

BUILD IT. RACE IT.

THE ANNUAL MARINE INSTITUTE MODEL BOAT RACE

PROJECT DETAILS



FUNDAMENTAL VALUES

- We are a team.
- We do the work to find solutions with guidance from our coaches and mentors.
- We know our coaches and mentors don't have all the answers; we learn together.
- We honour the spirit of friendly competition.
- What we discover is more important than what we win.
- We share our experiences with others.
- We display professionalism in everything we do.
- We have **FUN!!!**

COMPETITION RULES

1. Teams must consist of a minimum of 2 members plus mentors up to a maximum of 12 members including mentors.
2. Entries must be submitted, in writing, on the standard form included, no later than **January 26th, 2018**. Entries will be accepted via email, fax, or regular mail.
3. The maximum permissible boat length is 700mm, including appendages, rudder arrangement etc.
4. All boat hulls must be of original design by participants.
5. All hulls must be of original manufacture (i.e. no hulls may be purchased).
6. Hulls must **not** be made of, or coated with water soluble materials and must **not** contaminate the Flume Tank.
7. All boats must utilize the propulsion package supplied by the Marine Institute as their only means of propulsion.
8. The boat's rudder must be of the team's own design and construction.
9. All boats must navigate the designated course independently via remote control navigation only, using the control system supplied by the Marine Institute.
10. Each team will receive equal "tank time" to practice navigating the course and complete their timed runs with their boat. Scheduling for tank time will be determined prior to the event.
11. All boat designs will require calculation sheets (provided) to be completed and submitted at race time in a design booklet.
12. Poster board displays are required, introducing the team and the boat design.
13. Models that fail to comply with the stated restrictions will be ineligible for awards but may participate in the completion.
14. All decisions made by the judges, before, during and after the event will be considered final.

THE PRODUCT

1. A remote control boat built by you and your team.
2. A poster board display describing your boat and how you designed and manufactured it.
3. A design booklet.

1. MODEL BOAT

The design and fabrication of boat models is entirely up to the student teams themselves; students have considerable flexibility in determining their final boat shape. Innovation will play a very substantial role in this aspect of the competition.

Two design parameters — overall length of the model (Length: **700mm** maximum) and the requirement to use the propulsion and control system that is provided by the Marine Institute, must be adhered to by all teams.

Teams are encouraged to construct a “cradle” to support their boat in the upright position for working and display purposes.

2. BOAT POSTER BOARD DISPLAY

Each team will be expected to display their boat, a poster board and a design booklet. The displays will be exhibited on tables provided for each team, in a designated area.

A foldable Project & Presentation Display Board, sized 48” x 36” will be created by the students outlining the team members, the inspiration and development of their boat, including photos of the boat under construction. The display board will be evaluated as part of the model package.

3. DESIGN BOOKLET

The Design Booklet should simply be a record of the design concepts that have aided in the development and manufacture of the boat. All information should be organized in a three ring binder which outlines the basic design concepts for the boat. Copies of any sketches or preliminary designs by the students, problems encountered, solutions, alternatives, calculation worksheets (supplied by MI) and a photo gallery of the process would be suggested materials in this submission.

Please note that the design booklet should not be in essay form but rather a collection of ideas and processes that led to the development of the boat and its design. The design booklet will also be evaluated as part of the poster display.

PLEASE NOTE THAT INFORMATION ON JUDGING AND THE RACE COURSE WILL ONLY BE PROVIDED TO THOSE TEAMS PARTICIPATING IN THE RACE.

APPLICATION FOR ENTRY

All applications will be accepted on a first come, first serve basis. Completion of the attached application form is required.

All applications should be forwarded to:

**Fisheries and Marine Institute of
Memorial University of Newfoundland
Academic & Student Affairs
155 Ridge Road
St. John's, NL A1C 5R3**

Attn: Jennifer Howell

Jennifer.Howell@mi.mun.ca

Phone: (709) 778 0686

Fax: (709) 778 0385

OR

Attn: Dawn King

Dawn.King@mi.mun.ca

Phone: (709) 778 0543

Fax: (709) 778 0385

ANNUAL MARINE INSTITUTE MODEL BOAT RACE APPLICATION FOR ENTRY

School Name: _____

School Address: _____

Contact Name: _____

Phone Number: _____

Email Address: _____

TEAM MEMBERS

Teams must consist of a minimum of 2 members plus mentors
up to a maximum of 12 members including mentors.

STUDENT OR MENTOR NAME	GRADE
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	

Lead Mentor

Date