

## *asbe Foundation*

# 62nd Annual High School Design Challenge

Participation in the Design Challenge keeps curriculum current, challenges student creativity, provides an industry based activity, and reinforces your Drafting and Art programs. The educational benefit of the Competition is to give the students a problem that requires the practical application of the Design Process. The Design Process starts with a concept sketch or idea, is then refined, and finally developed into a functional part. Students are given an industry based problem and are challenged with finding a design solution. Design Concept and Engineering Design are the two categories of the Design Challenge Competition. Together, they cover both components of the Design Process. Skills that students have gained in their classes can be directly applied to a real-life design problem with the Design Challenge.

### ***Two Categories to Engage Both Drafting and Art Students***

The Design Concept Category will ask the student to propose a creatively aesthetic design to a given automotive application. The problem for Drafting and Art students is to design a fender appliqué for a pickup truck and submit a rendering of the design.

The Engineering Design Category asks the Drafting student to create a practical design of a fender appliqué for a pickup truck and to present the design in the form of a proper orthographic drawing.

### ***Teacher Workshops***

Workshops are offered to supplement the Design Challenge instructions and to provide support in the design process. A workshop for Metro Detroit Area Drafting and Art teachers is scheduled for November 19, 2015 at the Macomb Intermediate School District. Other workshops can be provided upon request.

### ***Obtaining the Design Challenge Problems and Instructions***

A full description of the Challenge problems and a CAD file of the truck body in various formats are furnished to work from. A .pdf file is also available for those students who don't have access to a CAD system or who choose to submit a hand drawn entry. Download the documents and files from: [www.asbeFound.org/events](http://www.asbeFound.org/events)

### ***Cash Prizes***

Cash prizes are awarded to the top eight winners in each Category, both Engineering and Design, plus Best of School awards to those entered but not placing.

### ***Awards Dinner***

Winning students and their teachers are invited as our guests to our Annual Awards Dinner in March where prizes and certificates are awarded.

### ***Important Dates***

November 5, 2015: Registration and contest materials available at our website: [www.asbeFound.org/events](http://www.asbeFound.org/events)

November 19, 2015: Teacher workshop at Macomb Intermediate School District (Rescheduled)

December 7 thru

January 8, 2016: Individual Students must register their intention to participate.

**February 19, 2016**

**3 p.m.:** **Student entries due at the Macomb Intermediate School District**

March 4, 2016: Judging of the student entries

March 22, 2016: Annual Awards Dinner

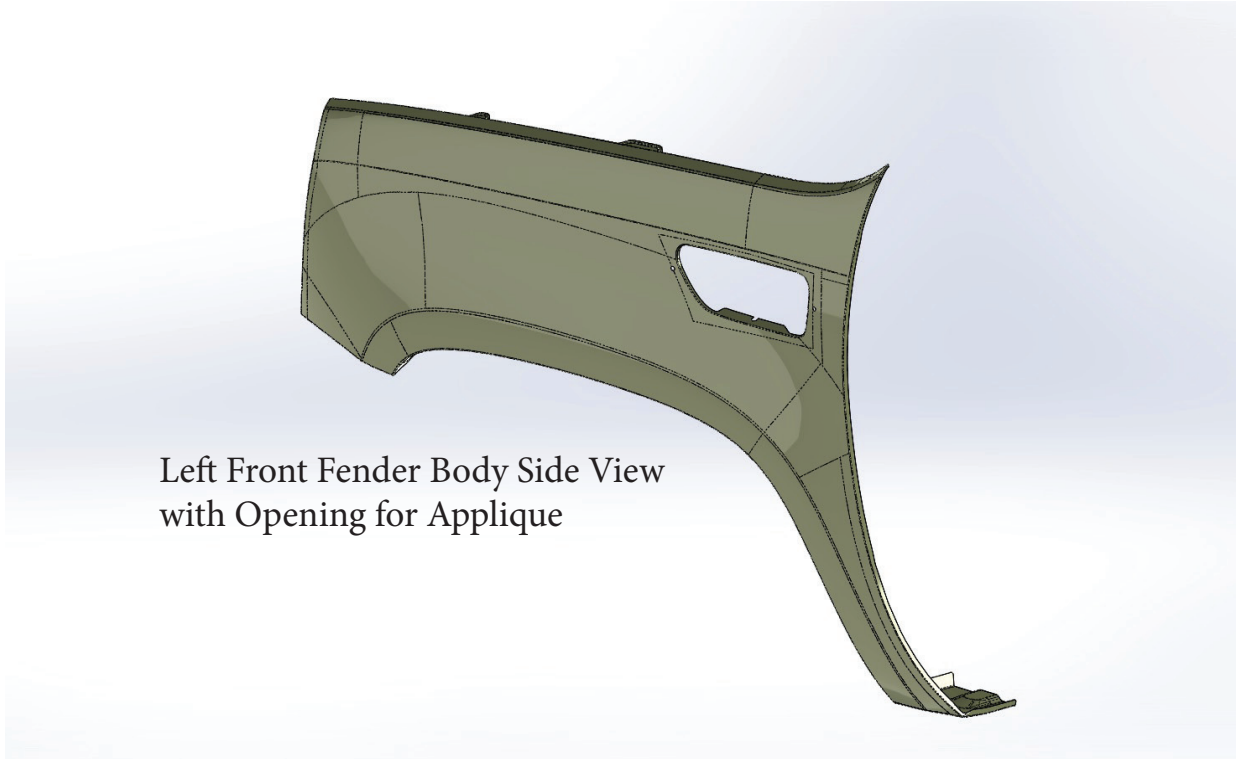
*For further information about the Challenge or Teacher Workshops  
contact*

*Don Shook at: [dshook@asbeFound.org](mailto:dshook@asbeFound.org)*

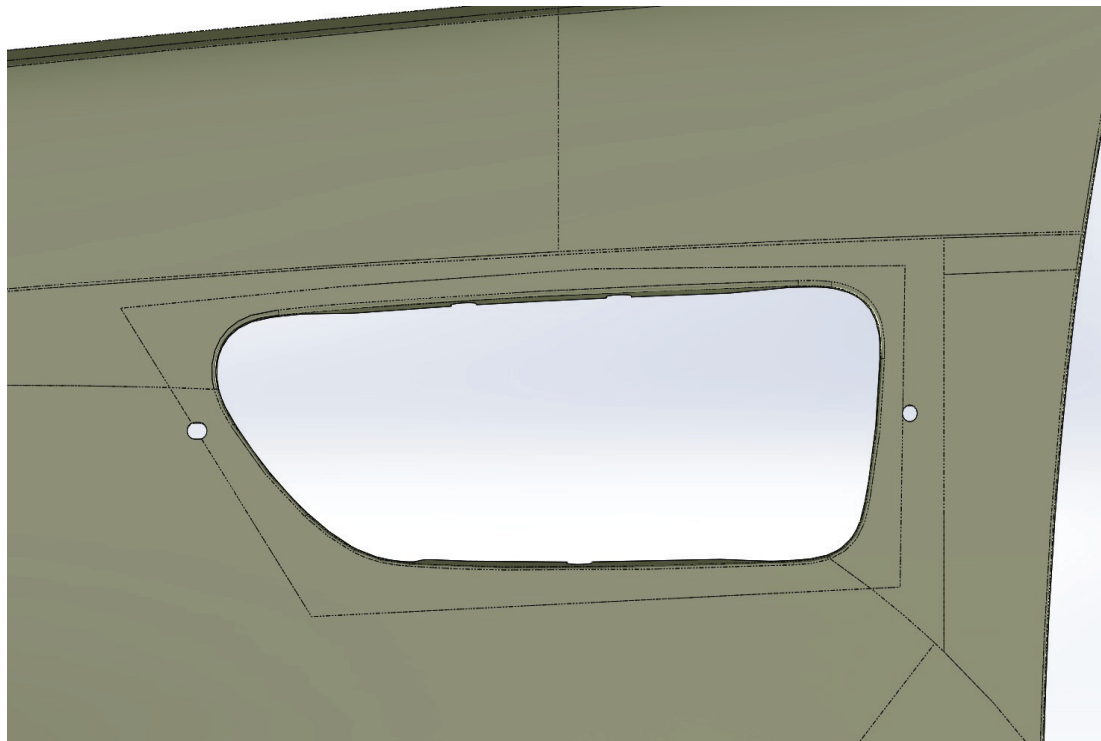
*Jerry Lovett at [jlovett@asbefound.org](mailto:jlovett@asbefound.org)*



*asbe Foundation* High School Design Challenge 2016  
The Design of an Applique for the  
Front Fender of a Pickup Truck



Left Front Fender Body Side View  
with Opening for Applique



Left Front Fender Detail.  
Opening for Applique