

American Council of Engineering Companies/Maryland

ENGINEERING EXCELLENCE AWARDS COMPETITION

2017

Preliminary Phase

DEADLINE: SEPTEMBER 9, 2016

Submit electronically to acecmd@acecmd.org
(Limit - three entries per firm)



“To recognize those engineering achievements demonstrating the highest degree of merit and ingenuity, and providing a major contribution to technical, economic and social advancement.”

2016 Grand Award Winner

William Preston Lane Jr.
Memorial Bridge Cable
Dehumidification Project

Submitted by AECOM



The American Council of Engineering Companies/Maryland's (ACEC/MD) annual Engineering Excellence Awards (EEA) competition recognizes engineering firms for projects that demonstrate a high degree of innovation, achievement, and value. In a two-step process, firms can submit their outstanding projects for consideration, culminating in our Annual Awards Banquet, held each February in conjunction with Engineers Week.

Eligibility:

Any firm engaged in the private practice of consulting engineering or land surveying is eligible to enter the awards program whether or not the firm is an ACEC member. Engineering or surveying achievements that have won awards in other state or national organizations' design awards programs may be entered. Projects entered in the competition may have been executed anywhere in the world. Research and Studies (Category A) or Surveying and Mapping projects (Category D) must have been publicly disclosed by the client between November 1, 2014 and October 31, 2016. Construction of projects (Categories B through L - with the exception of D) must have been substantially completed and ready for use between November 1, 2014 and October 31, 2016.

General Criteria:

Both member and nonmember consultant firms may submit up to three (3) entries for consideration in the "preliminary" phase of the ACEC/MD Engineering Excellence Awards competition. Only those entries shortlisted in the preliminary phase will be eligible for submission in the ACEC/MD final awards program and the ACEC national competition. Entries must relate to any one of 12 categories in this brochure, which are also presented in the national awards brochure (www.acec.org).

Judging:

Entries will be judged in the preliminary phase of the awards program, on the written description of the project as outlined in this brochure. The entries will be judged on the basis of the work performed by the entering firm only and according to the rating guidelines listed below.

Rating Guidelines for Judging:

- 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 design considerations 20%
- Complexity 20%
- Successful fulfillment of client/owner needs 20%

2015 Grand Award Winner

Intercounty Connector General Engineering Consultant

*Submitted by ICC Corridor Partners -
a JV of RK&K, PB & URS*



HOW TO SUBMIT AN ENTRY

Entries are limited to three per firm. They must be submitted electronically to the ACEC/MD office at acecmd@acecmd.org no later than **September 9, 2016**, and shall include:

1. The ACEC/MD Preliminary Phase entry form.
2. One copy of an Executive Summary, not to exceed one page - 8.5" x 11" with 1" side margins; minimum 12pt. type, double spaced, describing the problem and the solution.
3. One copy of a Press Release (up to two pages, double spaced) clearly and concisely describing the project and the entrant's participation in the project, reflecting on factors listed below. In addition, indicate the value of the project to the community, identify the number of people served, cost savings, etc. Do not reference other awards in the submitted materials.

SUBMITTED PROJECTS WILL BE EVALUATED BASED ON THE FOLLOWING FEATURES:

- 1. 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?
- 2. Future Value to the Engineering Profession and Perception by the Public:**
 - Will the entry redefine current engineering thinking?
 - Does the entry advance a positive public image of engineering excellence?
- 3. 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?
- 4. 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?
- 5. 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?

Preliminary entries selected by the judges for submission in the final awards program must follow the additional guidelines as specified in the ACEC Engineering Excellence brochure. Submitting a graphic panel with the final submission is encouraged, although not required. ACEC/MD showcases these panels at events throughout the year, as additional publicity for our members' achievements. Also, the ACEC/MD program will not require the "official notebook". Firms may organize their entry for the ACEC/MD awards program, when advised, in any format they choose.

CATEGORIES

CATEGORY A: *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

CATEGORY B: *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)

CATEGORY C: *Structural Systems*

- Foundations
- Tunnels
- Buildings
- Seismic design
- Towers
- Bridges
- Stadiums

CATEGORY D: *Surveying and Mapping Technology*

- Geometrics, ALTA, land title and rights surveys
- Control, GPS, monitoring or construction surveying
- Survey mapping, GIS/ LIS, photogrammetry

CATEGORY E: *Environmental*

- Hazardous waste
- Solid waste
- Restoration/reclamation/remediation
- Air quality
- Noise
- Recycling
- Waste pond management
- Carbon sequestration and trading
- Mitigation

CATEGORY F: *Waste and Storm Water*

- Wastewater collection/ treatment and disposal
- Residuals management and reuse
- Graywater systems
- CSO's
- Mine tailings
- Agricultural
- Storm water management
- Erosion control

CATEGORY G: *Water Resources*

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

CATEGORY H: *Transportation*

- Highways
- Rail
- Airports
- Marine/ports
- Public transit
- Intermodal facilities

CATEGORY I: *Special Projects*

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

CATEGORY J: *Small Projects*

- Total project construction budget can not exceed \$2.5 million. At the entrant's discretion, except for entries in Category A, projects under \$2.5 million are not limited to this category.

CATEGORY K: *Energy*

- Transmission and distribution
- Power generation
- Renewable energy
- Co-generation
- Energy storage technologies
- Energy usage reduction programs
- Demand side management

CATEGORY L: *Industrial and Manufacturing Processes and Facilities*

- Petrochemical
- Biotech
- Manufacturing
- Heavy industry
- Industrial waste
- Materials handling
- Mining, metallurgy, mineralogy

The entering firm must select one category, which is most appropriate, in which it wishes to compete. A project may be entered only once in a particular category. However, after a project entered in Category A has been constructed, it may be entered in another year in B, C, D, E, F, G, H, I, J, K or L in the year when eligible.

American Council Of Engineering Companies/Maryland 2017 Engineering Excellence Awards (EEA) Program Preliminary Phase Entry Form

Please furnish all information requested below for each entry. Firm, project, and client/owner's name should be typed or printed as they are to appear on the award. Photocopying permitted.

Name of Project _____

Project Location (City & State) _____

Entering Firm _____

Principal Name: _____ Title _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

I hereby authorize submission of this project into the ACEC/MD 2017 EEA competition.

Signature of Principal: _____

Contact within firm if different from principal:

Name _____ Email _____

This project is to be judged among one of the 12 categories*. Check one:

- | | |
|--|--|
| A. Studies, Research & Consulting Engineering Services | G. Water Resources |
| B. Building/Technology Systems | H. Transportation |
| C. Structural Systems | I. Special Projects |
| D. Surveying & Mapping Technology | J. Small Projects |
| E. Environmental | K. Energy |
| F. Waste and Storm Water | L. Industrial & Manufacturing Processes & Facilities |

**Refer to the ACEC entry form, available at www.acec.org for a description of projects to be included in each category.*

Owner's Name _____

Address _____

Client's Name (if different from owner) _____

Address _____

Please complete the following for all categories relative to that portion of the project designed by entrant. (Note: budgeted and actual costs may not apply to some Studies in Category A):

Scheduled Date of Completion _____ Actual Date of Completion _____

Category A Costs: Budget Cost \$ _____ Actual Cost \$ _____

Construction Costs: Total Budget \$ _____ Total Actual \$ _____

Entrants Portion of Total Budget \$ _____ Entrant's Portion of Total Actual \$ _____

Check box if project was awarded through Quality-based Selection (QBS) process.

Submit entries electronically by September 9, 2016 to: acecmd@acecmd.org.