

Jan. 2011

Happy New Year to All!!!

Los Angeles Section

Monthly: Est. 1913

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PRESIDENT'S MESSAGE

Greg Heiertz, P.E.
Los Angeles Section President

Hoover Dam 75th Anniversary



"Entrusted by society to create a sustainable world and enhance the global quality of life, civil engineers serve competently, collaboratively, and ethically as master: planners, designers, constructors, and operators of society's economic and social engine—the built environment." ASCE Vision 2025

As part of the ASCE Annual Civil Engineering Conference in Las Vegas last October, I had the opportunity to attend the Hoover Dam 75th Anniversary History Symposium along with several other members of the Los Angeles Section. The symposium was sponsored and organized by the ASCE History and Heritage Committee and featured presentations by 15 architects, historians, and engineers on the design and construction of the dam and its influence on the civil engineering profession.

Hoover Dam is arguably the greatest single element of the built environment responsible for the growth and prosperity of the American southwest. The project was the "economic and social engine" that allowed the agricultural and urban development of southern California. The dam can store up to two years flow on the Colorado River. This water is used to supply the urban needs of 15 million people, most of who live in southern California. It also irrigates over a million acres of agriculture in California, Arizona, and Mexico. The 4 billion kilowatt hours of green electricity generated by the dam's two powerhouses provides power to over a million people in three states. Sale of this electricity repaid the initial project costs in 1987. ASCE has estimated that Hoover Dam provides over \$1 billion in annual economic benefit to residents of the southwestern US from an original investment of about \$49 million.

Hoover Dam is also an iconic civil engineering achievement. When it was first constructed it set numerous dam building records. When it was finished in 1935 it was the tallest dam in the world. The Hoover Dam power plant was the largest hydroelectric producer in the world until it was supplanted by Grand Coulee in 1948. ASCE named Hoover Dam one of the Seven Wonders of the Modern World in 1955. In 1985 the dam was named a Historic Civil Engineering Landmark. The Department of the Interior has designated it a National Historic Landmark. ASCE also recognized the project as part of its Monuments of the Millennium in 2000. When President Franklin Roosevelt dedicated the dam in 1935 he noted that, "The transformation wrought here in these years is a twentieth century marvel. This is an engineering victory of the first order...another great achievement of American resourcefulness, American skill and determination."

There were thousands of men and women behind that achievement. Over 16,000 people worked on the project, as many as 5,000 at a time. The project's construction contractor, Six Companies, Inc. was actually made up of eight regional construction firms, several of which would go on to dominate the international market in heavy construction for the rest of the twentieth century. The project could never have been attempted without the participation of skilled and visionary civil engineers. Although hundreds of engineers participated

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Inspirations on a New Year

The new year brings with it a breath of fresh air. Here at your Los Angeles Section, about a quarter of the Fiscal Year is over. There are two significant events that we all need to be aware of.

Engineering Week is coming in February. During that last week of the month a few of us will be participating in events not only to promote our profession, but to attract those who may be contemplating this profession. Engineering is one of the best careers to go into in the next few years and as many of us will be retiring soon, greater opportunities abound. We have fallen behind a number of nations regarding Science and Math. However, realization of that fact should not discourage us to not go into Science and Math. I think, we should encourage more of our children and youth to go into this profession because we have fallen behind other nations. We need to be sustainable!

What better way to inspire others as well by going to and inviting others to go to the Life Member Brunch in March. We will be honoring our Life Members at that event not only to celebrate what they have accomplished, but to ensure that their lives serve as a model for others [like me] to follow. Truly a not to miss event.

We also celebrate in this issue the life of William F. Hoey, AICP, PE. Bill was a practitioner and academic whose love for the profession never ceased.

Finally, we feature the Biographical and Vision Statement of Greg DiLoreto, P.E., P.L.S., F.ASCE as the declared nominee for ASCE President-elect. Greg is the CEO of the Tualatin Valley Water District in the Oregon area.

We strive to be a good source of information for our Section members. Please keep those articles coming this new year.

Have a safe New Year to all of you!!!

- Dr. Cris B. Liban, P.E.

Reminder:

Copy deadline for the Feb. 2011 issue is Jan. 1, 2011; copy deadline for March 2011 issue is Feb. 1, 2011.

ASCE's 2011 Member-Get-A-Member Drive Depends on You!

Greg DiLoreto, P.E., P.L.S., F. ASCE Vision Statement



As a member of the American Society of Civil Engineers for 35 years I have enjoyed the opportunity ASCE has provided me to assist in the advancement of our profession. Based on a long list of activities in ASCE, it has always been my hope that I have contributed some small part to ensuring the continuation and success of the civil engineering profession. It is with that thought that I am firmly committed to continuing these endeavors and provide an opportunity for those members that follow to

contribute to ASCE. The thoughts of former President John F. Kennedy's statement made in his inauguration speech of January 1961 were never truer in these tough economic times. It is not what ASCE can do for you, and what benefits it can provide you, it is clearly what skills and talents you can provide to enhance our profession and achieve the ultimate goal of civil engineers in protecting the health, safety and welfare of the public we serve. To that end my vision is to continue the work of my predecessors in three key areas:

Infrastructure: I have spent 17 years of my career as a city engineer and public works director, and for the last 11 years as a CEO of a publicly owned water utility. For those 28 years I have been the owner of the infrastructure, which has consisted of water pipes, reservoirs and water treatment plants, sanitary sewer lines and wastewater treatment plants, streets, parks, and storm and surface water facilities. As the owner I have observed firsthand the requirements for adequate funding to maintain our infrastructure. I am proud to say that I have been successful in working with elected officials in ensuring that adequate funds are available. Locally, elected officials have adopted necessary rate increases every time I have recommended they were needed. I have testified numerous times before state legislators on the importance of infrastructure funding and was involved in every successful increase in Oregon's gas tax from 1985 to 1991. It is important to recognize that most of America's infrastructure is owned by local governments, not our Federal Government nor our state governments. I fully support President Kathy Caldwell's initiative to increase ASCE's local government efforts in providing our membership with the tools they need to successfully educate our local government officials.

Sustainability: The Tualatin Valley Water District, of which I am the Chief Executive Officer, is considered to be a leader in this area. Our headquarters building was one of the first in Oregon to achieve LEED certification. TVWD has received a number of awards for our efforts to incorporate sustainability into the operations of the utility. Our commitment to sustainability has been cited by job applicants as one of the most important reasons that they are considering a position with TVWD. Using the Triple Bottom Line, TVWD has incorporated sustainability into everything we do, from the ranking of our capital improvement projects to the performance review of our employees. A recent article in the Harvard Business Review, titled "Sustainability Imperative" by David Lubin & Daniel Esty, refers to this integration of sustainability into our business models as the next "megatrend"

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William F. Hoey, AICP, PE

September 25, 1930- October 10, 2010

Bill lost his 2-year battle with prostate cancer on October 10, 2010.

He was born in Providence, Rhode Island and received his Bachelor of Science from Massachusetts Institute of Technology in 1952 followed by a Master in City Planning from Harvard University in 1958.

Bill worked for Wilbur Smith and Associates from 1962-1979. He taught at California State Polytechnic at Pomona 1979-1997, most of the time in the Civil Engineering Department. He retired as "Professor Emeritus" but continued teaching part-time 1997-1999.

His 30 years' experience in transportation and transportation engineering was mainly related to public transportation systems.

His additional professional activities included officer of Orange County, California Branch American Society of Civil Engineers, 1988-1992, Branch President 1991-1992.

He was also a member of the Orange County Historical Commission from 1986-1999. In retirement he continued to be active in the community as a member of the Roseville, California City Transportation Commission until his death.

His wife Anita survives Bill. A private memorial was held for family members.

A Great Idea From the Life Members

The ASCE Life Members' Public Image Committee request that members take their (to be discarded) Civil Engineering magazines to their doctor's office or barber shop and merge them with the stack of magazines. We feel that this will be an effective way to make the general public more aware of what civil engineers do.

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L.A. Section web site at:
www.ascelasection.org

PRESIDENT'S MESSAGE

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in the design and construction of the project, three names are commonly associated with it by history. William Mulholland, third President of the Los Angeles Section of ASCE, was an early proponent of the project and an ironic victim of the technology developed to build it. Walker R. Young was the clever and skillful government engineer for the Bureau of Reclamation who guided the project to completion. Francis T. Crowe was the relentless General Superintendent for Six Companies who pushed the job forward to completion on time and under budget. All three men were members of ASCE.

Although William Mulholland was never involved in the design or construction of Hoover Dam, his advocacy of what was then called the Boulder Canyon Project was instrumental in building support for the project. As Chief Engineer of the Los Angeles Bureau of Water Works and Supply, Mulholland saw Hoover Dam as essential to the success of his Colorado River aqueduct plan. The dam would conserve the billions of gallons of water needed for the project and the power plant would provide the electrical energy to move that water across the desert to the City of Los Angeles.

In 1928 the St Francis Dam, which Mulholland had designed and built, catastrophically failed killing over 400 people. Mulholland had designed St. Francis as a concrete gravity arch dam. The failure of the St. Francis Dam called into question the advisability of building a concrete gravity arch dam on the Colorado River and permanently blemished Mulholland's reputation. These concerns led to the formation of a special Colorado River Board which quickly concluded that the proposed gravity arch design, with some modifications, was safe and that the Boulder Canyon Project could proceed.

Walker "Brig" Young joined the Bureau of Reclamation in 1911 to work on the Arrowrock Dam in Boise, Idaho. Arrowrock was to be the then highest dam in the world. By the 1920s Young was supervising the feasibility studies for a new highest dam in Boulder Canyon. Based on his performance and competence in these assignments, the Bureau put him in charge of the Boulder Canyon Project. Young retired from the Bureau of Reclamation in 1948 as their Chief Engineer.

Francis "Frank" Crowe was one of the more colorful characters associated with the building of Hoover Dam. Like Young, Crowe also joined the Bureau of Reclamation shortly after college. They worked together on the Arrowrock dam. Crowe went on to build a series of dams for the Bureau earning a reputation for innovation and relentless productivity. In 1925, Crowe left the Bureau to join the Morrison-Knudsen Company. M-K would eventually become one of the key joint venture partners in Six Companies.

Young and Crowe had tremendous respect for one another, but they were frequently in conflict during the Hoover project. On behalf of the government, Young and his men insisted on quality construction. Crowe also emphasized quality work, but the Six Companies General Superintendent's push for production sometimes led to conflict. Crowe often called Young, "The Great Delayer". Young called the General Superintendent, "Hurry up Crowe", but together they made an effective team. As one of the workers said, "Frank Crowe and Walker Young are just like peas in a pod. They are here to work together and get this job done." And that they did.

The civil engineers who built Hoover Dam exemplify the vision of ASCE of engineers serving competently, collaboratively, and ethically as master: planners, designers, constructors, and operators of society's economic and social engine—the built environment.

Greg Diloreto, P.E., P.L.S., F. ASCE

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based on the book "Megatrends" by John Naisbitt. I support ASCE's direction in developing a tool that allows us to measure our projects against the Triple Bottom Line. I believe however, that it goes further. It is not only how we design projects that must be measured but how we run our businesses in general. Are we operating our companies in a sustainable manner? What assistance can ASCE provide its members that can be shared with the companies they work for?

Raising the Bar: Every civil engineer knows that learning does not stop with a college degree. ASCE has been discussing the issue of the required engineering knowledge in its Raising the Bar policy for over ten years. Is the level of education required 100 years ago to protect the health, safety and welfare of the public adequate in the 21st century? As education requirements for a bachelor's degree decrease and as infrastructure projects become more technically advanced, will the engineers of tomorrow be adequately prepared? To that end, ASCE has continued to refine its minimum education policy, with the goal of protecting the health, safety and welfare of the public we serve. I support our efforts in this regard. Finally, we must remember that ASCE is a member-driven organization. We must work with our members to meet their needs. We must also remember that our membership demographics are changing, reflecting the change in demographics

in the US. As more and more members reach Life Member status and retire from service as an engineer, we have an opportunity to tap that resource of knowledge and experience to do a variety of things including: mentor younger members; testify before elected bodies; develop local ASCE programs; and volunteer for a variety of ASCE profession enhancing services. Although ASCE has investigated this area before I do not believe we have fully implemented recommendations from previous efforts. I want to expend further efforts in this area.

As demonstrated by my over 30 years of service to ASCE, I have a passion for this organization, and I intend to continue that passion of service as the President-elect and President of ASCE.

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REGION 9 Fall 2010, Winter 2011 Continuing Education Calendar

Region	DATES	SEMINARS AND COMPUTER WORKSHOP LINKS	Technical Division
9	Jan. 13-14, 2011	Design and Installation of Buried Pipes	Geotechnical
9	Jan. 20-21, 2011	Leadership Development for the Engineer	Management & Leadership
9	Jan. 20-21, 2011	Progressive Collapse Mitigation: Practical Analysis Methods and Proven Solutions	Structural
9	Jan. 26-28, 2011	Dam Breach Analysis using the Hydrologic Engineering Center's River Analysis System HEC-RAS	Hydraulics & Water Resources
9	Feb. 2-4, 2011	GIS for Hydraulic and Hydrologic Modeling Using ArcGIS Desktop ~New	Hydraulics & Water Resources
9	Feb. 3-4, 2011	Modern Detectors for Traffic Surveillance Management, and Traveler Information ~New	Transportation
9	Feb. 10-11, 2011	Stormwater BMPs That Work: Effective Analysis, Design and Maintenance	Environmental
9	Feb. 17-18, 2011	Financial Management for the Professional Engineer	Management & Leadership
9	Feb. 23-25, 2011	Introduction to Tunnel Design and Construction	Geotechnical
9	Feb. 24-25, 2011	Aluminum Structural Design with the 2010 Aluminum Design Manual	Structural
9	March 8-11, 2011	Pumping Systems Design for Civil Engineers	Hydraulics & Water Resources
9	March 17-18, 2011	Design Build Contracting	Construction/Development
9	March 17-18, 2011	Water Hammer in Transmission and Distribution Systems	Hydraulics & Water Resources
9	March 24-25, 2011	Risk Assessment in Geotechnical Engineering	Geotechnical/Transportation

EWRI 2011 Congress Call for Abstracts

The organizing committee of the World Environmental & Water Resources Congress 2011 welcomes abstract submissions for this year's event, being held May 22-26, 2011, in Palm Springs, California.

A variety of tracks and sessions will be hosted at the 2011 Congress. The Environmental and Water Resources Institute anticipates strong participation and a diverse sampling of technical content in the conference program.

Visit the Congress website for a list of sub-topics to supplement the above-listed subject matter. The website also provides additional information on housing, international attendees, tours, and opportunities to sponsor or exhibit in Palm Springs.

For questions, or more information about the 2011 World Environmental & Water Resources Congress, visit the web-site, contact the Congress Technical Chair at ewri2011tc@asce.org, or send inquiries to ewri@asce.org.

If you would like to exhibit or cosponsor the conference please contact Sean Scully at 703-295-6154 or sscully@asce.org or Kira Simonson at 703-295-6349 or ssimonson@asce.org.

DISASTER TRAINING

Classes are being organized for volunteers to help in the event of a major disaster under the auspicious of the State of California Emergency Management Agency (Cal EMA). Classes will be held in ASCE Branch areas when there are sufficient requests. Qualified individuals are California Registered Civil, Structural, Geotechnical, Certified engineering Geologists, or Architects. If you are interested in attending a class, or are interested in arranging a class, please contact the ASCE Disaster Preparedness Committee Chairman.

There is no charge for the class.

The class lasts 4 or 5 hours

The Class can commence as early as 8 AM or after work.

Monday through Friday or on Saturday

Classes will be given for VOLUNTEERS from professional organizations to assess damage, and COORDINATORS from City or County to direct Volunteers for their area. Coordinators may act as Volunteers outside of their area of expertise.

To register for the class submit your name along with your telephone number and e-mail address. You will be contacted when 10 or more request a class. The maximum number in the class should not exceed 20.

If your Branch, or Firm would like to offer the use of its facilities for a class, please register and provide the name of contact person, phone, and E-mail. You will be contacted to make arrangements.

Thank you for your support.

Jack W. Rolston, Chair

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Younger Member Forum



P.E. REVIEW COURSE SPRING 2011

Advance in your civil engineering profession by earning your license and becoming a Professional Engineer. Our courses are taught by practicing professionals. Our PE Exam instructors review the following subjects: Environmental, Geotechnical, Construction, Water, Transportation, Structural, and the specialized topics of Surveying and Seismic.

The PE Review Course will be located in the heart of Los Angeles. Meetings occur twice a week on Monday and Wednesday nights. The Surveying and Seismic courses are each offered on three different Saturdays.

Please share this announcement with co-workers and colleagues.

For more information, please contact us:

Maria Miranda at (562) 889-4982 or mlmiranda3@gmail.com

Omar Sanchez at (714) 319-0552 or oasanchez25@yahoo.com



The Los Angeles Section

Cordially Invites You and Your Spouse to

Life Member Brunch

March 5, 2011

In Honor of those members who have advanced to
Life Member status in the society and in recognition of their career achievements.

Keynote Speaker:

**ASCE Society President-Elect,
Andrew W. Hermann, P.E., SCEB, F.ASCE**

Members & Guests: \$30.00 per person

Table Sponsor: \$300.00 (4 seats for Sponsor & 6 for Honored Life Members)

Reception: 11:00am Brunch: 11:30am Program: 12:30 – 2:00pm

Lunch: Chicken Chardonnay, Vegetarian available

Reservation must be received no later than Friday, February 25.

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For reservations, please send checks to:

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PE Review Course

RBF Consulting will present the Professional Engineering License Review Course for 2011.

This educational experience prepares applicants for the 2011 Civil Engineering License Examination.

The training is centrally located in

Irvine and takes place on 13 consecutive

Saturdays from January 8 - April 2, 2011.

The course fee of \$1800 includes textbooks, practical exercises and over 100 hours of instruction.

This program is accredited: Participants will earn CEUs.

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Typesetting, Layout & Printing: The Center Quickprint



Please send all copy to the Editor by
the first of the month preceding publication.

Identification Statement

ASCE Newsletter, (ISSN 0273-6233)
is published monthly by ASCE,
Los Angeles Section, 1405 Warner Ave.
Tustin, California 92780. Subscription price
included in Section dues of \$45.

Circulation

Circulated monthly (except for a joint
July/August issue) to the 5,000 subscribing
members of the Los Angeles Section, ASCE.

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