This year, the Nevada Water Environment Association is hosting its Annual Conference on April 14-16, 2009, at the South Point Casino, Hotel and Spa in Las Vegas, Nevada. The NWEA Annual Conference brings together wastewater professionals from throughout Nevada and the West, providing an excellent opportunity for networking, education and exchange of ideas. Hope to see everyone there.

Discounted room rates for the NWEA conference are available at the South Point Hotel and Casino & Spa.

If you are interested in becoming a vendor at this event please contact Tom Rura at urat@cityofnorthlasvegas.com.

NWEA 2009 Conference Presenter Schedule attached.

NWEA 2009 Conference - "Go with the Flow"
April 14-16

Date	Time Slot	Description	Session Chair	Lead Author	Title of Paper
4/14/2009	8:00 am - 5:00 pm	104g Circuit Rider pump class	Paul Krauth	Krauth, Paul	-
	8:00 am - 10:00 am	Collections Infrastructure Planning and Construction	Jake Jacobson	Atwood, Denis	A Systematic Approach to Route Selection
				Callahan, Keli	Keeping Pace with the Las Vegas Strip, Design and Construction of Large Diameter Interceptors
				Christiansen, Scott	Getting from Here to There - A Pipe Route Selection Process
	8:00 am - 10:00 am	Advanced Contaminant Removal and Disinfection	Bill Shepherd	Drury, Doug	Designing Treatment Plants for Reliable Phosphorous Removal
				Gerrity, Daniel	Novel AOPs for the degradation of trace organic contaminants and microbial inactivation
				Scoble, Jason	Do Side Streams Really Count
				Wert, Eric	Application of Ozone for Contaminant Oxidation in Wastewater
	10:15 am - 12:00 pm	Collections Safety	Jake Jacobson	Bannen, John	Status of Safety in the Wastewater Industry
	10:15 am - 12:00 pm	Project Delivery	Leslie Long	Brown, Jay	Construction Management at Risk Delivery Methods in Nevada
				Devlin, Jim	SCOP Project Delivery Method
				Jensen, Marcus	Project Delivery Contracting Alternatives
	10:15 am - 12:00 pm	Membrane Processes	Greg Turner	Caothien, Scott	Membrane Technologies Increase the Value of Wastewater by Recycling
				Carr Portillo, Mary	Membranes 101
				Hoyle, Julian	North Las Vegas New Membrane Bioreactor (MBR) Reclamation Facility – Choosing and Applying Control
				Risso, Leanna	Membrane Technology vs. Dual Media Sand Filters: A Water Quality Comparison
	1:00 pm - 3:00 pm	Collections Flow Monitoring	Jake Jacobson	Baker, Dave	Open Channel Flow Monitoring – Methodologies and Advancement in Technology
	1:00 pm - 3:00 pm	Wastewater Recycling and Reuse	Mary Carr Portillo	Cook, Katie	UV Disinfection as Part of a State of the Art Sewage Treatment and Water Reuse facility
Goldwasser, Sean				Regional Goal Setting for Water Recycling	
Mills, Rick				Easy - Locate to Where the Water is Needed!!	

Date	Time Slot	Description	Session Chair	Lead Author	Title of Paper	
	3:15 pm - 5:00 pm	Nonpoint Sources Session	Angela MacKinnon	Lawson, Cliff	The Stormwater Program – What is it ALL about?	
				Eubanks, Kevin	LVV MS4 program development, EPA Audit response	
Svetich, Terri				How Much LID is Enough?		
Bolton, Chris				Stormwater Sampling In Las Vegas Valley – From Rainfall Monitoring To Stormwater Sampling		
	3:15 pm - 5:00 pm	Collections - Condition Assessment - Part 1	Jake Jacobson	Ratliff, Allison	-	
4/15/2009	7:00 am - 10:00 am	YP breakfast and Careers Panel	Hannah Wilner	Batista, Jaci; Lykens, Ken; Orphan, Lynn; Solvie, John; Wilner, Hannah	-	
	8:45 am - 5:00 pm	Grade III/IV Operator training	Paul Krauth	Krauth, Paul	-	
	8:45 am - 10:00 am	Collections - Lift Stations	Jake Jacobson	Capo, Shelby	Design and operation of Lift Stations	
	9:30 am - 12:00 pm	SCOP/Lake Mead	Lynn Orphan	9:30-10:15 Bazel, Larry	Will All Stormwater Permits Soon Have Numeric Effluents Limits?	
				9:30-10:15 Schiefer, Scott	What are we Discharging?	
				10:30-12:00 Cooke, Jay	Systems Conveyance and Operations Program Boulder Islands Outfall System	
				10:30-12:00 Abusaba, Kahlil	Dilute, Divert and Dry-Up: The Las Vegas Wash Selenium Management Plan	
				10:30-12:00 Zegers, Ronald	Las Vegas Valley Watershed Advisory Committee's Regional Water Quality	
	10:15 am - 12:00 pm	Advanced Wastewater Treatment	Margaret Regan	Analla, Howard	BNR Process Control - It's Easy, Trust Me!!	
				Begum, Shamim	Impacts of Denitrification on Biological Phosphorus Removal	
				Peterson, Kirk	Nevada's First Membrane Bio-Reactor (MBR) Facility	
				Watson, Bernie	Energy Savings through Efficient Aeration Controls	
		10:30 am - 12:00 pm	Collections - Condition Assessment - Part II	Jake Jacobson	Ratliff, Allison	-
		1:00 pm - 3:00 pm	Collections - Force Mains	Jake Jacobson	Villalobos, Jose	Force Mains, the Sleeping Giant and Concrete Corrosion in Wetwells and MH's
	1:00 pm - 3:00 pm	Asset Management & Data-driven Decisions	Nancy Campbell	Brumley, John	SCOP Financing	
Campbell, Nancy				Data Framework- Building the Foundation for Data-Driven Decisions		
LaRance, Dana				Report Development Implementation and Use		
Okamura, Kyle				High Level Asset Risk Assessment, or How to Help your Director Sleep Better at Night		

Date	Time Slot	Description	Session Chair	Lead Author	Title of Paper
	1:00 pm - 3:00 pm	Sustainability	Dave James	Batista, Jaci	A Dynamic Model for Water Sustainability in the Las Vegas Valley
				Peterson, Kirk	Advanced Integrated Pond System (AIPS) and Energy Savings
				Voss, Guy	Creating Sustainable Solutions to Water and Energy Challenges
	3:15 pm - 5:00 pm	Asset Management Round Table	Nancy Campbell	Campbell + speakers	-