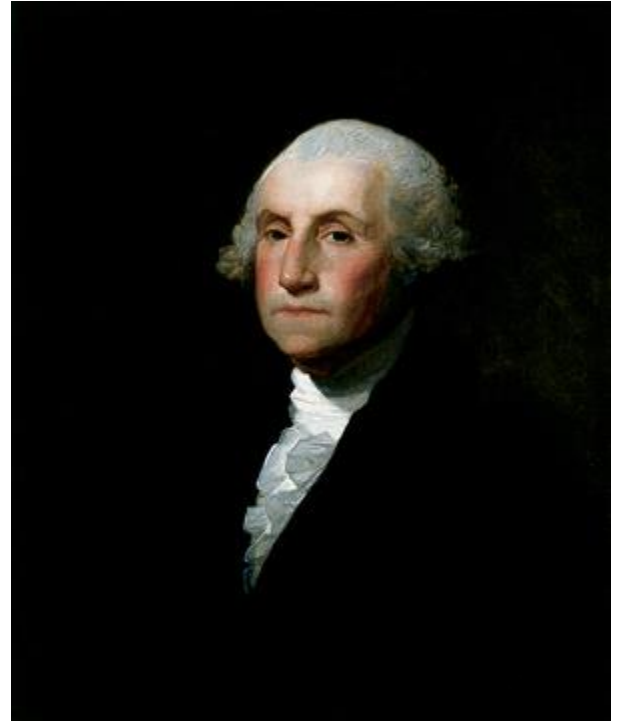


ACEC of Arizona 37th Annual Engineering Excellence Awards

The American Council of Engineering Companies of Arizona **Engineering Excellence Awards** competition recognizes engineering firms for projects that demonstrate an exceptional degree of innovation, complexity, achievement, and value.

Arizona projects are rated on the basis of uniqueness and/or innovative applications of new or existing techniques; future value to the engineering profession and perception by the public; social, economic, and sustainable development considerations; complexity; and successful fulfillment of client/owner needs.

Engineering Excellence is the cornerstone for increased visibility and expanded business opportunities. You now have a platform to showcase your project(s) and be recognized by your peers and engineering community at large. The winning projects will be displayed for one year in the Garden Room of the University Club (39 East Monte Vista, Phoenix) and featured on the ACEC of Arizona website (www.acecaz.org).



*“George Washington”
by Gilbert Stuart – 1796
Phoenix Art Museum*

Please Submit Your Official Entry Form to:

**Engineering Excellence Committee
1309 East Echo Lane, Phoenix, AZ 85020**

Questions, please call 602-995-2187

Deadline Date: Friday, August 18, 2017

**Engineering Excellence Awards Banquet
Saturday, September 23, 2017**

**Phoenix Art Museum
1625 N. Central Ave., Phoenix 85004**

Thirty-Seven Years of Engineering Excellence in Arizona ...

ELIGIBILITY

All engineering and surveying firms (*ACEC members and nonmembers*) are eligible to enter the awards program.

GENERAL CRITERIA

- ✚ Projects entered in the competition may have been executed anywhere in Arizona. “Research and Studies” or “Surveying and Mapping” projects must have been publicly disclosed by the client between November 1, 2015 and August 18, 2017. Construction of projects must be substantially completed and ready for use between November 1, 2015 and August 17, 2017.
- ✚ As stated under “How to Submit an Entry”, each entry must be accompanied by the official entry form, project notebook, photographic display panel, thumb drive, and entry fee. Non-compliance with the rules will automatically disqualify an entry. Please read the requirements thoroughly.
- ✚ ACEC of Arizona will not be responsible for any damage or loss to entrant’s panel or notebook.
- ✚ The Engineering Excellence Awards Committee reserves the right to determine eligibility of entries.

JUDGING

A distinguished group of professional engineers possessing a vast array of built environment and technical expertise will convene for one day to evaluate and rank submissions for overall engineering excellence and the work performed by the entering firm only. *Refer to the “Rating Guidelines for Judging.”*

AWARDS

All submissions are considered ACEC of Arizona Honor Award Winners. The panel of judges will rank each project selecting the top entries to be designated as “Grand Awards” and the top scoring project as the “Judges Choice Award.” Judging will take place on August 23rd.

All submissions will be notified by August 25th as to whether they are “Grand Award” or “Honor Award” recipients. The “Judges Choice Award” (top scoring project) will be announced at the awards banquet on September 23rd. Firms and Owners/Clients will be recognized during the awards ceremony, plus all project panel boards will be on display that evening.

In addition, during the reception (5:30 to 6:30 p.m.) attendees at the Awards Banquet will have the opportunity to cast their vote for the “People’s Choice Award.” The project receiving the most votes from attendees will be singled out for special recognition at the Awards Ceremony on September 23rd.

RATING GUIDELINES FOR JUDGING

Each entry will be evaluated based on the following five categories, which are key elements of the project description text required in the submittal described below:

- 20%** Uniqueness and/or Innovative Applications of New or Existing Techniques
- 20%** Future Value to the Engineering Profession and Perception by the Public
- 20%** Social, Economic, and Sustainable Development Considerations
- 20%** Complexity
- 20%** Successful Fulfillment of Client/Owner Needs

100% Total

RATING GUIDELINE DEFINITIONS

Uniqueness and/or Innovative Applications of New or Existing Techniques:

- ✚ Does the entry demonstrate the use of a new science or a breakthrough in the general knowledge of engineering?
- ✚ Does the entry represent a unique application of new or existing technology, techniques, materials, or equipment?

Future Value to the Engineering Profession and Enhanced Public Awareness/Enthusiasm of the Role of Engineering:

- ✚ Will the entry redefine current engineering thinking?
- ✚ Does the entry increase public awareness/enthusiasm about the role of engineering in their everyday lives?

Social, Economic, and Sustainable Development Considerations:

- ✚ Do the solutions identified produce secondary benefits of value to the community environment?
- ✚ Does the entrant's approach provide society with social, economic, or sustainable development benefits?
- ✚ Does the entrant's contribution to the project improve the health, safety or welfare of the public or affected environment?

Complexity:

- ✚ Did the entry successfully address highly complex criteria or unique problems?
- ✚ Were extraordinary problems of site, location, hazardous conditions, project requirements or similar elements present?
- ✚ Did the entry require the use of out-of-the-ordinary technology or ingenuity for achievement of the project's goals?

Successful Fulfillment of Client/Owner Needs:

- ✚ Did the engineer or entrant successfully engage the client/owner in the overall project development process?
- ✚ Was it an economical and cost-effective solution?
- ✚ How did the final cost relate to the original budget estimate?
- ✚ How closely does the entrant's solution meet the total goals of the client/owner?
- ✚ Did the entrant meet the client's time schedule?

ELIGIBLE PROJECTS INCLUDE:

Studies, Research, and Consulting Engineering Services ... Non-design services, projects not involving the preparation of construction documents consisting of, but not limited to, the following types of projects: ✚ New products, materials, and technologies ✚ Expert testimony ✚ Basic research and studies ✚ Computer/software technology ✚ Technical papers ✚ Public outreach/involvement ✚ Water conservation ✚ Security plans ✚ Project feasibility studies/economic/risk ✚ Value engineering

Building/Technology Systems ... Mechanical/electrical/plumbing ✚ Computer/technology ✚ Communications ✚ Acoustics ✚ Software Systems ✚ Sustainability or carbon neutrality ✚ Efficiency certification standards, e.g. LEED® ✚ Energy efficiency – new and retrofit ✚ Secure facilities (military/research/correctional)

Structural Systems ... Foundations * Tunnels * Buildings * Seismic design * Towers * Bridges
* Stadiums

Surveying and Mapping Technology ... Geometrics, ALTA, land title and rights surveys * Control, GPS,
monitoring or construction surveying * Survey mapping, GIS/LIS, photogrammetry

Environmental ... Hazardous waste * Solid waste * Restoration/reclamation/remediation * Air quality
* Noise * Recycling * Waste pond management * Carbon sequestration and trading * Migration

Waste and Storm Water ... Wastewater collection/treatment and disposal * Residuals management and reuse
* Graywater systems * CSOs * Mine tailings * Agricultural * Storm water management * Erosion control

Water Resources ... Hydraulics, hydrology * Surface and groundwater supply development * Treatment
* Transmission, distribution and storage * Watershed management * Water use reduction * Flood risk
management * Climate adaptation * Coastal and eco-system restoration * Locks/dams/water control structures
* Irrigation

Transportation ... Highways * Rail * Airports * Marine/ports * Public transit * Intermodal facilities

Special Projects ... Safety and security * Corrosion protection/cathodic protection * Program and construction
management * Land development * Trenchless technologies/directional boring * Recreational facilities
* Subsurface engineering

Energy ... Transmission and distribution * Power generation * Renewable energy * Cogeneration
* Energy storage technologies * Energy usage reduction programs * Demand side management

Industrial and Manufacturing Processes and Facilities ... Petrochemical * Biotech * Manufacturing
* Heavy industry * Industrial waste * Materials handling * Mining, metallurgy, mineralogy

HOW TO SUBMIT AN ENTRY

The following section is divided into notebook and panel requirements that are mandatory in order to enter the ACEC of Arizona competition. If the submission does not meet the requirements, it will not be judged. Also listed are suggestions for notebooks and panels. These are guidelines only for preparing your materials and display.

NOTEBOOKS AND PANELS ARE TO BE SENT TO:

ACEC of Arizona Engineering Excellence Committee
1309 East Echo Lane, Phoenix, AZ 85020

Deadline 5 p.m., Friday, August 18th

NOTEBOOK REQUIREMENTS

1. **Entry Form:** An original or duplicate completed Official Entry Form (*see form included*). The engineer or surveyor and client/owner must sign the Official Entry Form stating that the submitted project was substantially completed and ready for use between November 1, 2015 and August 18, 2017.
2. **One-page Client/Owner Letter:** Addressed to ACEC of Arizona, describing the relationship the client/owner had with the entrant in the development of the project and how it exceeded the client/owner needs.

3. **Executive Summary:** One-page overview with project title at the top of the page. Describe the problem and solution. Specifications: 8.5” x 11”, 1” side margins; double-spaced text, 12 pt. minimum size font.
4. **Project Description:** Five-page maximum. Tell the story of the project. Address items a, b, c, and d as listed below; project title and page number must appear at the top of each page. Entrants may use text, photos, graphics, or charts as needed. Specifications: 8.5” x 11”, 1” side margins; single-spaced text; 12 pt. minimum size font. Text must include the following:
 - a) **Role of the entrant’s firm** in the project.
 - b) **Role of other consultants** participating in the project.
 - c) **Entrant’s contribution to the project:** A brief description of the entrant’s contribution addressing each of the following:
 - a. Uniqueness and/or innovative application of new or existing techniques.
 - b. Future value to the engineering profession and perception by the public.
 - c. Social, economic, and sustainable development considerations.
 - d. Complexity
 - e. Successful fulfillment of client/owner needs.
 - f. Include total project budgeted cost, total project actual cost, entrant’s portion of the budgeted cost, entrant’s portion of the actual cost, scheduled and actual date of completion (*as indicated on the Official Entry Form*).
 - d) **Summary:** Describe in layman’s terms why this project is worthy of special recognition (*word count between 100-500 words*). Explain all factors that comprise the project’s uniqueness and complexity, such as innovative engineering, challenges faced and overall social impact. **NOTE:** This summary will provide the basis for all ACEC/AZ publicity on the project.
5. **Key Participants:** List the key participants on the project including firm name, address, phone number, website and email address of each participant. Include contractors, subcontractors, other engineers, architects and designers involved in the project.
6. **Photos or Graphics:** At least ten different, high-quality 8x10 photos showing key aspects of, or related to, the project. The photos should be created and selected to illustrate key features mentioned in the narrative. Include before and after shots of the project. Identify each photo with narrative. These are very helpful to the judges and are completely separate from the requirements listed below for the Awards Video.
7. **For “Studies, Research, and Consulting Engineering Services”** submit one copy of a supplementary report containing the findings portrayed with text, graphs, or photos as needed
8. **An entry fee** of \$300 for ACEC of Arizona members and \$1,600 for non-ACEC of Arizona members must accompany each notebook submitted in the competition.

AWARDS VIDEO REQUIREMENTS

The awards video requirements are completely separate from the panel and notebook submissions. In order to create a video for your award, we need:

- 1) a minimum of twenty-five (*more is better*) high-resolution digital photos showing key aspects of... or related to the project. These photos are completely separate from the photos required for the notebook.
- 2) Include a document containing a short description of each photo.
- 3) The photos should be created and selected to illustrate key features in the project narrative, and should be different... i.e. not essentially variations of the same shot. Include before and after shots of the project.
- 4) Also include all photos shown on your “Photographic Display Panel.”, as well as a digital file of your display panel.
- 5) Include your company logo in either Illustrator (.ai) or an extremely hi-res Photoshop (.psd) file.

All photos must be high resolution digital files. The awards video will be in HD, so eight mega-pixel photos or better are best. These can be in BMP, JPEG, TIFF or PSD formatting.

Put the digital files on a thumb drive with your company name or logo.

Professionally shot video is welcome, but is not required. Smaller (less than full-screen) web videos or heavily compressed videos are usually not usable. Contact Mitch Ives at mitchives@me.com or 480/860-8229 to answer questions or for more details on the awards video submissions. Any questions on the Notebook, Panel, or any other submission questions should be directed to ACEC at 602/995-2187 or execdirector@acecaz.org

PHOTOGRAPHIC DISPLAY PANEL

Panel text and photos should demonstrate the challenges, solutions, and innovative uniqueness of the key project elements. The panel must be prepared with high-quality photos and graphics, with minimal text (*250 words maximum*). The panel should include:

1. One photographic panel, **must be a 30" x 30" square** mounted on foamcore.
2. Maximum of six photos and/or graphics shall be used on the panel. Each image shall be a minimum of 7" x 5" or 35 sq. in. A background photo is not considered a photograph.
3. Minimum 32 pt. type for text or descriptions and minimum 28-pt. type for captions and graphics.
4. Title and location of the study or project, client/owner's name and location, and entering firm's name and location (minimum 32 pt. type) shall be indicated on the front of the panel.
5. The firm name and address, the project name, and the category shall be indicated on the back of the panel.

The ***Clifford C. Sawyer Achievement Award*** will be presented at the Awards Banquet on September 23rd to the firm that creates the best display panel. The objective of the award is to promote communication of engineering excellence by creating displays that are both visually exciting and stimulating to read, as well as promoting the achievements of the engineering profession.

In 1985, Clifford C. Sawyer, P.E., donated \$15,000 to ACEC/AZ to encourage outstanding technological achievement in the application of engineering principles. Mr. Sawyer was committed to showing the world the important contributions engineers make to our built environment.

A panel of communications experts will determine the winner of the award. All panels are eligible.

RETURN OF PANELS AND NOTEBOOKS

Notebooks, thumb drives, and panels become the property of ACEC of Arizona and may be used in ACEC of Arizona publications. Panels retained by ACEC of Arizona may be used for special displays and/or other promotional purposes.

PUBLICITY

The public relations and marketing value of participation in the ACEC of Arizona Engineering Excellence Awards program is considerable. The judgments made by a panel of experts regarding the engineering, economic, and social value of competing projects are a major element of the ACEC of Arizona public relations program and indirectly benefit all Arizona consulting engineering firms.

Winning projects will be featured on the ACEC of Arizona website and project photos will be on display at the University Club (*39 E. Monte Vista, Phoenix*) for the next year. Publicity activities underscore the direct business development benefits for local and national finalists – benefits that can be enhanced through feature stories in firm brochures and newsletters.



OFFICIAL 37th ANNUAL AWARDS ENTRY FORM

Complete both pages and submit with entry to ACEC of Arizona, 1309 E. Echo Lane, Phoenix, AZ 85020
Deadline: 5 p.m., Friday, August 18, 2017. Questions? Please call 602/995-2187
Email execdirector@acecaz.org – Website www.acecaz.org

A fee of \$300 per entry for ACEC of Arizona members (\$1,600 for non-ACEC of Arizona members) must accompany this submittal. Make check payable to: ACEC of Arizona

Furnish all information requested below for each entry (both signatures are required). Firm, project, and client/owner’s name should be typed or printed as they are to appear on the award. Limit project name to 45 characters.

*Make Rating Entries Easy for the Judges
Carefully Complete Each Section
Follow Notebook and Panel Requirements*

ABOUT THE PROJECT

Project Name _____

Project Location/Address: _____

City _____ State _____ Zip _____

Type of Project (check one box ... awards are not given based on one per “Type of Project”):

- | | | |
|--|--|---|
| <input type="checkbox"/> <i>Studies, Research, and Consulting Engr. Services</i> | <input type="checkbox"/> <i>Surveying and Mapping Technology</i> | <input type="checkbox"/> <i>Transportation</i> |
| <input type="checkbox"/> <i>Building/Technology Systems</i> | <input type="checkbox"/> <i>Environmental</i> | <input type="checkbox"/> <i>Special Projects</i> |
| <input type="checkbox"/> <i>Structural Systems</i> | <input type="checkbox"/> <i>Water and Storm Water</i> | <input type="checkbox"/> <i>Energy</i> |
| | <input type="checkbox"/> <i>Water Resources</i> | <input type="checkbox"/> <i>Industrial & Manufacturing Processes & Facilities</i> |

Completion/Use Dates: Scheduled _____ Actual _____

Construction Costs:

Total Project Budget \$ _____ Total Project Actual \$ _____

Entrants portion of Budget \$ _____ Entrants portion of Actual \$ _____

For “Studies/Research/Consulting Services” only: Budget \$ _____ Actual \$ _____

ABOUT THE FIRM(S) SUBMITTING THE PROJECT

Entering Firm(s) _____

Firm CEO _____

Firm Representative _____

Address _____

City: _____ **State:** _____ **Zip:** _____

Phone: (_____) _____ **Cell:** (_____) _____

E-Mail Address: _____

"I hereby authorize submission of this project into the American Council of Engineering Companies of Arizona's 37th Annual Engineering Excellence Awards competition."

Senior Executive/Principal _____

Title _____ **Date** _____

Signature _____ **Email** _____

ABOUT THE CLIENT/OWNER(S) OF THE PROJECT

Client/Owner(s) _____

"I believe the work of the engineer meets the intended uses and expectations for the project and hereby grant permission to enter this project in the American Council of Engineering Companies of Arizona's 37th Annual Engineering Excellence Awards competition, and authorize publication of its outstanding features, unique aspects, or innovations. I confirm the project was substantially completed and ready for use between November 1, 2015, and August 18, 2017."

Client/Owner Representative _____

Title _____ **Signature** _____

Date _____ **Email** _____

Address _____

City: _____ **State:** _____ **Zip:** _____

Phone: (_____) _____ **Cell:** (_____) _____

Deadline: August 18, 2017
Return to: ACEC of Arizona, 1309 E. Echo Lane, Phoenix, AZ 85020

37th Annual Engineering Excellence Awards



Saturday, September 23rd
Phoenix Art Museum
1625 North Central Avenue
Phoenix, AZ 85004

*“Spacial Study” by Philip C. Curtis – 1944
Phoenix Art Museum*

Reception starting at 5:30 p.m.

Welcome by ACEC of Arizona

Awards Presentation 6:30 p.m.

Special Guest Emcee

7:00 p.m. Dinner

No Host Bar / Semi Formal Dress

Sponsor the Engineering Excellence Awards

Excellence Sponsor ...Investment \$3,000

Firm Name in All Promotional Material ... Recognition During Awards Presentation
Newsletter Recognition ... Firm Sign on Table ... Special Seating at Dinner ... Table of Eight for Dinner

Honor Sponsor ...Investment \$2,000

Special Seating at Dinner ... Firm Sign on Table ... Newsletter Recognition ... Table of Eight for Dinner

Friends Celebrating Engineering Excellence

Newsletter Recognition ... Two Dinner Seats ... Investment \$750

Individual Seating ... \$150 Per Person



37th Annual Engineering Excellence Awards Reservation Form

Saturday, September 23rd
Phoenix Art Museum
1625 North Central Avenue
Phoenix, AZ 85004

“The Sun Vow” by Hermon Atkins MacNeil – 1899 ... Phoenix Art Museum

Firm Name _____

Address _____

City _____ State _____ Zip _____

Contact Person _____

E-Mail _____ Business Phone (_____) _____

Please reserve the following:

___ **Excellence Sponsor / \$3,000**

___ **Honor Sponsor / \$2,000**

___ **Friends Celebrating Engineering Excellence / \$750**

___ **Number of Individual Seats / \$150 Per Person**

Please make check payable to “ACEC of Arizona” or

To pay on-line by credit card, ACEC of Arizona will email invoice with on-line payment options.

Name of Person to receive email invoice: _____

And, their email address: _____

Return this form by September 5th to ensure priority seating at the event:

ACEC of Arizona, 1309 East Echo Lane, Phoenix, AZ 85020

Or Fax to 602/995-2218 or Email engineers@acecaz.org

Questions? Call 602/995-2187

Please save a copy of this form as your receipt.