

Technology Student Competition Handbook

PROGRAM CALENDAR

Online or Paper Entry Form deadline	Friday, January 5, 2018
Deliver items to the Florida Center — located at the Florida State Fair. (see page 5)	Thursday, January 25, 2018 10:30 a.m. – 6:00 p.m.
Shipping Information – (see page 5)	Friday, January 26, 2018 10:30 a.m. – 6:00 p.m.
	Saturday, January 27, 2018 10:30 a.m. – 3:00 p.m.
	February 8 - 19, 2018
Items exhibited	
Entry pickup	Wednesday, February 21, 2018 11:00 a.m. – 6:00 p.m.
	Thursday, February 22, 2018 11:00 a.m. – 6:00 p.m.

For more information, contact
Competitive Exhibit Coordinator

Brenda Gregory

Phone: 813-734-2810

Email: brenda.gregory@floridastatefair.com



Why Compete?

The Florida State Fair Technology Student Competition, sponsored by the Florida Technology Student Association, is a state level student activity which promotes the understanding of technology and development of technology skills among secondary students in Florida. The Technology Student Competition offers possibilities of awards (ribbons and cash) for excellence demonstrated by technology projects that have been submitted during the Florida State Fair in Tampa, Florida.

Competition Overview

Entry Fee: All Youth Division \$1 per entry

Entry Fees are non-refundable

All information regarding **Family Living Competitive Exhibits** can be found at www.floridastatefair.com.

How to enter online – page 6

Paper entry form is available on the last page.

General Rules – page 7

All online & paper entries must be completed on or before January 5, 2018.

Exhibitors are encouraged to read this handbook in its entirety.

Eligibility

- **Open to all Middle/Junior High and High School Florida students.**
- **The Technology Student Divisions** are open to Florida residents in grades 6 – 12, as of September 1, 2017.
- Membership in TSA is not necessary to enter a project. Any technology student may enter.

The Technology Student Exhibition will be held in the Florida Center during the Florida State Fair. The exhibit will be open for your viewing pleasure.

Entry Rules

Please read the Entry Rules carefully as they have changed this year.

1. Exhibitors may enter as many classes as they like, but no more than one (1) entry per class per individual.
2. Teachers: If submitting student's work, do not bring in any more than three (3) similar "look-alike" entries from a class project.
3. Teachers or advisors who are responsible for pickup and delivery of projects to the State Fairgrounds. It is your responsibility to coordinate with the competitive exhibition coordinator, well in advance for delivery of your projects.
4. Entries previously exhibited in the Florida State Fair may not be submitted for competition.
5. **Technology Competition Entry forms** may be duplicated as needed. Each Student must have a separate form with multiple entries on the form.
6. **Projects made from commercial kits are not eligible.** Component parts should be made by the students wherever reasonably possible, and judges will rate accordingly.
7. Any entry made in school, under the supervision of a technology education teacher, and which qualifies according to the rules and regulations may be entered.

Project Eligibility

All Entries are limited to a maximum size of 36 inches in any direction. Please contact the Competitive Exhibit Coordinator

Some classes have additional size requirements as stated in the rules.

8. **The State Fair will not accept any projects containing combustibles or explosives.** (Example: live bullets, rocket fuel, gunpowder, etc.) Projects which may be constructed as weapons, which could be picked up and used on site, may be disqualified by the consensus of the judges. Examples; knives, fishing spears, nightsticks, blowguns, crossbows, etc.

Age Division

Each student will be placed into one of two age (2) divisions:

- **Middle/Junior High School** Grades 6, 7, 8, and 9.
- **Senior High School** Grades 9, 10, 11, and 12.

NOTE:

If student in grade 9 is located at a Middle/Junior High School, student will compete in Middle/Junior High School Age Division

If student in grade 9 is located at a Senior High School, student will compete in Senior High School Age Division

If student is at a school that has 6, 7, 8, 9, 10, 11, 12 then 6, 7, 8, will compete in age division Middle/Junior High School and 9, 10, 11, 12 will compete in age division Senior High School.

Judging & Awards

The Fair ensures that the judges we employ are knowledgeable in the division in which they are judging and will be impartial. Judging will be done using a scorecard to assist in keeping the decisions as objective as possible. Judges reserve the right to decide proper classification of entries. The decision of the judge(s) is final.

If, at the Judge's discretion, an entry does not merit a placing, the Judge shall give no award under any circumstance. This rule applies whether there is one or more exhibits in the Class.

Awards Information

First Place – State Fair Ribbon **\$15**

Second Place – State Fair Ribbon **\$10**

Third Place – State Fair Ribbon **\$5**

Best of Show – State Fair Ribbon **\$50**

Ribbons will be awarded for 1st, 2nd and 3rd in each classification. The pieces in each class are judged against each other not against a Rubric.

Best of Show Award will be chosen from all the first place winners in each Technology Student Division.

Honorable Mention Ribbons may be awarded, at the discretion of the judge(s).



Class Definitions and Descriptions



Changes to this competition

Woods – To compete with any entry that is made of wood, please see the Hobby Craft Handbook (Youth Division).

Graphic Arts – To compete with any entry in graphic arts, please see the Youth Arts Handbook.

Photography – To compete with any entry in photography, please see the Youth Arts Handbook.

All handbooks are available at:
<http://www.floridastatefair.com/p/about/404>



Architecture Design Challenges

These three design challenges (A-C) can be applied to any of these Architecture Classes listed below:

- Manual Architectural Drafting
- CAD Architectural Drafting
- Architectural Model

A. Design a residence for a family of four. The design should not exceed 2,400 square feet and must include a foyer, main living area, kitchen, dining area, two full bathrooms minimum, three bedrooms minimum, two-car garage minimum, laundry facilities and a porch or lanai.

B. Design a tiny house constructed from two 40' standard shipping containers (8' wide x 40' long x 8'-6" high). The design must include a main living area, kitchen facilities, laundry facilities, a half bathroom, a full bathroom, and two bedrooms. The height of the containers may be altered along with bump-ups and bump-outs. The design may also include an appropriate-sized deck\porch to serve as a main entry or entertainment area.

C. Design a restaurant with a 100-guest capacity. The restaurant may be based on any concept (i.e. full-service, buffet, etc.) and cuisine. The design must include a dining area, waiting area, manager's office, kitchen and food storage area that meets health and safety codes.

NOTE: A major component for all design is to apply and meet modern LEED design and building standards.

Architecture

All drawings should be mounted on an 18" x 24" mat board (digitally scanned copies allowed). In addition provide a project description and attach to the back of the mat board.

Manual Architectural Drafting – Project submission will consist of one, hand drawn presentation drawing showing the floor plan and either the front elevation or perspective drawing mounted on an 18" x 24" mat board (digitally scanned copies allowed).

Select one of the design challenges.

CAD Architectural Drafting – Project submission will consist of one, computer-generated presentation drawing showing the floor plan and either the front elevation or perspective drawing mounted on an 18" x 24" mat board (digitally scanned copies allowed).

Select one from the design challenges.

Architectural Model – Project submission will consist of a scaled model mounted on an 18" x 24" foam board or wood base.

Construct the model from one of the design challenges.

Architectural Rendering

All drawings should be mounted on an 18" x 24" mat board (digitally scanned copies allowed). In addition provide a project description and attach to the back of the mat board.

Manual Architectural Rendering – Project submission will consist of one, hand-drawn architectural rendering in either one-point, two-point or three-point perspective and mounted on an 18" x 24" mat board. Renderings may be either interior or exterior and of any type structure (i.e. residential, commercial, high-rise office space, etc.)

CAD Architectural Rendering – Project submission will consist of one, computer-generated architectural rendering in either one-point, two-point or three-point perspective and mounted on an 18" x 24" mat board. Renderings may be either interior or exterior and of any type structure (i.e. residential, commercial, high-rise office space, etc.)

Technology Student – Division & Classes

Engineering Drafting

All drawings should be mounted on an 18" x 24" mat board (digitally scanned copies allowed).

CAD 2D Engineering – Project will be a computer drawing of an engineering object using CAD software.

CAD 3D Engineering – Project will be a three dimensional computer drawing of an engineering object using 3D CAD software. The object (pump, gears, etc.) must be displayed with drawing.

Manufacturing

Electricity / Electronics – Project made from commercial assembly kits ARE NOT eligible. Projects must be completed and in operating condition to enable judges to test their operation. A schematic drawing and parts list must accompany entry along with a written description of application of the product. Project can be electro-mechanical providing the predominant control of the system is electrical.

CNC Mill/Lathe – Any object produced with a CNC Mill/Lathe may be entered. The object can be made of wood, metal, plastic or any combination thereof.

Metals Machined – Any product made with the use of mills, lathes, shapers or combinations thereof (CNC not used - which is class 14).

Plastic Carvings or Turnings – Any predominantly plastic project, which required the removal of material to give shape to the object by carving, turning or scraping.

Plastic Fabrication – Any project in which the forming and fabrication of plastic are the major operations required.

Welding Technology any welding project that uses techniques such as SMAW and TIG processes, MIG and Flux Core for use in pipe welding and manufacturing applications.

Dragster Design – The student is required to design, draw, and build a CO2 powered, one-piece, all-wood model dragster. Judging will be based on the design, craftsmanship, and overall appearance of the dragster.

Age Divisions

Middle/Junior High School Division 75.401
Senior High School Division 75.501

Class Description

Architecture

Manual Architectural Drafting

- 1A Design Challenge A
- 1B Design Challenge B
- 1C Design Challenge C

CAD Architectural Drafting

- 2A Design Challenge A
- 2B Design Challenge B
- 2C Design Challenge C

Architectural Model

- 3A Design Challenge A
- 3B Design Challenge B
- 3C Design Challenge C

Architectural Rendering

- 4 Manual Architectural Rendering
- 5 CAD Architectural Rendering

Engineering Drafting

- 6 CAD 2D Engineering
- 7 CAD 3D Engineering

Manufacturing

- 8 Electricity / Electronics
- 9 CNC Mill/Lathe
- 10 Metals Machined
- 11 Plastic Carvings or Turnings
- 12 Plastic Fabrication
- 13 Welding Technology
- 14 Dragster Design

A Special thanks to
**Florida Technology
Student Association**
for their endorsement
of this competition.



How to Enter Online

We encourage you to enter online, using ShoWorks. The Florida State Fair has implemented ShoWorks, an on-line entry program. ShoWorks is an industry standard used by over 50 fairs nationally. This user-friendly program can be trusted to accurately enter you into our competitions and allows for efficient communications via e-mail. We are excited to have ShoWorks to better facilitate entering Florida State Fair competitions.

- **Take a moment to look through this Competition Handbook to see which division and class your entry is eligible to compete in.** Then, follow the easy steps listed below to enter the competition you have chosen.
- **To Enter Online using ShoWorks.**
Go to www.floridastatefair.com and at the top of the home page select the **State Fair** TAB and you will see in the dropdown list a link for the **Family Living Competitive Exhibits**. Select the **Enter Online** button at the top of that page.
- **Everyone must register as a new exhibitor each year.**
- **Note that sessions expire after 20 minutes of inactivity, so “save the cart” if you plan on leaving the computer for more than 20 minutes.**
- When registering, please verify that all information that you entered into ShoWorks is correct. Please pay special attention and use proper spelling, capitalization, full names of cities/counties, no abbreviations and correct contact and mailing outlets.
- You can pay fees with a credit card or mail in a check.

Mailing Paper Entry Forms

- **Entry Forms must be postmarked by Friday, January 5th, 2018.**

Failure to complete any portion of entry form may result in disqualification.

Mail Entry Form to:

Family Living Competition – Technology Student
Florida State Fair
P.O. Box 11766
Tampa, FL 33680

Make checks payable to: Florida State Fair Authority

Delivery of Entries

- **All entries must be delivered to the Florida State Fair Authority on either:**
Thursday, January 25, 10:30 a.m. – 6:00 p.m.
Friday, January 26, 10:30 a.m. – 6:00 p.m.
Saturday, January 27, 10:30 a.m. – 3:00 p.m.

Deliver entries to:

Florida State Fair Authority
Florida Center Bldg.

Enter off of Orient Road thru the Service entrance on the west side of the fairgrounds.

Map with directions to the Florida Center available on the Competitive Exhibits webpage.

- Entries arriving at the Fairgrounds after Delivery and Shipping Deadlines may be disqualified.

Shipping Information

- Shipped entries must arrive no later than **Friday, January 19, 2018.**
- Include a **Shipping Form**, available at www.floridastatefair.com on the **Family Living Competitive Exhibits** Page. Shipments missing form will be returned COD after the Fair.
- **Shipped entries, with Shipping Form to:**
Florida State Fair Authority –
Technology Student Competition
4800 US Hwy 301 North
Tampa, FL 33610.
- Entries are shipped back to exhibitors after the Fair in the same container. Use reusable shipping containers.
- Return shipping costs are the responsibility of the entrant.
- Return shipping options: COD, Prepaid shipping label, UPS or FedEx account.

Retrieving Entries

- See the calendar for Pick Up dates, times and locations (page 1).
- Entries not picked up on designated dates can be arranged for special pick up appointment by emailing brenda.gregory@floridastatefair.com.
- All entries not claimed by April 1, 2018 will be recycled or donated through our program department.

General Rules

Disclaimer

Please be advised that competitive exhibits are entered at the exhibitor's risk. The Florida State Fair does not insure and is not responsible for any loss, damage, or theft of entries, even if the loss, damage, or theft occurs as the result of the handling of the exhibit by staff, volunteers, contractors and/or visitors. If the exhibitor desires insurance coverage, this coverage should be secured from a personal insurance agent prior to entry and the policy written to cover the period of exhibition and transportation. Reasonable care will be taken to prevent loss or damage to exhibits. Unauthorized persons are not permitted in the building after closing hours.

Division/Class Cancellation

The Florida State Fair management reserves the right to return entries and cancel any division or class in which, in its judgment, the entries are insufficient to secure adequate competition.

Entry Errors

Florida State Fair management is not responsible for finding errors in entries. Exhibitors are responsible for any and all errors which were submitted online or on entry and summary forms. No exhibitor shall be entitled to an award which has been disallowed as the result of his own error. The Florida State Fair management shall withhold the payment of awards for exhibits that are ineligible and may recover awards that have been paid for ineligible entries that are disclosed during post audits of Fair records. However, exhibitors with cause are entitled to question the validity of any disallowance. Such exhibitors should inform the Florida State Fair management immediately, in writing, giving their name, address, complete description of the entry and the reason for requesting reconsideration. Requests will not be considered later than ninety (90) days after receiving notice of disallowance.

Substitution

Substitutions may be made in still exhibits only in the same division of the original entry class of the original exhibitor, and may be made only if completed by the entry delivery date. Substitutions must be made at time of delivery check in. The Florida State Fair or the judge may disqualify or transfer to the correct class any entry which is not a true representative of the division or class in which it is entered.

Previously Entered Entry

Any entry that has been exhibited at a previous Florida State Fair is not eligible for entry in the 2018 Florida State Fair. This excludes Horticulture & Aquarium Beautiful entries.

Verification

Exhibitors wishing to verify that the Florida State Fair has received submitted entry forms and fees must include a self-addressed/stamped envelope when submitting entry forms. Online submissions will receive a confirmation code once entries are submitted.

Responsibility

The Florida State Fair shall not be responsible for exhibits remaining on the fairgrounds after designated release times. All still exhibits or display elements remaining on the Fairgrounds after the designated release time will be treated as abandoned property and will be disposed of on or before September 1st of the same year.

Removal of Entries

An exhibitor may not remove his or her entry from the Florida State Fair once it has been accepted. Entries must be on exhibit at the official opening of the Fair or at any other time specified in the Competition Handbook and shall not be removed from the Fairgrounds prior to the release date printed in the handbook, except (at the discretion of the Florida State Fair management) in cases of positive evidence of sickness, accident and/or death, or other circumstances that are in the best interests of the Fair.

Dishonored Checks

A penalty of \$25.00 per dishonored check must be paid if a check in payment of entry fees or other applicable fees is refused by the bank. Only cash, certified check or money orders are acceptable for penalty payment.

Design

The Florida State Fair assumes total design control over the presentation of the exhibits. Entries designed for hanging and not so equipped will be hung in a manner deemed appropriate by the Fair. No exhibit changes will be made once the entries have been displayed. Once an entry has been received by the Florida State Fair, no further handling of entry by exhibitor shall be permitted. Relocation and final placement shall be accomplished by Florida State Fair personnel. Entries requiring assembly/disassembly must include detailed instructions and sketches for assembly/disassembly. Instructions should indicate lifting points, unsecured parts and any other information required for such handling. Where necessary, bank pins will be utilized to attach exhibits for display.

