



2009 Membership Information

Alliance for Construction Excellence

Del E. Webb School of Construction

Ira A. Fulton School of Engineering

at Arizona State University

P.O. Box 870204

Tempe, AZ 85287-0204

Phone : (480) 965-5324

Fax : (480) 965-8172

Email: ace.asu@asu.edu

Web : <http://construction.asu.edu/ace>

The Alliance for Construction Excellence



The Alliance for Construction Excellence (ACE) is concluding its sixteenth year as an organization. As an integral part of the Del E. Webb School of Construction and the Ira A. Fulton School of Engineering at Arizona State University, ACE has provided a non-partisan environment in which members of our industry can meet and address issues that concern us all. Over seven hundred people from our industry come to ASU each year to participate in task forces and forums hosted by ACE and to serve as guest lecturers, teaching seminars and workshops. This extensive industry participation provides a very valuable link between our research efforts and current industry concerns. The School of Construction at ASU is geared toward improving our industry through research and education. The DEWSC does more research than any other program of its type in the world. ACE supports the school in this endeavor. Through its task forces, ACE has provided an avenue through which industry can invest in this research. Results of these efforts are exemplified by the work of the Performance Based Studies Research Group (PBSRG) headed by Dr. Dean Kashiwagi and the Construction Research and Education in Advanced Technology Environments (CREATE) headed by Dr. Allan Chasey, as well as significant work in Project Delivery Methods under the direction of Dr. James Erzen. The school has also demonstrated its world class stature with research programs in Sustainable Development Applications in Construction by Dr. Howard Bashford, Trenchless Technologies (Horizontal Directional Drilling and Pipe Bursting) by Dr. Sam Ariaratnam, **Construction Process Modeling and Simulation by Dr. Anil Sawhney, and Computerized Methods in Construction Planning by Avi Wiezel, among others that are equally important.**

The construction industry is the largest economic engine of the United States. It is the largest tax-paying sector when homebuilding and facility maintenance and renovation are included. It is the bellwether of good economic times and bad. The School of Construction at ASU has played a vital role of an entrepreneurial partner with the industry. ACE has been both an outreach and an inreach organization, and has strived to apply talent, resources, and the research of the best university programs in the world to help move us all to better times.

It is imperative for our economy and our quality of life that the construction industry continues to improve productivity. It is just as imperative that everyone invest in this important economic engine and understand just how important this is to our way of life. There is much to do. Please join us at ASU in supporting our efforts.

Sincerely,

Gary L. Aller, Director
Alliance for Construction Excellence

The Alliance for Construction Excellence



Mission of the Del E. Webb School of Construction

The school is a source of construction wisdom, committed to exploration and discovery through an integrated experiential education model. We are a unified body of faculty, building partnerships to produce conscientious innovative professionals who are changing the construction industry.

The Del E. Webb School of Construction (DEWSC) is number one nationally in several areas, but we are especially proud of the fact that we lead the country's other programs in supporting great students by providing more than \$200,000 in scholarships. Our staff of outstanding faculty lead the nation in construction research. One facet that makes our program unique is that we are an engineering based program housed in the College of Engineering and Applied Sciences.

We have many years of experience. ASU has offered a Bachelor in Science degree with a major in construction for 45 years, and 20% of our graduates are owners, CEOs or executives of their companies. In addition, 30% of DEWSC's female graduates are owners, CEOs or executives of their companies. DEWSC consistently experiences a 100% placement of its graduates.

Currently, DEWSC offers both a Bachelor of Science and a Master of Science degree. ASU's administration is in the final stages of approving a Ph.D. program in Construction. The undergraduate degree offers four concentrations: General Construction (Industrial & commercial building); Heavy Construction (Roads, bridges, dams, & tunnels); Residential Construction (Homes, apartments, & condominiums); and Specialty Construction (Mechanical and Electrical). Areas of concentration for the Master of Science degree include: Construction Management; Construction Science; and Facility Management. Most of the graduate courses are offered in the evening to accommodate the working professional.

The Alliance for Construction Excellence provides a link between the research completed at the school and industry. Examples of active research include:

Cleanroom Construction

Dr. Allan Chasey

CREATE, a research organization in the Del E. Webb School of Construction, is a consortium of 30 companies providing innovative and practical ways to improve the delivery process of advanced technology facilities. The focus is on the development and implementation of a systems-based research program covering the life-cycle of the construction process for high technology manufacturing facilities, from "cradle to grave".

Performance Based Procurement

Dr. Dean Kashiwagi

Performance Based Studies Research Group (PBSRG) began in 1994 at Arizona State University's Del E. Webb School of Construction. PBSRG is the national leader of performance based procurement research. PBSRG developed the Performance Information Procurement System (PIPS), an artificial intelligent procurement system, which is specifically designed to minimize the influences of subjectivity and bias in procurement decisions. \$3.5M of research has been conducted in the last 7 years, and 31 research projects have been completed.

Alternative Project Delivery Systems

Dr. James Ernzen

Research in the area of Alternative Project Delivery Methods is led by Dr. James Ernzen, who is also the faculty chairperson of the Alternative Project Delivery Methods (APDM) Task Force, which led the development and passage of Arizona House Bill 2340 allowing Arizona's public works agencies to use the Job Order Contracting, Construction Manager at Risk, and Design Build methods of building construction projects. Dr. Ernzen's other research projects include project management and safety; reinforced concrete design and construction; and high performance concrete materials.

The Alliance for Construction Excellence



Mission

The mission of ACE is simply to **Advance**, **Collaborate** and **Enrich** the construction industry.

Who Are the Members?

Members of ACE include owners, prime and subcontractors, architects, engineers, suppliers, and a host of support organizations with a myriad of interests and perspectives.

Benefits of Membership

- Education:** We offer a variety of educational opportunities for construction professionals in classes taught by a mix of industry professionals and university professors to provide a look at the research without ignoring the 'real-life' issues. Courses include:
 - Training in all areas of Project Delivery Methods
 - Design Build Courses
 - Del E. Webb School of Construction Eminent Scholar Program
 - Executive Leadership Courses
 - On-Line Training
- Networking:** Each month owners and contractors discuss millions of dollars worth of upcoming work at our monthly task force meetings and forums.
- Image:** One goal of ACE is to enhance the image of the construction industry by providing a greater awareness of the indispensable role construction plays in the national economy.
- Research:** ACE has helped develop research in the areas of alternate project delivery methods, cleanroom construction and performance based contracting.
- Potential Employees:** Membership in ACE provides access to some of the best and brightest construction graduates through the Del E. Webb School of Construction, one of the top construction schools in the country.
- Neutral Territory:** As part of a university, ACE is neutral territory for owners, contractors, specialty contractors, suppliers, architects, engineers and others interested in the construction industry. We provide a platform for the sharing of information and ideas for the improvement of the construction industry as a whole.

Benefits Coming in 2009:

- A "members-only" web area offers access to upcoming APDM construction projects and a searchable database of information about contractors' experience with APDM
- Model APDM construction documents including contracts, requests for proposal and requests for qualifications.
- Online Resource Library with articles and publications for ACE members. Some publications will be free and others will be offered at a discount to members.

Location

Located on the campus of Arizona State University, ACE exists in partnership with the Del E. Webb School of Construction and the Construction Industry. To support the mission of ACE, the Industry Advisory Council and the Del E. Webb School of Construction direct and authorize ACE to proceed with education, seminars and task forces.

The Alliance for Construction Excellence



Membership Application

Annual Membership Dues*

Sustaining Member	\$2,200
Corporate Member	\$1,100
Government/Public Agency	\$550
Individual	\$275

Primary Contact

Name & Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

Website _____

Additional Contacts

If there are others in your organization who should receive notification about meetings and courses, please list them. For more than four names, please list them on a separate sheet of paper.

Name _____ Email _____

Name _____ Email _____

Name _____ Email _____

Name _____ Email _____

Payment Options

Funds will be deposited into the ASU Foundation, a separate nonprofit organization that exists to support Arizona State University.

► Check Payment

Check must be made payable to **ASU Foundation** and mailed to:
ACE at ASU, PO Box 870204, Tempe, AZ 85287-0204

► Credit Card Payment (Visa, MC, AMEX, Discover)

Please contact the ACE Office at 480-965-4246.

► To be invoiced or pay with a Purchase Order

Please Contact the ACE Office at 480-965-4246.

For additional information, please visit <http://construction.asu.edu/ace> or call (480) 965-4246.

*Market Value for Sustaining, Corporate and Government Memberships is \$550 (\$275 for Individual)

Advance Collaborate Enrich

The Alliance for Construction Excellence



ACE Executive Advisory Board

ACE has an executive Advisory Board that is comprised of individuals from faculty and industry. The Advisory Board advises ACE regarding trends in the market place and current issues. The following individuals are members of the ACE Advisory Board.

Wylie Bearup, Director, Interim Street
Transportation
City of Phoenix

Bo Calbert, President
McCarthy Building Companies, Inc.

David Carrithers, VP Marketing
Centennial Contractors Enterprises, Inc.

Dave Crawford, President and
Eric Hedlund, Sr. Vice President
Sundt Construction

Kip Edwards, Systems Vice President
Design & Construction
Banner Health

James Ernzen, Director
Del E. Webb School of Construction. ASU

Mike Ford & Dave Elrod
DPR Construction

Jim Fritcher, Senior Vice President,
Construction
Opus West

Mike Gonzalez, Vice President &
General Manager
Kinetics

Ted Haig, CFO
DAMAC Properties, Dubai

David Jarrett, Director, Design & Construction,
Catholic Healthcare West

Steve Kinkel, President
United Metal Products

Mike Ladino, General Counsel
Valley Metro Rail

David Mahaffey, Sr. Vice President, Regional
Manager
Black & Veatch

Michael Medici, President
Smith Group

Tom Sorley, President
Rosendin Electric

Rob Smalley, VP- Preconstruction Services
University Mechanical

Richard Usher, CEO & Managing Member
Hill & Usher

Tom Weise
Emeritus Advisor

Dan Withers, President
D.L. Withers

Tauny Woo, Acting City Engineer
City Of Phoenix

Paul Wood, President & CEO
Faithful + Gould

The Alliance for Construction Excellence



Seminar and Workshop Descriptions

Construction Manager at Risk: Using the Construction Manager at Risk (CMAR) method, the construction firm is chosen as soon as the A/E is contracted and performs pre-construction services, such as constructability reviews, during the design phase. In some instances, subcontractors are also consulted during the design phase and may participate in prequalification. Successful use of the CMAR method depends on establishing an excellent project team that identifies common goals and works together to solve problems quickly as they arise. The project team, including the A/E, the CMAR, the public works agency, and sometimes key subcontractors and regulatory staff, is established at the start of the project. This approach combines the knowledge and skills of all parties to ensure that the design meets the needs of the client in terms of function, schedule, and budget, and that the project is constructible as designed. This minimizes the risk to all parties. In addition, the CMAR is chosen based on qualifications and is motivated to build the highest quality project possible in order to establish a reputation for excellence, leading to good recommendations and future business.

Design Build: Unlike the traditional Design Bid Build and the alternate CMAR methods, using the Design Build (DB) method entails hiring one firm to handle both the design and construction of the project. The DB firm is hired by a qualifications-based selection process, which may include a design competition as a second phase of the process. One firm is responsible for all aspects of the project, which eliminates the adversarial relationship that sometimes develops between the A/E and the contractor. With one point of control, projects can often be accomplished much faster, with construction beginning prior to design completion. However, the DB process is more complex than CMAR or the traditional method and requires a new way of thinking, emphasizing positive working relationships. The adversarial way of thinking that is prevalent in the Design Bid Build process will result in unsuccessful projects when using the DB method. Because there are such worthwhile advantages to using the DB method, it pays to learn how to use it correctly.

Job Order Contracting: Job Order Contracting (JOC) is a way of getting small, simple, and commonly encountered construction projects done easily and quickly. A JOC contract usually applies to a specific site or sites and can be used for any number of jobs that arise during the term of the contract. The JOC delivery method is particularly well suited to repetitive jobs and situations in which public works entities know that many small tasks will arise, but the timing, type of tasks, and quantity of work are unknown when the contract is established. Many diverse tasks such as routine maintenance, upgrades, renovations, alterations, and minor construction are efficiently handled using a single JOC contract. JOC jobs usually have minimal design requirements. The greatest advantage of the JOC method is that there is no need to bid each job because price is calculated using a standard procedure defined in the contract. This allows rapid completion of work. As home of the Center for Job Order Contracting Excellence, ACE is a great place to learn how to use the JOC method.

Project Delivery Methods for Public Works: This course is an overview of the three Project Delivery Methods; Construction Manager at Risk (CMAR), Design Build (DB) and Job Order Contracting (JOC).

Construction Management Certificate Program: This 15 week, non-credit CEU certificate program is directed at individuals who are currently in the construction industry who need or want more formal construction management knowledge. The program is geared to the working professional and offered in the evening, one night per week for 4 hours. Topics include Introduction to Construction, Managing the Construction Enterprise, Business Law, Contracts, Licensing and Code, Construction Accounting, Cost Control Systems, Materials, Blueprint Reading, Quantity Takeoff, Estimating, Structures: Concrete, Steel, Timber, Wood and Metal, Mechanical and Electrical Systems and Planning and Scheduling.



Seminar and Workshop Descriptions (Continued)

Project Management Certificate Program: This 15 week, 60 hour, non-credit CEU certificate program will help to develop personal leadership and team building skills to increase your value to the organization. The course will cover more than the “construction phase” of a project. Developers, Construction Managers, Owners, Architects, Engineers, Contractors, and construction professionals from every discipline will benefit from this program.

Preparing the Interview Team for Success: This two day course will present highly effective marketing/presentation strategy techniques that will give general contractors, architects, project managers, superintendents, estimators and subcontractor consultants a thorough understanding of what works and what does not work when interviewing for public sector projects. The course will broaden the interview team’s knowledge of the entire marketing process to effectively attract new public-sector client relationships and interview more effectively. Direct public sector feedback will be given by a panel of Owners.

Public Private Partnerships: Public Private Partnership is a phrase that is used loosely in the United States that applies to cooperative ventures between public and private sectors. When the topic is narrowed to capital projects, there is still a full spectrum of terminology and methods that spans between public sector agency agreements to full privatization. In order to sort through these means and methods, the second annual ASU Public-Private Partnership & Private Finance Initiative Conference will look deeper into areas of PPP/PFI Structures, the basics on how to build a Business Case (perhaps the most important), Risk Allocation, Pitfalls, Life Cycle Costing and its impact on PPP, Performance Specifications, Insurance and Financing along with some incredible case studies from successful practitioners.

Selection Panel Training Workshop: This half day workshop will provide participants with critical knowledge of the APDM Selection Panel process. The success of every APDM project is highly dependent on the Selection Panel choosing the best firm/team for the project. In order for the Selection Panel to achieve the very best results, the Panel members must understand their roles and responsibilities; the Arizona State Revised Statutes; the intent of the law; the qualifications the Panel members should have; the project criteria and how it is applied; a clear understanding of how the scoring is to be done; working with other Panel members and coming to a consensus.

Executive Leadership Conference: This leadership conference is for senior executives in the the construction industry. Attendance is reserved for executives with significant leadership experience in Owner and Contractor organizations who have demonstrated potential to attain the highest leadership positions within their organizations.

Financial Boot Camp for Non-Financial Construction Executives: Designed for executives, managers and supervisors in Contractor, CM, designer and owner organizations who need to more fully understand the accounting and financial side of the construction business and is a must for those destined for highest leadership positions within their organizations.

Building Information Modeling: Modeling is the development and use of a computer software model to simulate the design, construction and operation of a facility. The resulting model, a Building Information Model, is data-rich, object-oriented, intelligent and parametric digital representation of the facility from which views and data appropriate to various users’ needs can be coordinated, extracted and analyzed to generate information that can be used to make decisions and improve the process of delivering the facility.*
Building Information Modeling provides a tool for collaboration by all stakeholders of the project. Benefits of using BIM are shared by owners, architects, engineers, general contractors, subcontractors and vendors.

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Complete and return the form to **ACE**, Arizona State University, PO Box 870204, Tempe, AZ 85287-0204 • Telephone: (480) 965-5324 • Fax: (480) 965-8172 • Web: <http://construction.asu.edu/ace>

Course: _____

Start Date: _____

ACE Member Type (Circle One): Sustaining Corporate Government Individual Non-member

Company Name: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Registrants (please photocopy this form for additional registrants)

Name: _____ Email Address: _____

Title: _____ Phone: _____ Fax: _____

Name: _____ Email Address: _____

Title: _____ Phone: _____ Fax: _____

Name: _____ Email Address: _____

Title: _____ Phone: _____ Fax: _____

Registration Fee

ACE members:* 2 Day = **\$589**; 1 Day = **\$299**; 1/2 Day = **\$199**

Non-members: 2 Day = **\$659**; 1 Day = **\$329**; 1/2 Day = **\$229**

For information regarding group discounts and course fees, please contact Jacki Houchens at (480) 965-5324.

Payment Options

Check: Make payable to **ASU**

Invoice: Contact the ACE Office at 480-965-4246.

Credit Card: Contact the ACE Office at 480-965-4246.

ACE Cancellation Policy

All cancellations must be made in writing to ACE via fax, email or regular mail. Substitution of another person from your company is permissible at any time prior to the start of the course. Call the ACE office to discuss your cancel/substitution circumstances. Cancel 15-30 business days out: Receive a refund MINUS an administrative fee equal to 10% of the total registration fee. Cancel 4-14 business days out: Receive a refund MINUS an administrative fee equal to 25% of the total registration fee, or transfer to another scheduled course (excluding Certificate Programs and Executive Leadership Programs) for a fee equal to 10% of the total registration fee. Cancel 0-3 business days out: No refund. You are responsible for full course fee. No Shows: No refund. You are responsible for full course fee.

*Annual membership fees start at \$275



2009 ACE Task Force Meetings

Project Delivery Methods (PDM) Task Force (1st Thursday of each month): The PDM Task Force meets to discuss projects and issues and lessons learned in the area of project delivery.

Dates:

January 8
February 5
March 5
April 2
May 7
June 4
July 2
August 6
September 3
October 1
November 5
December 3

Renewable Energy Task Force (2nd Wednesday of each month): The Renewable Energy Task Force will explore issues important in the areas of renewable energy and sustainability and the effects on construction projects.

Dates:

January 14
February 11
March 11
April 8
May 13
June 10
July 8
August 12
September 9
October 14
November 11
December 9

Public Private Partnership (PPP) Task Force (3rd Tuesday of each month): The PPP Task Force seeks to provide education on PPP's. Legislation is hoped to pass this year and the use of PPP's for projects.

Dates:

January 20
February 17
March 17
April 21
May 19
June 16
July 21
August 17
September 15
October 20
November 17
December 15

The Alliance for Construction Excellence



7th Annual ACE Golf Tournament

The 7th annual ACE Golf Tournament will be held at **Troon North Golf Club** at 10320 E. Dynamite Blvd., Scottsdale, Arizona on **Friday, December 4, 2009** with an 11:30 a.m. shotgun start. The format will be four man scramble. A social will follow the golf tournament with hors d'oeuvres and prizes.

The Golf Tournament registration fee includes:

- Goodie Bag
- Green Fees and Cart
- Golf Balls
- Practice Range
- Box Lunch
- Prizes



Registration Fee

\$2,500 / Major Sponsor

\$1,600 / Foursome

Other sponsorships are available. A portion of the proceeds will benefit a Ph.D. Fellowship with the Del E. Webb School of Construction.

Fax Completed registration form to **(480) 965-8172**. For additional information call **(480) 965-9359**.

Company Name: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Contact Person Name: _____ Phone: _____

Email: _____ Fax: _____

Major Sponsor Foursome (Fair Market value/golfer \$450*)

Player 1 Name: _____ Player 2 Name: _____

Player 3 Name: _____ Player 4 Name: _____

Payment Options

Check: Make payable to **ASU Foundation**. Funds will be deposited into an account with the ASU Foundation, a separate non-profit organization that exists to support Arizona State University. Mail check to: ACE, PO Box 870204, Tempe, AZ 85287-0204.

Credit Card: Please contact the ACE office at 480-965-4246.

Invoice: Please contact the ACE office at 480-965-4246.

ACE Substitution/Cancellation Policy

Substitution of another person from your company is permissible at any time prior to the start of the tournament. Call the ACE office to discuss your substitution/cancel circumstances.

**Due to the value of benefits provided, only payments in excess of fair market value may be considered a charitable contribution. (Account #30-A-MECN0010/Campaign Code ECNGE8)*