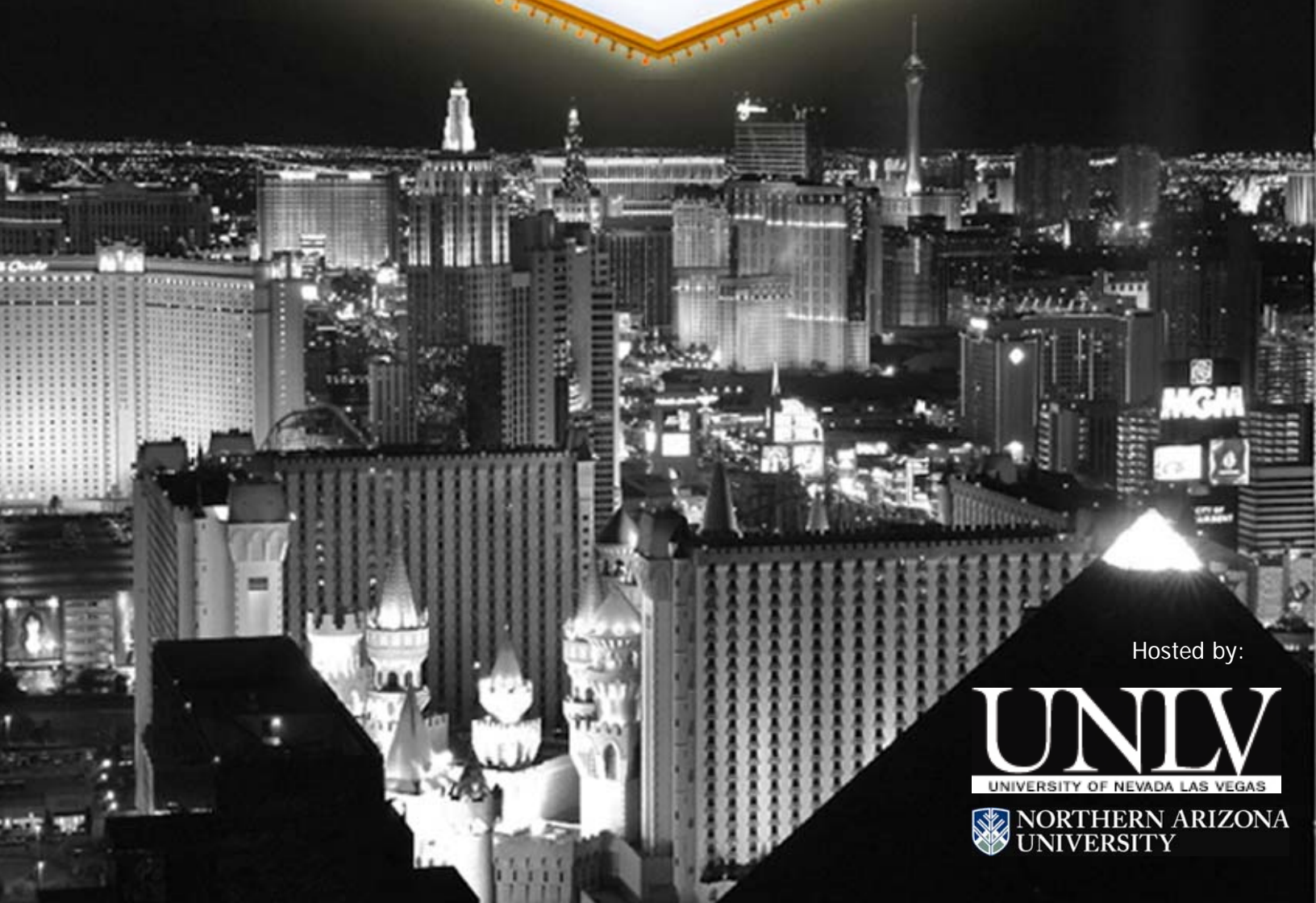


ASCE PACIFIC SOUTHWEST REGIONAL CONFERENCE

April 8–10, 2010



Hosted by:



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WHAT IS THE PSWRC?

The Pacific Southwest Regional Conference (PSWRC) is an annual conference held by the American Society of Civil Engineer Student Chapters from Arizona, Southern California, Hawaii, and Southern Nevada. Students compete in events that test skills related to the civil engineering profession as well as sporting events. This year's conference is being hosted in the **Fabulous City of LAS VEGAS** by the **University of Nevada, Las Vegas** in coordination with **Northern Arizona University**.

Welcome!

YOUR HOSTS

University of Nevada, Las Vegas

Dianna (Dee) Feica '09	Director
Noe Santos '09	Assistant Director Treasurer, Registration
Dr. Thomas Piechota	Faculty Advisor
Dr. Aly Said	Faculty Advisor
Christine Wallace	Dean's Office

Iani Batilov	Apparel, Graphics, Marketing
Sarah Bareng '08	Graphics/Documents, Career Fair
Melissa Cansdale '08	Communications
Mark Elkouz	Sponsorship
Arlene Gloriani '09	Scheduling
Tory Jackson	Volunteer Coordinator
Kathryn Leonardo	Catering, Banquet
Alex Solis	Webmaster
Ankush Sehdev	Student Chapter President

Northern Arizona University

Danny Harris	ASCE Student Chapter President
Jo-Anne Barcellano	Vice-President of Conference
Katie Hein	Vice-President of Conference

PARTICIPATING SCHOOLS

Southern California

- California Polytechnic University, Pomona
- California Polytechnic University, San Luis Obispo
- California State University, Fullerton
- California State University, Long Beach
- California State University, Los Angeles
- California State University, Northridge
- Loyola Marymount University
- San Diego State University
- University of California, Irvine
- University of California, Los Angeles
- University of California, San Diego

Arizona

- Arizona State University
- Northern Arizona University
- University of Arizona

Hawaii

- University of Hawaii, Manoa

Southern Nevada

- University of Nevada, Las Vegas

Guest Participant

- California Baptist University



HOWARD R. HUGHES
COLLEGE OF ENGINEERING



MESSAGE FROM FACULTY ADVISOR

Dear PSWRC Participants,

I would like to welcome you to the UNLV campus for the 2010 Pacific Southwest Regional Conference. We are very excited to be the hosts along with NAU this year. Our ASCE Student Chapters have worked hard to make this a successful conference.

This years attendance is over 1000 participants and this is a testament to you all showing a strong interest in ASCE Student Chapters and the high quality event put on by UNLV and NAU. We are thrilled to have NAU as our co-host this year and I am particularly happy about this since I am a Lumberjack Alumnus!

This is also a great opportunity to show off our campus, which is a rapidly growing university that has top-notch faculty and students that contribute to the high quality education and research programs. Our faculty, students, and staff enthusiastically confront the challenges of economic and cultural diversification, urban growth, social justice, and sustainability.

I hope you enjoy the Conference and your time at UNLV and Southern Nevada.

Engineer a Difference.

Sincerely,

Thomas Piechota, PhD., PE
ASCE Faculty Advisor
engineering.unlv.edu
unlv.edu

Important Information on Badges

Please keep your badges with you at ALL time. This badge will serve as your identification on all three days.

Your badge will also allow you access to the Student Wellness & Recreation Center (SWRC) for the Basketball tournament.

Lunch Information

Lunch will be served at the Thomas T. Beam Engineering Complex (TBE) on Thursday and Saturday. Check the map on Page 5 for locations.

Lunch on Friday will be served at Boulder Beach on Lake Mead, the location for Concrete Canoe Races.

Meal Tickets:

Thursday: Red
Friday: Green
Saturday: Yellow
Banquet: Blue

No ticket substitutions between days are allowed.



GETTING TO EVENT LOCATIONS

From Alexis Park Resort & Hotel

To Engineering Parking Lot: Head East towards the Hard Rock Hotel. Turn left on Swenson Rd. keep going, the road will curve. Turn right at Flamingo Rd. At the first stoplight, turn right on Cambridge/Claymont St. At the stop sign, turn left. The Engineering Parking Lot will be on your left.

To Intramural Fields Parking: Head East towards the Hard Rock Hotel. Go past Swenson Rd., the Intramural fields are on your right. The Parking Lot will be on your left.

To Thomas Mack Parking Lot: Head East towards the Hard Rock Hotel. Go past Swenson Rd., at the stop sign turn right at Tarkanian Way. Keep going straight and you will reach the parking lot

To the Student Union Parking: Head East towards the Hard Rock Hotel. Turn right on Paradise Rd. it will be a one-way street. At the first stoplight, turn left to Tropicana Ave. At Maryland Pkwy. make a left. Go past the Student Union and make a left on Harmon Ave. At the entrance, make a left to the parking lot.

To Boulder Beach at Lake Mead: Head East towards the Hard Rock Hotel. Turn right on Paradise Rd. Follow the signs to I-215 East. Once on the I-215 Freeway continue for about 10 miles. Take **Exit 1 onto I-515/US-93 South/US-95 South** toward Boulder City. Continue onto US-93 South. Turn **left at Nevada Hwy/US-93 South** continue for about 3 miles. Turn **left at Lakeshore Rd./NV-147 West/ NV-166** signs will be posted to anticipate this turn. Continue for about 2 miles and turn **right** towards the RV Park. Signs will be posted to guide you. A map/layout of the Concrete Canoe Event can be seen in [Page 11](#).

PARKING

Parking passes are included in your registration pack, for inquiries please contact us through the information listed in [Page 12](#) of this program. Please place the parking pass against the driver side windshield. Make sure it is visible from the outside. Parking is never allowed on Reserved spots.

Additional Parking Passes (for non-registered guests) are available for \$10 for all 3 days at the Registration Desk on April 7, Wednesday at the Thomas T. Beam Engineering Complex

The Parking Pass will allow you to park in the following spots:

Trailer Parking: Parking for trailers are allotted parking space at the Thomas & Mack White Lot Parking

Thursday & Friday Parking: Visitors or General Parking is only allowed on the Thomas & Mack Black Lot Parking

Saturday Parking: Parking is allowed on any student, staff and metered parking including the Engineering Parking Garage

All information listed on this program is subject to change. To check for last minute changes check twitter.com/PSWRC2010

Location	April 8, Thursday	April 9, Friday	April 10, Saturday
1 SEB Parking Lot			Steel Bridge Build/Test (7am)
2 Sidewalk Café Field	Environmental (7am -11am) Impromptu (1pm - 3pm) Surveying (8am - 5pm)		Geotechnical/GeoChallenge (11am - 3pm)
3 Student Union Rm 219	Concrete Canoe Pres. (10:30am)		
4 Pida Plaza	Mystery Event (4pm - 5pm)		
5 North Field	Concrete Canoe Display (7am - 2pm) Steel Bridge Display (7am - 2pm) Career Fair		
6 Science & Engineering Bldg (SEB) Theatre	*Canoe Cap't Mtg (5pm - 6pm)	*Steel Bridge Cap't Mtg (5pm - 6pm)	
7 Intramural Field			Soccer (8am) Dodgeball (8am) Volleyball (10am - 3pm) Tug-O-War (1pm - 3pm)
8 Student Wellness & Recreation Center			Basketball (10am-4pm) Third Floor
Lake Mead/Boulder Beach		Concrete Canoe Races (7am)	
10 Thomas Beam Engineering Building (TBE)			Quiz Bowl (9am - 11am) Rm. A-107 Tech. Paper (1pm - 4pm) Rm. A-107 *Business Mtg (1pm) Rm. B-172
11 Cox Pavillion			Awards Banquet (6:30pm)

* Events not open to public

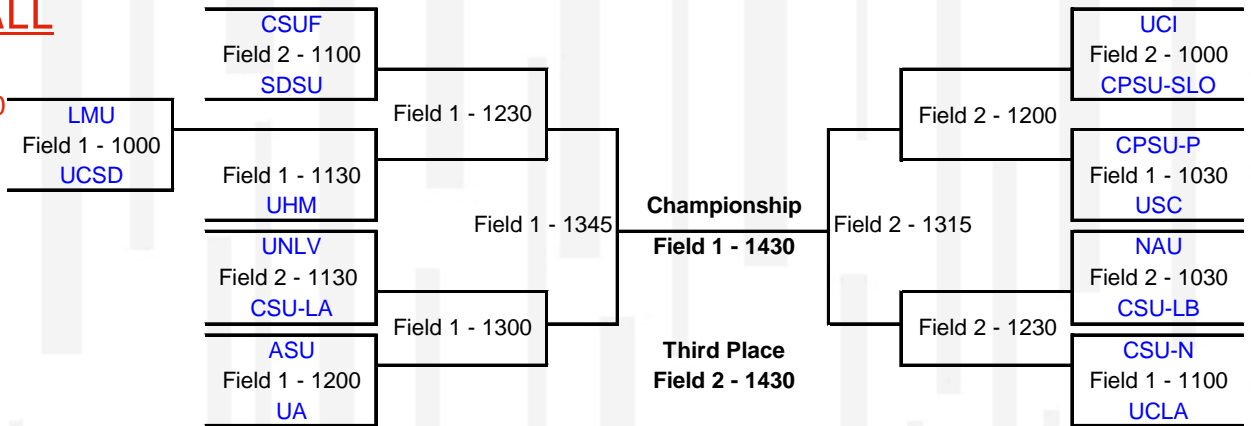
UNLV CAMPUS MAP



SCHEDULE OF SPORTING EVENTS

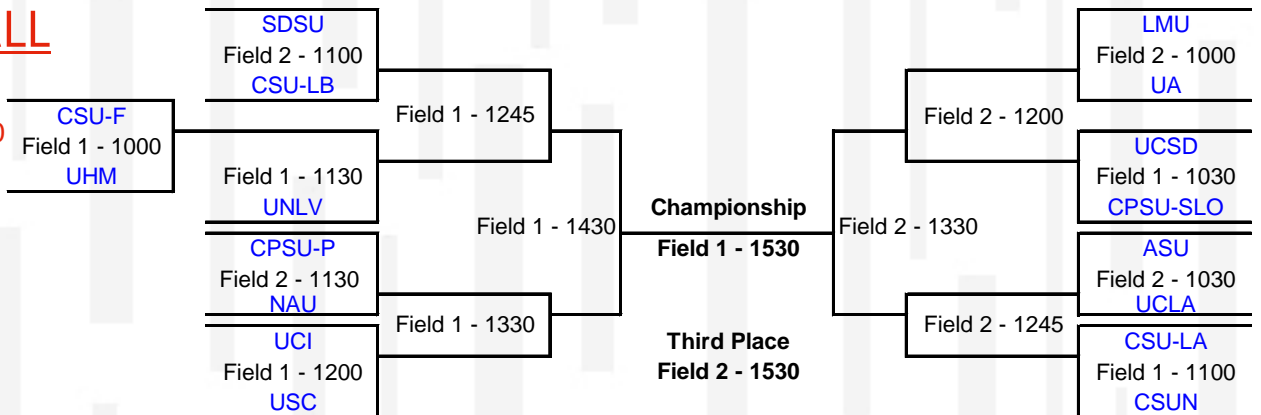
VOLLEYBALL

Intramural Fields
Saturday, April 10



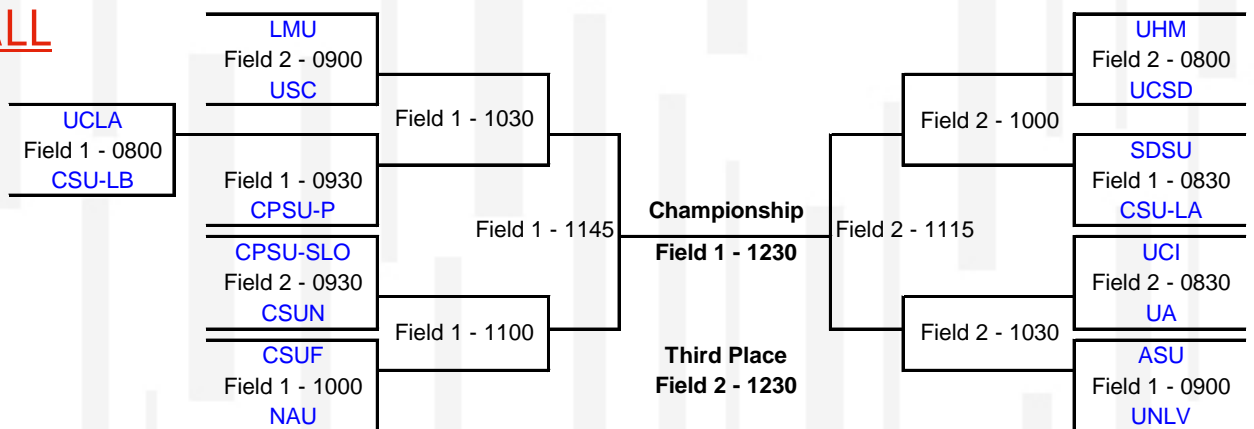
BASKETBALL

(SWRC) 3rd Floor
Saturday, April 10



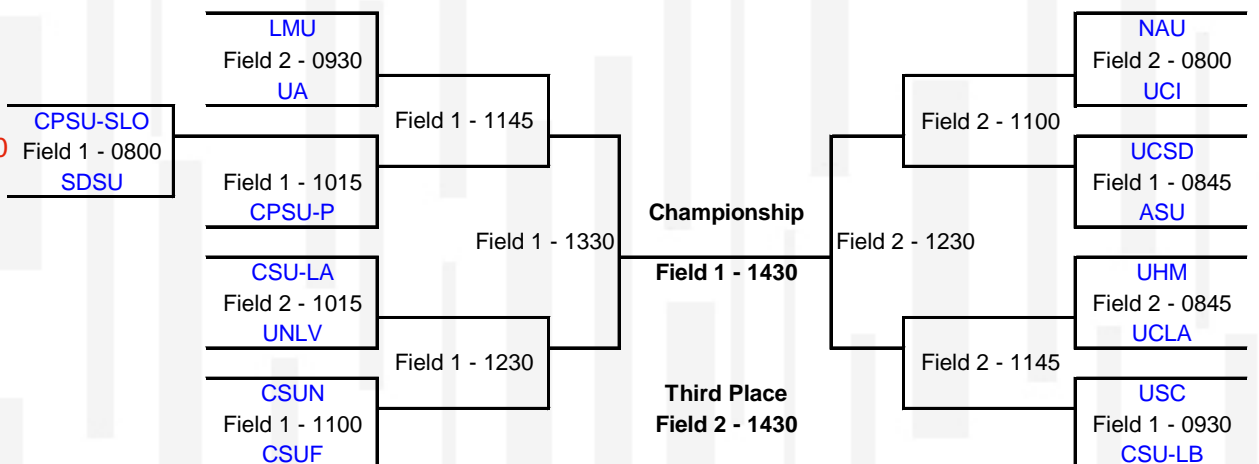
DODGEBALL

North Field
Saturday, April 10



SOCCER

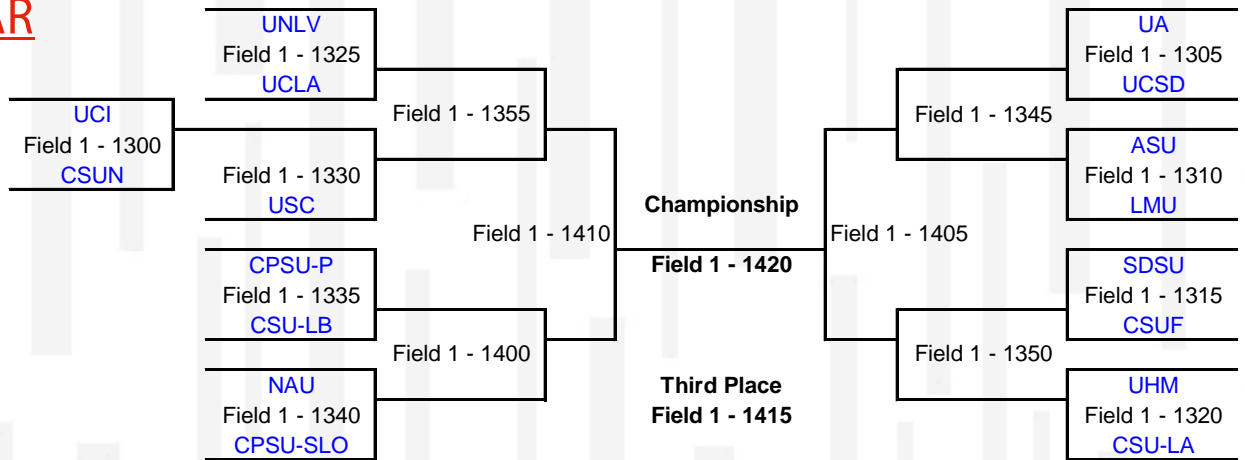
Intramural Fields
Saturday, April 10



SCHEDULE OF SPORTING EVENTS CONTINUED ...

TUG-O-WAR

Intramural Fields
Saturday, April 10



ORDER OF SCHOOLS

Steel Bridge Aesthetics, Concrete Canoe Aesthetics, Concrete Canoe Presentations, Environmental Presentations, Geotechnical Presentations, Steel Bridge Build, and Technical Paper

1. California State University, Los Angeles
2. Arizona State University
3. University of California, Irvine
4. California State University, Northridge
5. University of Arizona
6. California Polytechnic University, San Luis Obispo
7. Northern Arizona University
8. California State University, Fullerton
9. University of Nevada Las Vegas
10. University of California, San Diego
11. Loyola Marymount University
12. California State University, Long Beach
13. University of Southern California
14. University of California, Los Angeles
15. California Polytechnic University, Pomona
16. San Diego State University
17. University of Hawaii, Manoa

Surveying

School	Angle Course (Time)	Level Course (Time)
1. CSU, Los Angeles	A (0830)	A (1430)
2. ASU	A (0930)	A (1345)
3. UC Irvine	A (1030)	A (0830)
4. CSU, Northridge	A (1130)	A (0915)
5. Univ. of Arizona	A (1230)	A (1000)
6. Cal Poly, SLO	A (1330)	A (1045)
7. NAU	B (0830)	A (1130)
8. CSU, Fullerton	B (0930)	A (1215)
9. UNLV	B (1030)	A (1300)
10. UC San Diego	B (1130)	B (0830)
11. LMU	B (1230)	B (0915)
12. CSU, Long Beach	B (1230)	B (1000)
13. USC	C (0830)	B (1345)
14. UCLA	C (0930)	B (1300)
15. Cal Poly, Pomona	C (1030)	B (1215)
16. SDSU	C (1130)	B (1045)
17. Univ. of Hawaii, Manoa	C (1230)	B (1130)
18. CBU	C (1230)	B (1430)

EVENT LEADS

**Concrete Canoe
Environmental Design
Geotechnical
Impromptu
Quiz Bowl**

**Mystery Event
Scavenger Hunt
Steel Bridge**

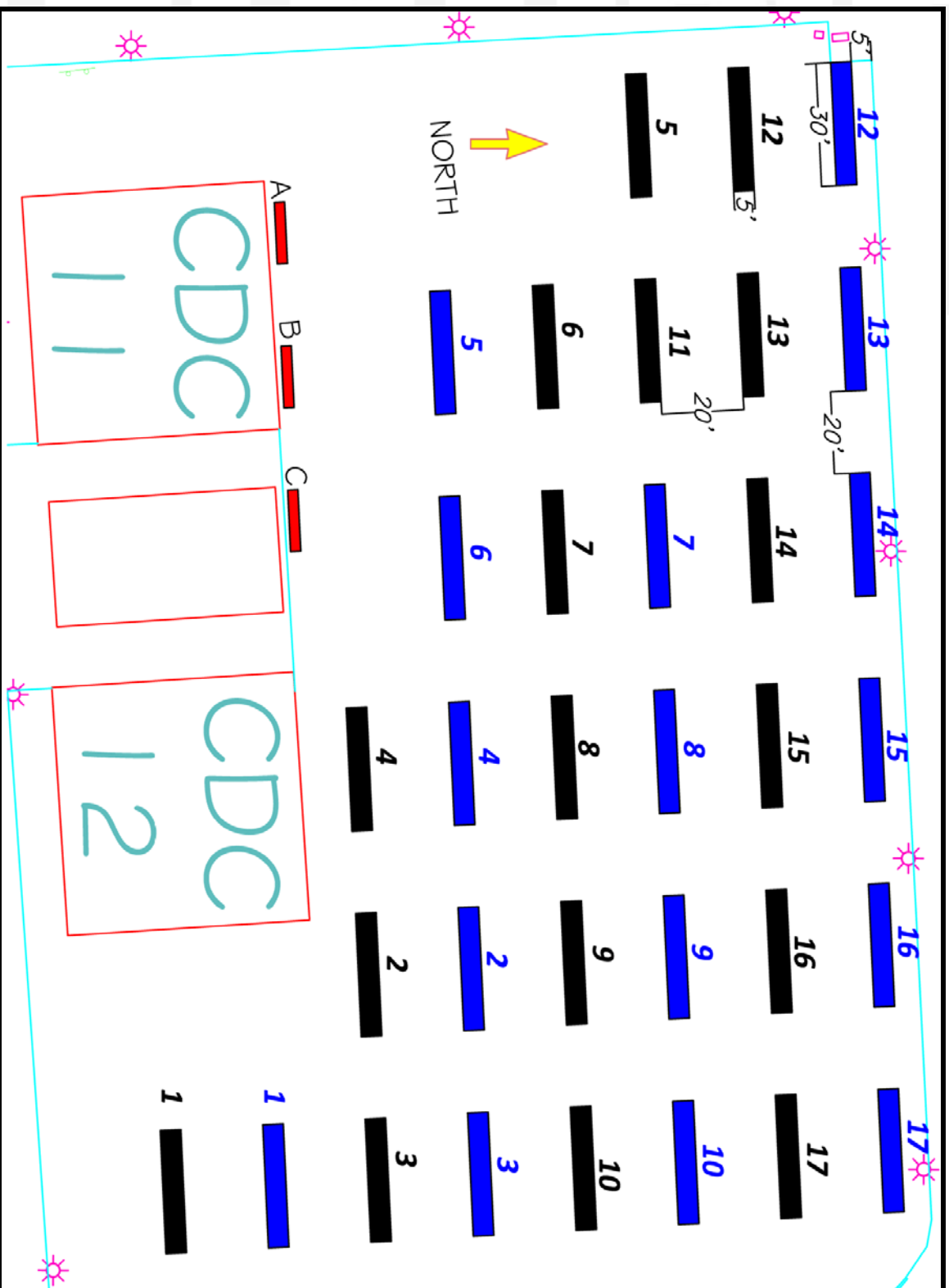
**Surveying
Technical Paper**

Paul Villaluz '96, '06
Richard Robinson '09
Elyson "Smiley" Liao
Katie Hein
Katie Hein
Jo-Anne Barcelano
Noe Santos
Arlene Gloriani
Chris Parker '08
Olivia Furlan '05
Myron Fikse
Akash Sehdev '06

Sporting Events:

Basketball Jo-Anne Barcelano
Dodgeball Noe Santos
Soccer Eduardo Gonzalez
Tug-O-War Alexander Wood
Volleyball Mark Elkouz

CONCRETE CANOE & STEEL BRIDGE AESTHETICS NORTH FIELD 7AM—4PM



Display Key

1. CSULA
2. ASU
3. UCI
4. CSUN
5. U of A
6. CPSU-SLO
7. NAU
8. CSUF
9. UNLV
10. UCSD
11. LMU
12. CSULB
13. USC
14. UCLA
15. CPSU-P
16. SDSU
17. UHM

A: Baker Concrete Booth

B: Information Table

C: Sound System

Canoe/Bridge Dimension Area:
30ft x 5ft

Blue: Canoe Display

Black: Bridge Display

United States Senate

WASHINGTON, DC 20510-2805

April 8, 2010

Dear Friends:

It is both a pleasure and a privilege for me to welcome you to Las Vegas for the 2010 Pacific Southwest Regional Conference of the American Society of Civil Engineers. The Howard R. Hughes College of Engineering at the University of Nevada Las Vegas has the distinct honor of hosting this year's conference, and I congratulate all those whose hard work has made this outstanding event possible.

We in southern Nevada are justifiably proud of the outstanding administration, faculty, and students at UNLV and know that you appreciate, as we do, the opportunity to shine a light on this exceptional engineering program. Your attendance at the conference affords you the opportunity to enjoy the many events, activities, and presentations as well as to experience the camaraderie of interacting with your colleagues from across the region.

Enjoy your time in Las Vegas, and please accept my best wishes for an enjoyable and memorable conference.

Sincerely,



John Ensign
United States Senator

Thank you Volunteers!

A Toast!

Raise your glasses in the air
And give three rousing
cheers
To all of the extraordinary
super volunteers
They always share their
time
With enthusiastic hearts
They appear from out of
nowhere
To do their special parts
Whenever there's a project
or a task to be completed
You can always count on
them
They never are defeated
Their smiles are genuine
And their attitudes are
winning
Surely they must be the
ones
Who keep this old world
spinning
So if there is a job to do-
Don't shrink back in fear
Just seek out the expertise-
Of a Volunteer

- Suzanne Hartgraves

Thank you Judges!

Kent Barber
Jody Walker Belsick
John Buzzone
Marlon Calderon
Braja Das
Danny Flti
Marco Furlan '05
Julian Garcia
Gloria Grev
Amber Girard
Serge Haddad
Mike Hansen
Tanner Hartranft '05

Jay Higgins
George Huang
Kevin Hoang
Charles Kajkowski
John Land
Julie Kentosh
Cliff Lawson
Mike Levi
Francis Mangaoang '07
Ed McGuire
Nikki Melton '09
Heren Molina
Erika Moonin '94

Sam Palmer
Tim Parks
Percy Penafiel
David Peterson
Oscar Quiroz '09
Maylinn Rosales
Karen Sepulveda
Shan Shu
Paul Simpson
John Swatzell
Danny Tang
Jonathan Tull

Walt Vanderpool
Darwin Vargas
Tony Ventimiglia
Walt Vodrazka Jr. '96
Dr. Walt Vodrazka Sr.
Chris Widmer

HONORARY JUDGES

Dr. David Ashley
Dr. Edward Neumann



PROCLAMATION

WHEREAS, we celebrate the mission of the American Society of Civil Engineers; and

WHEREAS, eighteen months ago, the University of Nevada, Las Vegas Howard R. Hughes College of Engineering and the student chapter of the American Society of Civil Engineers were announced as the "2010 Competition Host" due to hard work of a committee of sixteen; and

WHEREAS, today we welcome eighteen plus teams from the southwest region of the country and Canada to Boulder City and the University of Nevada, Las Vegas to promote the engineering profession, through a series of competitions involving steel and concrete construction, as well as other engineering related skills; and

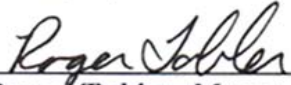
WHEREAS, we recognize the contributions of our volunteers and sponsors that ensure this event occurs.

NOW THEREFORE, I ROGER TOBLER, Mayor of Boulder City, Nevada do hereby proclaim April 8-10, 2010 as:

2010 ASCE PACIFIC SOUTHWEST REGIONAL COMPETITION DAYS

and urge all citizens to recognize the hard work and dedication of the teams and student chapters involved to bring together everything they have learned in the classroom to design, construct, and solve a variety of engineering problems through their participation in this competition.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the City of Boulder City, Nevada to be affixed this 1st day of March, 2010.



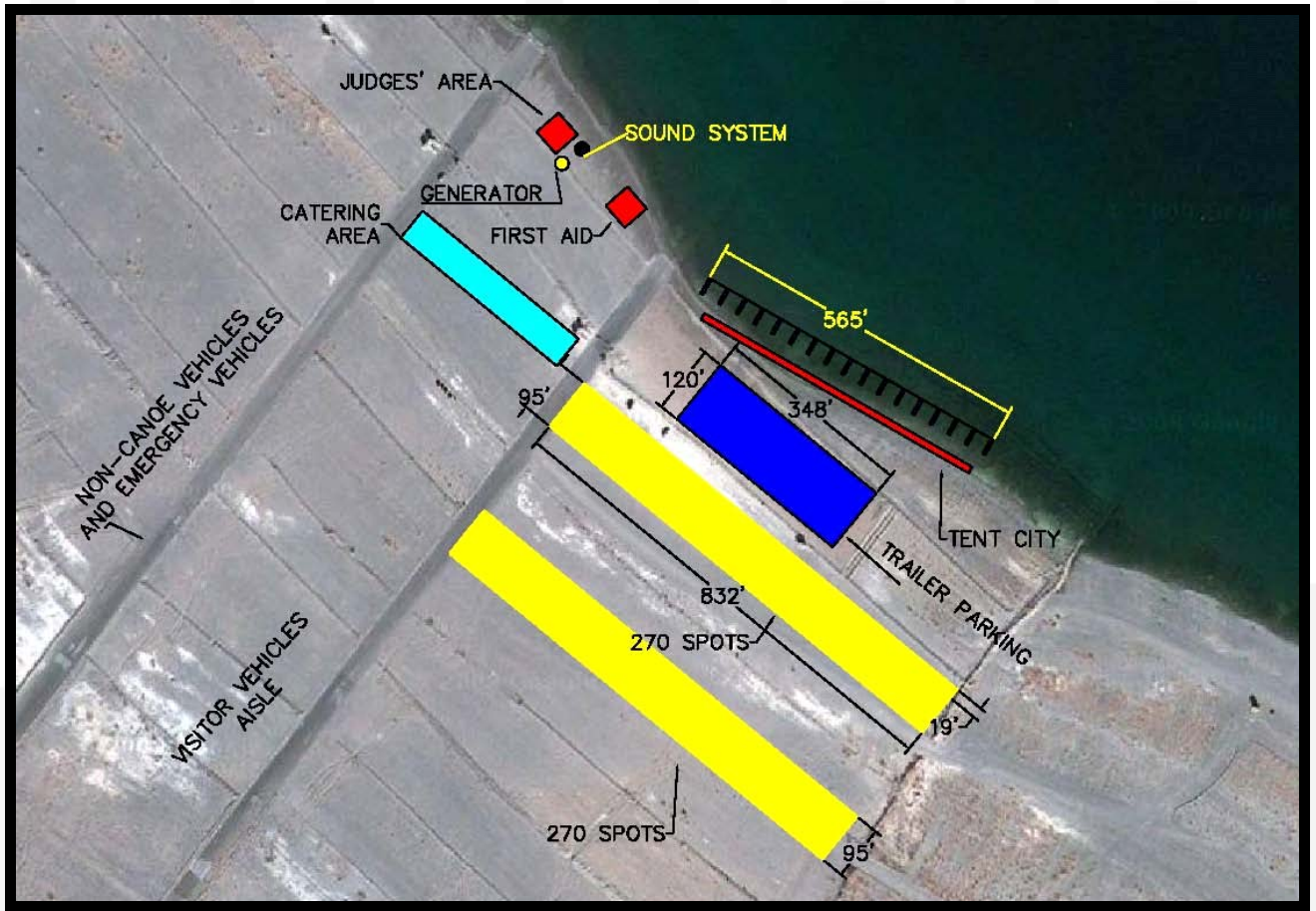
Roger Tobler, Mayor

ATTEST:

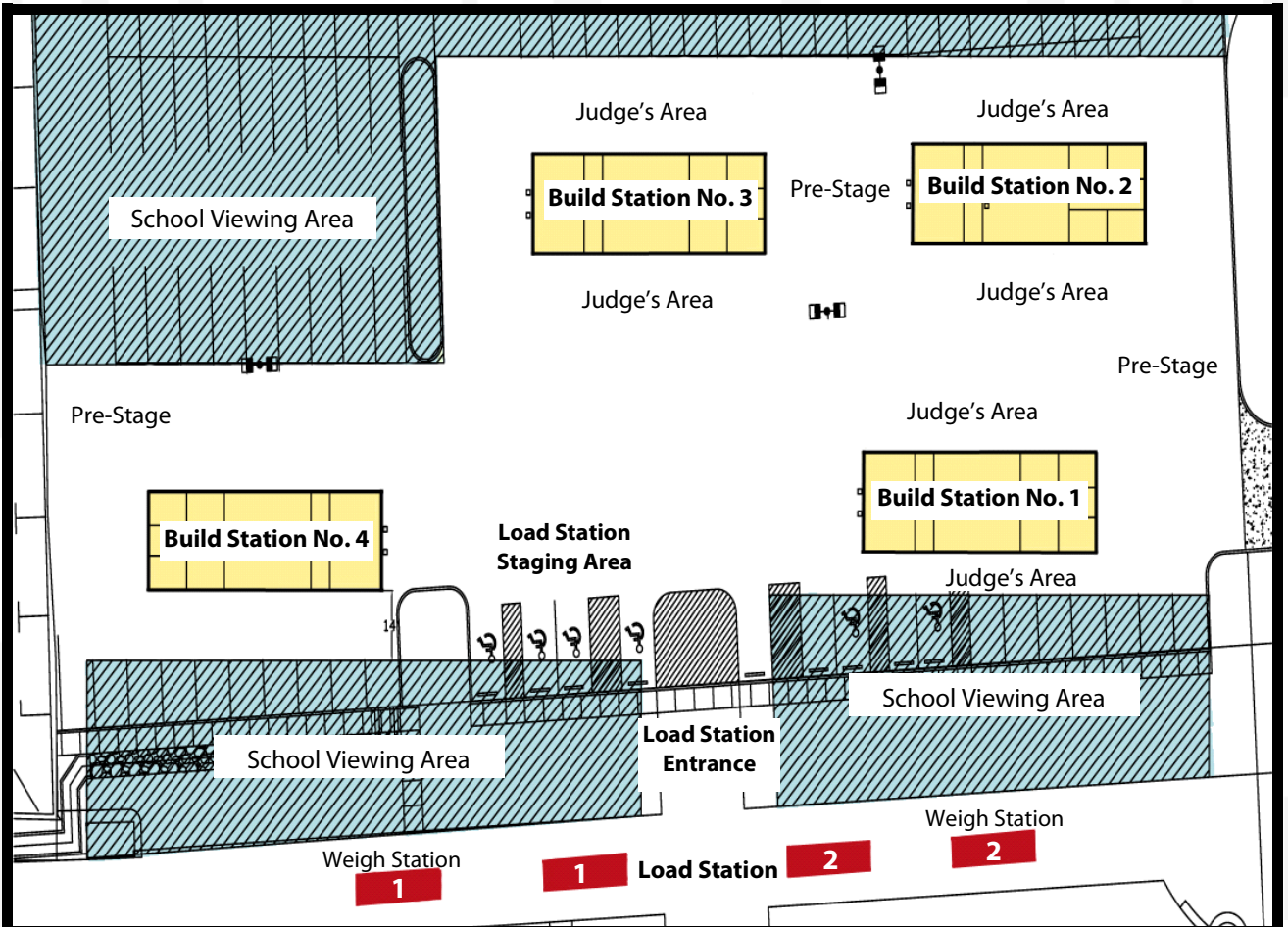


Lorene Krumm, Acting City Clerk

Concrete Canoe Races: Boulder Beach Layout



Steel Bridge Build/Load: SEB Parking Lot



AWARDS BANQUET

SATURDAY, APRIL 10
COX PAVILION at the THOMAS & MACK CENTER at UNLV



6:30 p.m.

No-Host Cash Bar Cocktails

7:00 p.m.

Dinner and Awards Presentation

Inquiries on seat reservations and dietary restrictions

may be directed to

Christine Wallace

Christine.Wallace@unlv.edu

Or (702) 895—3965

INQUIRIES

Please direct your questions or inquiries to:

Dianna Feica email: dfeica@gmail.com
call or text: (702) 205—5005

Noe Santos email: noe.santos87@gmail.com
call or text: (702) 366—3737

Check our twitter account at <http://twitter.com/PSWRC2010> for up to the minute updates during the conference

THANK YOU!

Lodging Partner:

Alexis Park Resort & Hotel

Catering:

Sodexo
Thomas & Mack Center
Summerlin Bistro Catering

Special Thanks to:

Jason Blair
Doa Meade '98
Lisa Freestone '98, '09
Don Sepulveda
Walt Vodrazka Jr. '96
Dr. Edward Neumann
Dr. Eric Sandgren
Civil Advisory Board
Campus Security
College of Engineering
Alumni Chapter
Faculty & Staff of the SEB
University of Hawaii, Manoa
UNLV Facilities
UNLV Parking
UNLV Reprographics
UNLV Student Life

Financial Sponsors:

Gold Sponsors:



Bronze Sponsors:



Individual Sponsors:

Olivia '05 and Marco Furlan '05
Erika Moonin (ASCE Region 8 Governor)
Dr. Walt Vodrazka
State Farm Insurance, Mike Whitford

Services Rendered Sponsors:

HOWARD R. HUGHES
COLLEGE OF ENGINEERING



Gold Sponsors:

MedicWest Ambulance

Bronze Sponsors:

UNLV Civil & Environmental
Engineering Department

In-kind Donors:

Frito Lay
G.C. Wallace
RCI Engineering
TransCore ITS

Career Fair Participant:

Baker Concrete Construction

Proclamation

WHEREAS, originally founded in 1852, the American Society of Civil Engineers (ASCE) is the oldest national engineering society in the United States with more than 147,000 national and international members today; and,

WHEREAS, ASCE's vision is to position engineers as global leaders building a better quality of life, with educational activities extended to college campuses to help future engineers become better prepared for their careers; and,

WHEREAS, in 2008, the University of Nevada, Las Vegas (UNLV) Howard R. Hughes College of Engineering and UNLV's ASCE Student Chapter were selected as the 2010 Pacific Southwest Regional Competition Host, an honor that occurs only every 15 years and the result of the hard work of a sixteen-member committee; and,

WHEREAS, seventeen teams from the southwestern United States and Hawaii will participate in a three-day series of competitions involving steel and concrete construction as well as other engineering-related skills, including the Concrete Canoe, Steel Bridge and Geotechnical events; and,

WHEREAS, the events allow the student teams to apply their classroom knowledge to design, construct and solve a variety of engineering problems through participating in this competition;

NOW, THEREFORE, I, Andy Hafen, as Mayor of the City of Henderson, Nevada do hereby proclaim April 8 – 10, 2010 as

2010 ASCE PACIFIC SOUTHWEST REGIONAL COMPETITION DAYS

in the City of Henderson and ask all citizens to recognize the hard work and dedication of ASCE student chapters and the 2010 competition teams.

IN WITNESS WHEREOF, I have set my hand and caused the Great Seal of the City of Henderson, Nevada, to be affixed this 8th day of April, 2010.



ANDY HAFEN
Mayor, City of Henderson

ATTEST:

MONICA MARTINEZ SIMMONS, MMC
City Clerk

HARRY REID
NEVADA

MAJORITY LEADER

United States Senate

WASHINGTON, DC 20510-7012

March 30, 2010

American Society of Civil Engineers
2010 Pacific Southwest Regional Conference
Howard R. Hughes College of Engineering
University of Nevada, Las Vegas
4505 Maryland Parkway
Las Vegas, NV 89154

Dear Friends:

It is with pleasure that I welcome you to Las Vegas for the 2010 ASCE Pacific Southwest Regional Conference, presented by the Howard R. Hughes College of Engineering.

Southern Nevada is a virtual museum of modern infrastructure, so it only makes sense that we host this important conference. From the world famous Hoover Dam and the O'Callaghan-Tillman Bridge, to the third straw going to Lake Mead, Nevadans have a history of big ideas and big projects. As a U.S. Senator, I have worked hard to strengthen Nevada's engineering and technology sector, and make projects like the O'Callaghan-Tillman Hoover Dam Bypass Bridge a reality.

I would like to thank everyone who has lent their support to this conference today. I would also like to congratulate all the students of UNLV and across the region for participating in the various competitions at this event. Their work proves that quality education combined with the drive and determination of our youth can make almost anything possible.

I wish you all a wonderful conference.



Sincerely,

A handwritten signature in black ink that reads "Harry Reid".

HARRY REID
United States Senator

IN MEMORIAM

Herbert C. Wells

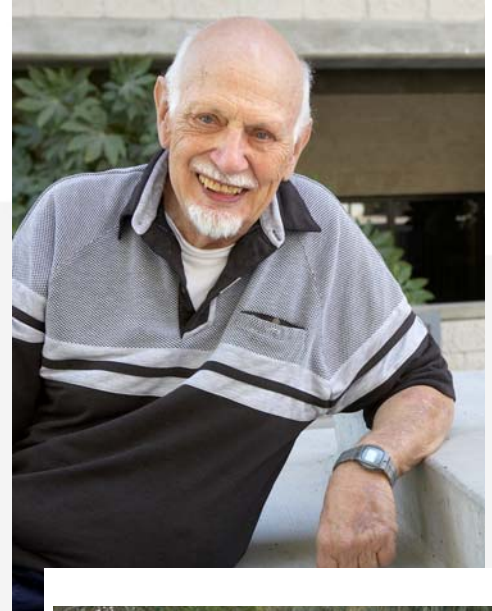
A stalwart of the UNLV Engineering program since its conception, Herbert C. Wells is being remembered by the Las Vegas Engineering community and the thousands of students that he has helped nurture.

In 1957, he started teaching surveying at UNLV when it was still a branch of the Reno campus known as the Southern Regional Division of the University of Nevada. One class grew into more classes and in 1961, Wells joined the faculty on a full-time basis. He was the first engineering lecturer.

During his tenure, he slowly but surely, fostered engineering and engineering related courses into UNLV's catalog. He was also instrumental in building the library's early collection of engineering books.

Over the years he has held a variety of positions but Dr. Wells always had an open door, always available for counsel or just a chat. He was loved by his students and some kept in contact even decades after their graduation. It was befitting that he was awarded Outstanding Faculty Member of the Year in 1985.

Upon his retirement in 1997 he was asked what he will miss most about UNLV, his reply was immediate and emphatic — "The students. It's a real easy question."



UNLV

UNIVERSITY OF NEVADA LAS VEGAS



NORTHERN
ARIZONA
UNIVERSITY



**See you next year at
California State University, Los Angeles!**

For pictures taken during conference and more information check
www.PSWRC.org