Monthly Chapter Meeting

The March Chapter Meeting will be held on Thursday, March 11, 2010. Check-in and Networking begins at 11:30 a.m. Lunch and Program will begin at 12:00 p.m. The meeting will be held at the Radisson Hotel Phoenix City Center, 3600 N. 2nd Avenue, Phoenix, AZ 85013 (602-604-4900). For reservations, call 602-258-7499 by March 8th at noon. Cost is $25.00 for non-members (cash or check only), free to CSI members. This month's program is "Imagine The Future". Guest speaker is ____________.

Monthly Technical Meeting

If you would like to join the CSI Technical Committee, the next meeting is Tuesday, March 16, 2010 from Noon until 1:00 p.m. (bring your own lunch), at HDR, Inc., 3200 E. Camelback Rd., Suite 250, Phoenix, AZ 85018; 602-522-7700. The topic of discussion is the Building Envelope.

DO YOU HAVE AN INTERESTING PRODUCT WORTHY OF A DESIGN COMPETITION?

The CSI Phoenix Chapter is seeking a Featured Product Sponsor for the 2010 Imagination Cube Design Competition.

For additional details, please contact CSI Phoenix Chapter I-Cube Chairman, Tim Garver, CDT, CSI, LEED AP; 602.714.7280 or tim.garver@dunnedwards.com or Mark Roddy, AIA at SmithGroup; 602.265.2200.
By President, Jay Norton

For the second month in a row I’d like to put a plug in for our annual CSI Golf Tournament, the proceeds of which go towards our Scholarship Fund. Dave Spice is once again heading this effort and is looking for sponsors. Please contact him at DAS Products, 480-838-0821 or dspice@dasproducts.com. Our Scholarship Fund, managed by the Ken Lockhart Foundation is one of our most worthy efforts and I urge each of you to support it. Especially in tough economic times such as these it is important to be a sponsor or donor. If your company can’t do that, at least sign up to play a round of golf and bring a client.

Last month I also urged everyone to support AIA Arizona in ECO Month. Well it’s March and we are now IN ECO Month. This weekend is the first of four major events. They are:

Where We Live
Green Home Tour & Lecture
March 6, 2010
1:00 P.M. - 2:00 P.M.
Green Street Development
319 W. Virginia Ave.
Phoenix, AZ
RSVP to diana@aia-arizona.org
20 Steps to Living Green

Where We Work
Green Office Tour & Lecture
March 12, 2010
12:30p.m.
Gensler
Collier Center
201 E. Washington Street, Suite 750
Phoenix AZ 85004
RSVP to diana@aia-arizona.org

Where We Shop
Green Shopping Tour & Lecture
March 20, 2010
11:00a.m.
Community Food Connections
Phoenix Public Market
(NE Corner of Central Ave. & Pierce St., Phoe-
President’s Message (Cont’d)

(Continued from page 2)

it out to all President’s Group member firms/organizations. Just identify yourself as a member of CSI Phoenix.

One last item for you who are interested in some Professional Education. CSI will conduct a series of 3 Webinars the month entitled, “Anatomy of a Specification” They will be held March 16th, March 23rd and March 30th. It costs $150 for all three but the information that you will receive is worth far more than the fee. You can go to the CSI National Web Site to Register and get more information.

See you at our luncheon meeting on Thursday, March 11th at 11:30 A.M.

jay norton
CSI Phoenix

Chapter Meeting Topic Synopsis

An important function of The Construction Specification Institute’s local Phoenix Chapter, is to recognize and honor both the Imagination Cube 09 and Future City 09/10 CSI award recipients.

The Imagination Cube award recognizes imaginative investigation and creative design that explore the potential of a building(s). A different building product/manufacturer is chosen each year from within the CSI’s membership and the companies they represent. The 2009 product/material sponsor was BEMO USA. The award recipients are Luis Cruz-Martinez and Brie Smith. Both Luis and Brie will share their award winning submittal project, “Stationary Movement or How I Learn to Stop Worrying and Love the Hyper Cube.”

The Future City Competition is a national program sponsored by the engineering community to promote technological literacy and engineering to middle school students. The program fosters an interest in math, science, and engineering through hands-on, real world applications. The award recipients are from Villa de Paz School which is in the Pendergast Elementary School District. The award winning team will also be sharing their presentation project “Paradisul.”
Recently the CSI Technical Committee released a survey related to the building envelope. Our intent was to utilize the results of the survey to define some priorities, establish a direction, and to define the method people wanted to see the findings. The first question was to determine what type of a role the responder had regarding the building envelope and if there were issues that stood out for some groups compared to others. This article will provide the results of the questionnaire, along with some insight based on the responses from the individual’s role.

The initial survey was released to approximately 920 individuals, with the lists coming mainly through some key industry organizations, such as CSI. This list was reduced by nearly 200 through invalid email addresses or responses indicating that they were not involved in dealing with the building envelope. We received nearly 170 valid responses (23%) to the survey.

The initial question was used to isolate the individual roles for the responders. The following chart provides the overall percentage results.

* 168 total completed
Technical Committee - Survey Questions and Responses

(Continued from page 4)

In order of majority responders, the roles break down as follows:
- 96 Architect/Designers
- 20 Building Owners/Facilities Managers
- 11 Product Reps
- 8 Consultants
- 6 Structural Engineers
- 4 Mechanical Engineers
- 23 Others (16 of these responders were contractors)

The following chart indicates the importance of various building enclosure subjects.

On a scale of 1 to 5, with 1 being of little importance and 5 being of great importance, how important is it to you to gain additional knowledge on the following building subjects?
TECHNICAL COMMITTEE - SURVEY QUESTIONS AND RESPONSES

(Continued from page 5)

Vapor Retarders/Barriers, Roofing and Energy Codes were the highest ranked subjects. It was also determined that adequate information has been provided for roofing and building insulation for 53% and 43% of the respondents, respectively, for the highest percentages.

Building envelope callback subjects were also asked. Here we were able to see some response variations. Roofing leads the callbacks at 36%, but for the Building Owners/Facility Managers is at 65% and Consultants are at 25%.

Fenestration callbacks are at 5% for an overall average, however the fenestration for the Consultant (25%) and Mechanical Engineer (50%) is substantially more important to address. It should also be noted that the percentages for these two roles will be more affected, as there were only eight and four respondents, respectively.

Expansion Joint/Sealant callbacks average 11%, but 50% for the Structural Engineers. Vapor Retarders/Barriers get 8% of the callbacks, but this is 28% for Product Reps and 25% for Consultants. Energy Codes average 7%, but for Product Rep’s it was 18% and for Mechanical Engineers it was 25%.

Which one of the building enclosure subjects listed have you received the most callbacks from clients regarding a problem?
On a scale of 1 to 5, Air Barriers, Vapor Retarders/Barriers, and Energy Codes were the highest ranking for the most difficult to specify and design at or near 3.0.

The following chart identifies the areas in Arizona that have increased importance. I do not believe it is coincidental that the importance is based on the more populated areas. If the respondent selected a 4 or 5 importance factor for “Other”, a separate question was asked for the location. The seven respondents who selected “Other,” five indicated that the Hopi/Navajo Reservation was of greater importance.

Half of the respondents wanted to see a collection of short articles on a variety of building enclosure subjects compiled into a single publication, a third wanted to see the articles released over a period of time. Classes and Seminars led the “Other” format requests.

A slight majority of respondents wanted to be introduced to new technologies (51%) compared to reviewing and explaining current, proven building envelope technologies (49%). This was driven by the majority of respondents in the Architect/Designer and Others categories looking at new technologies at 56% and 65%, respectively. The desire for new technologies dropped drastically after these with 35% of Building Owners/Facility Managers as the next highest percentage.

Specific design applications (details, performance, and material capabilities) were favored at 70% over general rules and guidelines.

8% were familiar with WUFI, a moisture design software program developed by the Oak Ridge National Laboratories (ORNL) and Germany’s Fraunhofer Institute of Bauphysics (IBP); however, 68% were interested in learning about WUFI. No other moisture software was used by the respondents.

49% of the respondents were familiar with COMCheck, a software program developed by the US Department of Energy (DOE). This consisted of 66% for Architects/Designers and 100% of the Mechanical Engineers. 20% have used COMCheck on a project and 70% would be interested in learning more about the program.

Several different wall systems were listed to identify on which respondents desired to gain additional knowledge. The following graph lists the wall assemblies and their score on a scale of 1 to 5, with 5 being of great importance.
Glazed Curtain Walls ranked the highest. The following list shows those assemblies with highest rankings overall:

- CMU Assemblies
- Assemblies on Metal Studs
- Insulated Concrete Forms
- Precast Concrete Insulated Panels

The results of the survey were a little surprising to me. There were several items in each question that scored high; however, no "smoking gun" stood out. On the opposite side, it’s nice to see the broad based responses and desires of the construction industry that need to be addressed. The Technical Committee will be meeting to define a direction for this information and how we can best serve the industry.

The Technical Committee meets monthly on the second Tuesday of the month. If you would like to contribute to the development of the information, please contact Tim Garver, the Technical Committee Chairman. Tim can be reached at (480) 736-7126.
We ended the first part of this travelogue at the Basilica di Santa Maria del Fiore, the cathedral church of Florence, Italy. As noted, it is one of the more recognizable churches of the world, thanks to its white, green, and red marble exterior. As we moved on to Rome, we expected to see more remarkable churches, and we weren’t disappointed.

Due to the short time we had to plan the trip, we weren’t able to do much research about the cities we visited, so we entered Rome with only a couple of specific goals, the Coliseum and the Pantheon. It might surprise you to know that our itinerary did not include St. Peter’s or the Sistine Chapel. Because we wanted to see a lot, we intentionally omitted many popular places from our itinerary, as we didn’t want to spend a lot of time waiting to get tickets, waiting to get in, and getting trapped in crowds. Instead, we spent the afternoon of our first day in Rome leisurely touring the Coliseum and enjoying a pleasant dinner just a block away.

We started our second day with a visit to the Basilica di Santa Maria Maggiore, conveniently located just across the street from our bed & breakfast. Even though it is one of the four major basilicas of Rome, and considered one of Rome’s most beautiful churches, it probably is overlooked by many visitors due to its distance from better known landmarks. The core of the building dates back to the fifth century, but much of the surrounding structure was constructed or updated in 14th through 17th centuries. Even after the wonders of Florence, the interior was amazing, with scintillating mosaics, intricately carved marble columns, coffered ceilings, and a series of chapels off each side of the nave, each of which would serve admirably as the main altar of a more ordinary church.

We next took a tour of the city on a double-decker bus, where we were fortunate to get seats on the upper level. Yes, it is touristy, but it’s a good way to get a relatively quick idea of where to find some of a city’s major attractions. We got off the bus near the Trevi Fountain and headed for the Pantheon. Being in the home of the Roman Catholic Church, we expected to find a number of churches, and along the way to the Pantheon, it seemed we found yet another church every block or two. We soon found Santi Vincenzo e Anastasio a Trevi. Despite the imposing collection of eighteen Corinthian columns surrounding its immense door, the front is fairly plain, especially in the presence of the Trevi Fountain, which it faces. Relatively small, I suspect this church is often overlooked; we found it by accident while trying to get a good picture of the fountain. I noticed the door was open, so in typical tourist manner I walked inside. Built in the mid-seventeenth century, the baroque interior is beautifully lit by clerestory windows. Near the entry is a twentieth-century interpretation of the collection of

(Continued on page 10)
votive candles found in many Roman Catholic churches - a brass box with forty-five artificial candles, each with an electric bulb and corresponding switch. Also in this church, though we did not know it at the time, are the hearts and other viscera of twenty-five popes. Maybe we'll look for those the next time we're in Rome.

Our next stop was Sant'Ignazio Di Loyola, another baroque church built in the seventeenth century. Much larger than Santi Vincenzo e Anastasio, the interior is stunning; no surface was left untouched by some form of decoration - marble columns in countless colors, some looking like corkscrews; inlaid marble floors; intricate altars and ornaments; and magnificent frescoes that visually extend the walls through an apparently infinite heaven above. It is said that nearby residents prevented the architect from placing a dome over the crossing, as it would have created too much shade. The response was an interesting tromp l'oeil dome, which is quite convincing from near the center of the nave.

Just two blocks from the Pantheon is Santa Maria Sopra Minerva, reportedly the only gothic church in Rome. The exterior is so plain and simple that it doesn't look at all like a church, but the interior, though less ornamented than the baroque churches, is achingly beautiful. Rich marble columns and walls are a backdrop for ornate altars, and stained glass windows provide additional color. Gold arches spring from the tops of the columns, outlining a ceiling of intense blue with a few simple paintings and countless gold stars. Unfortunately, we arrived just before a wedding, so we were unable to see much of the church, and because I refrained from using a flash, I didn't get any good pictures. The body of St. Catherine of Siena is buried here - but not the head, which was spirited away to be entombed in Siena.

Our last stop in Rome is the Pantheon, one of the most popular destinations in Rome. Built in its current form about 125 AD, it originally was a temple for all gods, becoming a Christian church in 609. With an interior diameter of 142 feet, it was the largest dome of any kind for 1,300 years, and remains the largest unreinforced concrete dome. The structure itself is the main attraction of this building. The coffered ceiling overwhelms the few altars and tombs that were added later, and the enormous, twenty-ton bronze doors look just the right size for the portico. This is a building that truly must be seen to be appreciated, as its spherical shape makes the interior essentially unphotographable.

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http://swconstructivethoughts.blogspot.com/
(Continued from page 10)

Blog: [http://swconstructivethoughts.blogspot.com/](http://swconstructivethoughts.blogspot.com/). Along with my monthly articles, I’m starting to talk about construction topics. Drop in when you have a few minutes; while there you can become a follower or sign up for updates.

Twitter: [http://twitter.com/swolfearch](http://twitter.com/swolfearch).

Larry Fredlund, Minneapolis-St. Paul Chapter member, offered to spice up our newsletter with a monthly cartoon series about a character named “CeSIl”. Email Larry at [FredlundLS@pella.com](mailto:FredlundLS@pella.com) with comments. (Thanks, Larry! - Editor)
CURMUDGEON’S CORNER—TRAVELOEGUE, PART II: CATHEDRALS AND CHURCHES

Santi Vincenzo e Anastasio nave

Santi Vincenzo e Anastasio altar

Santi Vincenzo e Anastasio candles
CURMUDGEON’S CORNER—TRAVELOGUE, PART II: CATHEDRALS AND CHURCHES

Sant’Ignazio Di Loyola nave

Sant’Ignazio Di Loyola chapel

Sant’Ignazio Di Loyola ceiling
CURMUDGEON’S CORNER—TRAVELOGUE, PART II: CATHEDRALS AND CHURCHES

Sant'Ignazio Di Loyola chapel

Sant'Ignazio Di Loyola faux dome
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angie.franche@sherwin.com
yarish.m@owp.com

C A C T U S  C O M M E N T S
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<tr>
<th>MARCH 03</th>
<th>InPro Corporation, Jim Bandle, 602-502-1168</th>
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<td>Fighting the “Super Bugs:” Interior Materials that Aid in Infection Control – the four objectives are: understand the history and impact of Hospital Acquired Infections, how fabrics used in healthcare environments can become vectors of infection, identify various fabric technologies used to fight pathogens, and learn how “silane” based technology is a solid weapon in halting the spread of HAIs.</td>
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<th>MARCH 10</th>
<th>DOW, Larry Shelton, 480-234-0149</th>
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<td>This program is designed to provide the design community with the knowledge to make informed decisions when specifying a system solution in steel stud wall assembly that will deliver high thermal performance, moisture management, as well as minimize air infiltration in steel stud wall assemblies.</td>
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<tr>
<th>MARCH 17</th>
<th>Green Guard/Pactiv, Roni Baker, 602-992-0304</th>
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<td>Designing Water-Managed &amp; Energy-Efficient Building Enclosures Water is the catalyst that begins the deterioration process in buildings, the germination process for mold, and the loss of energy efficiency in any material that can get wet. As rainwater is the primary wetting agent of building enclosures and will make its way behind all cladding types, it is critical to design drainage capability to remove it. In the air-conditioned enclosures of the Southwest, it is also important to understand how water vapor accumulation in the wall cavity can lead to condensation issues. The “Green” buildings of today can only be durable, sustainable, and energy-efficient if they are kept dry.</td>
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<tr>
<th>MARCH 24</th>
<th>K2 Commercial Hardware, Bob Escudero, 623-229-7818</th>
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<tr>
<td>Understanding Basic Commercial Hardware and Life Safety Applications – The presentation will cover exit devices, door closers, levers, cylinders, and keying. Also, life safety hardware considerations will be discussed. Commercial hardware is one of the least thought about elements while planning a project, but one of the most important elements at the end of a project.</td>
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<th>MARCH 31</th>
<th>Republic Storage, Frank de la Torre, 805-823-3328</th>
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<td>This presentation will define: criteria for identifying the owner’s locker requirements, parameters for making sound product selections based on those requirements, and process to document the owner’s locker requirements in project specification based upon project lifecycle criteria.</td>
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<th>PLEASE MAKE RESERVATIONS FOR THE FOLLOWING SEMINARS:</th>
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| COMPANY | |
| PHONE | |

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Acoustical Ceiling Systems: a discussion on the properties and performance characteristics and the six factors to be examined when selecting an acoustical ceiling panel: sound control, fire resistance, abuse resistance, moisture control, aesthetics, and sustainability. Participants will be able to select and design an appropriate acoustical ceiling system as required by a project's design criteria and programmatic requirements.

The program will discuss: why protection is needed, site survey and system selection, definition of common terms, current technology and product types, selection options, surface preparation, field quality assurance, and project trouble shooting.

PLEASE MAKE RESERVATIONS FOR THE FOLLOWING SEMINARS:

MARCH 11
USG, Steve Ramirez, 623-853-3095
1 AIA LU

MARCH 25
BASF, Kent Jones and Dick Goff, 623-764-0152
1 AIA LU

Learn about new products  no charge & breakfast provided from 7:30 - 8:30 am  AIA Members 1 hour credit

location: Marie Callender’s, 865 S. Dobson, Mesa, Arizona

NAME(S)
(limit 3 from one company)

COMPANY  PHONE

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Email  jill@thereferencelibrary.com  or  louise@thereferencelibrary.com
Architectural Applications for Perforated Metal, Expanded Metal and Wire Mesh

This course provides an overview of the architectural applications of perforated metal, expanded metal, and wire mesh products including descriptions of metal, types, and mechanical finished. “Get The Hole Story”

This interactive presentation will begin by discussing the history of resins. Next we will cover the themosets and thermoplastics, compare and contrasts material characteristics, benefits, and deficiencies (acrylic, copolyester, polycarbonate, high density polyethylene). Next, we will cover mechanical, thermal, flexural, and application properties of each material. And lastly, UV and chemical resistance and other attributes of each material.

PLEASE MAKE RESERVATIONS FOR THE FOLLOWING SEMINARS:

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<th>Date</th>
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<th>Contact Information</th>
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<tr>
<td>MARCH 4</td>
<td>McNichols CO.</td>
<td>Joe Hornstrom, 602-321-9243</td>
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<td>MARCH 18</td>
<td>3form</td>
<td>Mike Glaser, 480-980-4851</td>
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(limit 3 from one company)

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PHOENIX CHAPTER CSI
16TH ANNUAL GOLF TOURNAMENT

BENEFIT: Phoenix Chapter Scholarship Fund

LOCATION: VISTAL GOLF CLUB
701 E. Thunderbird Trail, PHX 602.305.7755
www.vistalgolfclub.com
* SEE website for directions

DATE/TIME: SATURDAY MAY 8, 2010 7:30 AM

FORMAT: SHOTGUN START, 4 PERSON SCRAMBLE
Field limited to 72 players. Entry DEADLINE: APRIL 16, 2010
First come, first serve. Proper golf attire required.

FOOD: “RANCH COOKOUT” HAMBURGERS & CHICKEN INCLUDED

PRIZES: 1ST & 2ND PLACE
LONGEST DRIVE – MEN & WOMEN
RAFFLE PRIZES: TICKETS AVAILABLE AT REGISTRATION TABLE

Back by Popular Demand!
ONE SHOT HOLE IN ONE: $500.00 Cash
ONE SHOT CLOSEST TO PIN: $100.00 Cash

MULLIGANS: $5.00 EACH, LIMIT 4 PER PLAYER AVAILABLE AT REGISTRATION TABLE

ENTRY FEE: $90.00 Per Player: Included Green Fees, Cart. Surprise and Awards Luncheon.
Must be paid at Registration or before.

HELP THE CHAPTER’S SCHOLARSHIP FUND
BE A SPONSOR!
We would like to recognize last year’s Sponsors:

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<td>PARTITIONS &amp; ACCESSORIES</td>
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16th Annual CSI GOLF TOURNAMENT
SPONSOR & REGISTRATION FORM
SPONSORSHIP OPPORTUNITIES

1. **BRONZE: $50** – includes a hole sign, your Company Name in any advertising, and recognition at the luncheon following golf.

2. **SILVER: $100** – includes a hole sign, your Company Name in any advertising, and recognition at the luncheon following golf. **BONUS: Round of golf for ONE (1) player at a later date!**

3. **GOLD: $300** – includes all of the BRONZE items PLUS two rounds at no charge in tournament. **BONUS: Round of golf for TWO (2) at a later date!**

4. **PLATINUM: $500** – includes all of the above PLUS four rounds of golf at no charge in the tournament. **BONUS: Round of golf for FOUR (4) at a later date!**

Please review and complete the REGISTRATION form noting whether you are a Sponsor or Player. Contact **DAVE SPICE** at 480-894-9858 (W) OR 480-213-4534 (M) for any assistance.

Sincerely,

Dave Spice, CSI

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REGISTRATION FORM

NAME/S: _____________________________________________________________________________________________

COMPANY: ______________________ PHONE: __________(W) __________(H)

ADDRESS: ______________________ CITY: _______________ ZIP: _______________

BRONZE SPONSOR ____ ($50) SILVER SPONSOR ____ ($100) GOLD SPONSOR ____ ($300) PLATINUM ____ ($500)

REGISTRATION: SINGLE: ____ TEAM: ____

ENTRY FEE: $90.00 per Player (MAKE CHECKS TO: PHOENIX CHAPTER CSI)

ENCLOSED: $ __________________

*SEND TO:

DAVE SPICE, CSI 480-894-9858 (W) or 480-213-4534 (M)

DAS PRODUCTS or Fax @ 480-838-0821

8620 EAST OAK STREET

MESA, AZ  85207

DATE/TIME: SATURDAY MAY 8, 2010  7:30 AM SHOTGUN

LOCATION: VISTAL GOLF CLUB (7th Street/South of Baseline) 602-305-7755

USE THIS FORM FOR SPONSORSHIP AND/OR REGISTRATION