



The Lake Youth Foundation Presents:
**6th Annual
 Cardboard Boat Regatta**

**Saturday, July 24, 2010
 Sailboat Beach (to the left of Clubhouse Beach)**

Boat Drop off	11:30am – 12:00pm
Judging of boats	12:00pm
Pre-race Award Presentations	12:30 pm
Lunch available from	11:30am – 1:00pm
Cardboard Boat Races Start	1:00 pm

Attention children and adults! Get in on this annual tradition. You are invited to build a cardboard boat using only cardboard, glue, tape, and paint then paddle it around a 100 yard (children 50 yards) course!
 All boats must be registered in order to race.

Pre-race awards will be announced at 12:30pm and the actual boat races will begin at 1:00pm. After all races have been completed, trophies and medals will be given out to participants.

Entry Rules

***Entry Categories:** Individual and group entries are invited. Boats will race against boats from their same entry category. Below is a list of entry categories.

1	Ages 10 and younger	4	Ages 19 and up
2	Ages 11 - 14	5	Parent and Child
3	Ages 15 – 18	6	School/Civic/Scout/Club/Business

***Rules:** Each boat may be entered in only one category. In order to qualify for a trophy, all crewmembers must be in their boat as they cross the finish line. During the race, boats cannot be pulled or pushed by non-crewmembers. **Life jackets must be worn by all participants when racing. You must supply your own life jacket.**

***Registration Fee** is \$20.00 per boat. This fee includes a free t-shirt for the boat captain and lunch for all crewmembers. Your registration form must be submitted by **July 12th**. No registrations will be accepted after this date.

***Awards** will be given in the following categories:

Best in Show

Most Likely to Float

Titanic (Most Likely to Sink)

People's Choice (awarded to the boat that collects the most donations in their boat's jug.) All proceeds from this award will benefit the Lake Youth Foundation Scholarship Fund.

Rules for Building an Eligible Boat

- *Boats must be made of cardboard.
- *There will be NO metal, wood, rigid foam (such as Styrofoam), or plastic.
- *A builder may use glue, sealant, wax, paint, and spray-on coatings, or duct tape.
- *No motors are allowed. Paddles may be of wood or plastic.
- *Boat names must be clearly visible on the boat during the race.

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2010 Cardboard Boat Regatta Boat Building Tips

Tips for building a boat that may actually float and stay together for the race:

- To float, your boat must displace enough water to support its weight and the weight of the crew. One cubic foot of water weighs about 60 pounds, so if your boat and crew weigh 300 pounds your boat must displace more than 5 cubic feet of water (300 pounds) 60 pounds per cubic foot = 5 cubic feet).
- Any extra cubic feet your boat has will allow the sides to stick up above the waterline (this is called freeboard). Some freeboard is necessary to prevent the boat from being swamped by waves. However, on a windy day too much freeboard makes it difficult to control the boat (wind flowing on the exposed sides acts like a sail pushing the boat off course).
- It is important to strengthen the boat against the water pressure that will push in on the sides and bottom of the boat. You can reinforce your cardboard hull by using more than one layer of cardboard with the waffled inside “grain” of the layers set perpendicular to each other (for example, one layer vertical and the next layer horizontal). It will also help to brace the hull with rigid pieces to keep the sides from collapsing (solid sections that run across the width of the boat are called bulkheads and braces that run from one side of the boat to the other are called thwarts).
- Even a well-designed boat will quickly give way if water gets to any part of its cardboard structure. Overlapping seams sealed with waterproof glue, tape, wax, etc will help keep water from seeping in at the edges. The exposed surfaces of cardboard must also be coated, just be sure the paint or any coating you use is waterproof. Consider coating the inside of the boat as well as the outside of the hull. Water is almost sure to splash in and a boat can collapse from the inside just as quickly as from the outside.
- In general, a long narrow boat will go faster and straighter than a wide boat and a boat with a pointed bow and stern will go faster than a boat with a flat bow and stern. However, a wide boat is easier to maneuver and is not as likely to tip over. Also, a boat with a low center of gravity is less likely to tip over, so keep weight (including the crew) from sitting up high in the boat.
- A boat that is symmetrical and balanced (both side-to-side and fore-to-aft) will move more smoothly and handle more predictably than a boat that is “out of kilter”
- Finally, remember boat building is a series of trade-offs. Experiment; be creative and most important of all – Have Fun!

Lake Youth Foundation 2010 Cardboard Boat Regatta Registration Form

Select individual or group below.

Individual Captain (no crew members)

Boat Captain: _____ Boat Name: _____

Address: _____ Phone No.: _____

Email Address: _____

Entry Category (Circle One): 1 2 3 4 5 6

The Boat Captain's free tee shirt. Select the appropriate size below.

Youth M _____ Youth L _____ Adult S _____ Adult M _____ Adult L _____ Adult XL _____ Adult XXL _____

Deadline to purchase additional shirts is July 12th and the cost is \$10.00 each. Enter the number of additional shirts by size.

Youth M _____ Youth L _____ Adult S _____ Adult M _____ Adult L _____ Adult XL _____ Adult XXL _____

Total number of shirts (do not include free tee shirt) _____ @ \$10.00 per shirt:	\$ _____
Registration fee (\$20 by July 12th):	\$ _____
Total enclosed:	\$ _____

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 Group

Boat Captain: _____ Boat Name: _____

Crew Members: _____

Address: _____ Phone No.: _____

Email Address: _____

Entry Category (Circle One): 1 2 3 4 5 6

The Boat Captain's free tee shirt. Select the appropriate size below.

Youth M _____ Youth L _____ Adult S _____ Adult M _____ Adult L _____ Adult XL _____ Adult XXL _____

Deadline to purchase additional shirts is July 12th and the cost is \$10.00 each. Enter the number of additional shirts by size.

Youth M _____ Youth L _____ Adult S _____ Adult M _____ Adult L _____ Adult XL _____ Adult XXL _____

Total number of shirts (do not include free tee shirt) _____ @ \$10.00 per shirt:	\$ _____
Registration fee (\$20 by July 12th):	\$ _____
Total enclosed:	\$ _____

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Attach a check (made payable to the Lake Youth Foundation) to the registration form. Registration forms can be sent to P.O. Box 964, Locust Grove, VA 22508 or dropped off at the reception desk at the Holcomb Building. If you need any additional information, please contact Diane at 972-8634 or by email at info@lakeyouth.org.