ENTRY FORM

DVASE
2020 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

Buildings under $5M		Buildings Over $100M	
Buildings $5M - $15M		Other Structures Under $1M	x
Buildings $15M - $40M		Other Structures Over $1M	
Buildings $40M - $100M		Single Family Home	

Approximate construction cost of facility submitted:	$55K
Name of Project:	White Water Sculpture Relocation
Location of Project:	Philadelphia, PA
Date construction was completed (M/Y):	March 2019
Structural Design Firm:	Keast & Hood
Affiliation:	**All entries must be submitted by DVASE member firms or members.**
Architect:	Jacobs Wyper Architects | Project Owner: Woodmere Art Museum, William R. Valerio, PhD, The Patricia Van Burgh Allison Director and CEO
General Contractor:	Foundation Contractor: B. Pietrini & Sons | Rigging Contractor: George Young / Mammoet

Company Logo (insert .jpg in box below)

KEAST & HOOD
STRUCTURAL ENGINEERS

Important Notes:

- Please .pdf your completed entry form and email to bsagusti@barrhorstman.com.
- Please also email separately 2-3 of the best .jpg images of your project, for the slide presentation at the May dinner and for the DVASE website. Include a brief (approx. 4 sentences) summary of the project for the DVASE Awards Presentation with this separate email.

- Provide a concise project description in the following box (one page maximum). Include the significant aspects of the project and their relationship to the judging criteria.

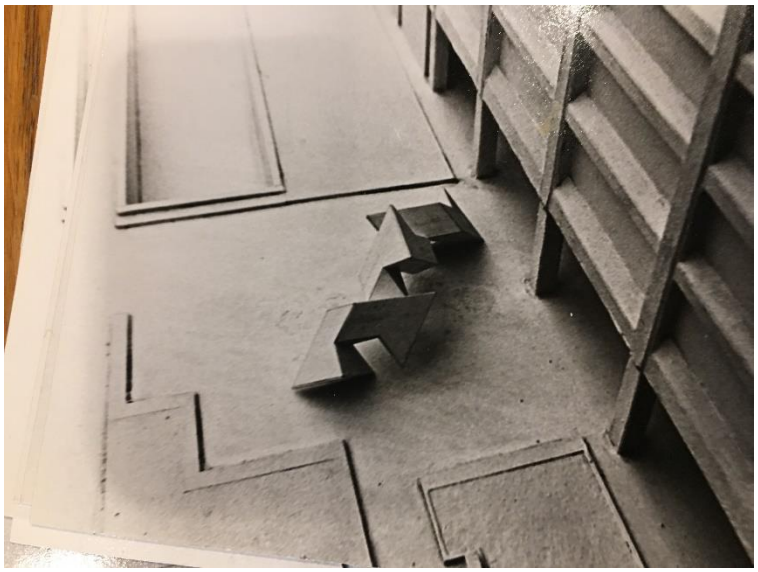
Keast & Hood is the Structural Engineer of Record for the American Bible Society's Faith & Liberty Discovery Center (FLDC), a new 40,000-square-foot attraction in the Wells Fargo Building at 5th and Market Streets. To accommodate the new center's design, the existing Robinson Fredenthal public art sculpture, White Water needed to move from its original location since 1978 to the Woodmere Art Museum in Chestnut Hill, Philadelphia, PA.

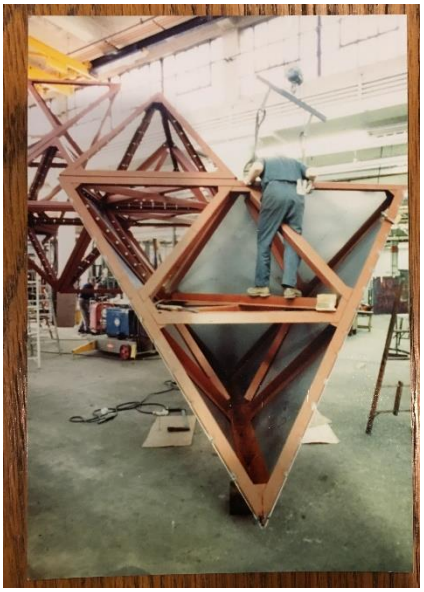
Occupying the footprint of the new addition of the FLDC required moving the 15-ton stainless steel sculpture that had no existing documentation except photographs, due to its sculptural nature. In order to move the sculpture, engineers had to determine the weight of the object to design the concrete footings for its new permanent location.

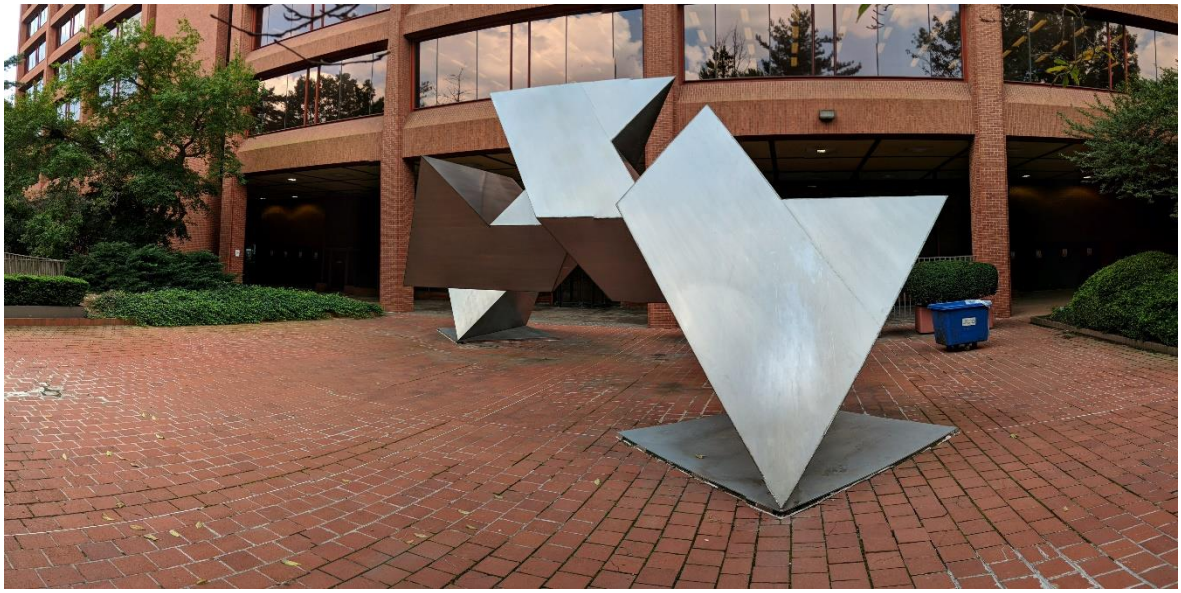
Engineers took overall measurements of the sculpture, realizing the rhythm that the artist used to create the sculpture by comparing original photos and examining the physical sculpture, they were then able to model the sculpture accurately in SketchUp. Knowing the sculpture was constructed of stainless steel, the material and weight were applied to the model and the weight was able to be estimated. The simple job of designing the sculpture's new concrete foundations as well as replicating the original anchorage was then completed.

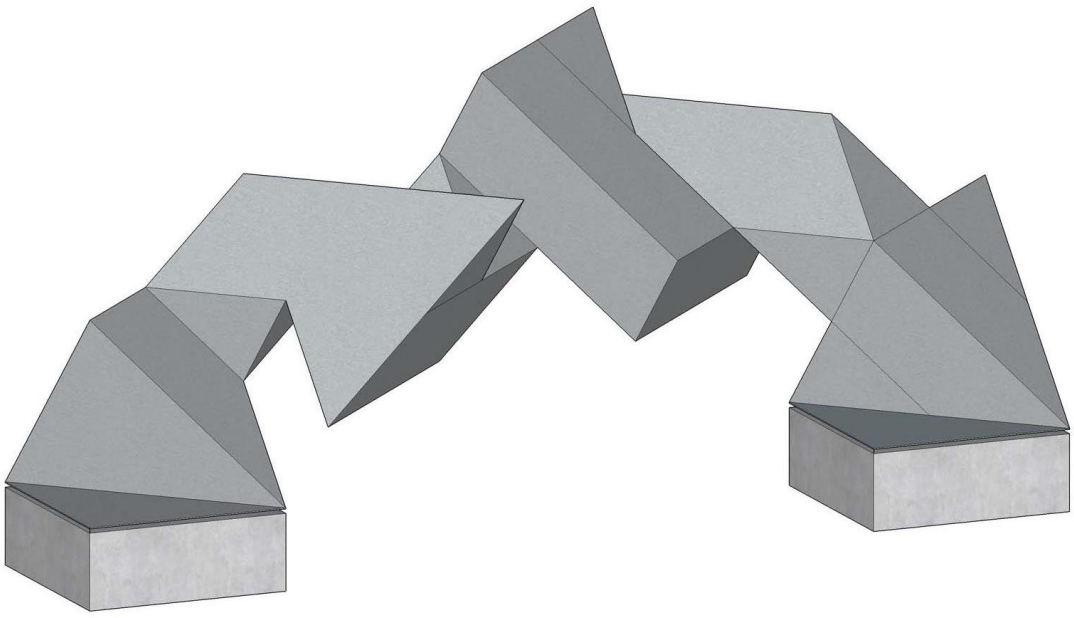
Not an overly complicated project by any means but an interesting engineering challenge that required some artistic interpretation, visual skills, and testing of theories allowed engineers to answer a lot of unknowns and provide a seamless relocation for a sculpture that now rests in a much more visible location while allowing for the realization of another architectural design in its place.

- The following 5 pages (maximum) can be used to portray your project to the awards committee through photos, renderings, sketches, plans, etc...









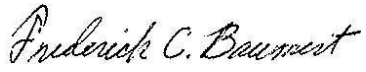

GEORGE YOUNG

By signing, signatory agrees to the following and represents that he or she is authorized to sign for the structural design firm of record.

All entries become the property of DVASE and will not be returned. By entering, the entrant grants a royalty-free license to DVASE to use any copyrighted material submitted.

If selected as an award winner, you may be offered the opportunity to present your project at a DVASE breakfast seminar. Would you be willing to present to your colleagues? ☒ ***YES*** ☐ ***NO***

Submitted by:

Print name: Frederick C. Baumert, PE	**Signature:** 	**Date:** 5/22/2020
Submitting Firm:	Keast & Hood	
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Telephone: 215-625-0099	**Fax:** 215-625-9408	**Email:** fbaumert@keasthood.com