
2020 Robofest Online World Championships (ROWC)

Aug. 28 ~ Oct. 17, 2020

Final Version released on Fri [July 31](#), 2020, at 9am ROWC Kick-Off Day
Revised on Aug 8


Goals of ROWC

1. To provide opportunity and motivation for students to continue to learn STEM, arts, and coding through robotics
2. To enhance online communication & remote teamwork skills
3. To wrap-up 2019-20 season
4. To pilot shifting competitions online and/or virtually when necessary in the future

ROWC Kick-off Meeting Agenda

1. Top level General rules (Shannan Palonis, Robofest Coordinator)
2. Game rules (Dr. Chris Cartwright, Associate Professor & Chief Game Judge)
3. Exhibition rules (Elmer Santos, Robofest Assistant Director)
4. RoboMed rules (Elmer Santos)
5. RoboArts rules (Pam Sparks, Robofest Coordinator)
6. UMC rules (Elmer Santos)
7. BottleSumo Time Trial rules (Elmer Santos)
8. Wrap-up (Shannan Palonis)

Go to robofest.net and visit each category page to get updated ROWC rules and forms

| | |
|---|--|
| GAME | Accomplish robotics mission Game especially <i>puts mat</i> |
| Exhibition | Each team has complete freedom programmed robotics R&C |
| RoboMed  | High School and College team robotics/device projects |
| Vcc | Vision Centric Challenge |
| BOTTLESUMO | Be the first robot to push its robot remaining on the table |
| ROBOParade | A parade of autonomous robots |
| RoboArts | RoboArts (Formerly GRAF Painting, and Interactive K |
| UMC | Unknown Mission Challenge day of competition |

Health Safety First

National Directors, coaches, teams, and volunteers must comply with the local COVID-19 related laws, rules, ordinances, and recommendations.

Existing 2020 Robofest teams may be restructured. *Smaller team size is highly recommended.*

Zoom Housekeeping

We love to see your faces!

Please keep Audio muted

Questions during the presentations?

- Please submit through Chat
- We will answer through Chat
- We will summarize at various points throughout the presentation today

The recording of July 31 presentation was posted to the Robofest.net website on Monday, August 3.

Categories, Dates, and Time in GMT

- Fri, Aug 28 Jr. UMC (Max 30 teams)
- Sat, Aug 29 Sr. UMC (Max 30)
- Fri, Sep 11 Jr. & Sr. RoboArts (Max 20)
- Sat, Sep 12 Sr. & College RoboMed (Max 20)
- Fri, Sep 18 Jr. Exhibition (Max 20)
- Sat, Sep 19 Sr. Exhibition (Max 20)
- Fri, Sep 25 Jr. BottleSumo Time Trial (Max 40)
- Sat, Sep 26 Sr. BottleSumo CL and UL, Time Trial (Max 40)
- Fri, Oct 9 Jr. Game, GolfBowl (Max 35)
- Sat, Oct 10 Sr. Game, GolfBowl (Max 35)
- Sat, Oct 17 Award Ceremonies

**Start time is 12PM GMT
or 8AM EDT** (See next slide)

Maximum duration of a
competition day: 3 hr 30 min

Team registration must be completed 2 weeks before the competition date.

How did we decide the start time?

| Member Countries /Regions | USA Hawaii | USA WEST | Colombia, Ecuador, Mexico City, USA Central | USA EAST | Canada NS | Ghana, Morocco, Sierra Leone | Nigeria | Egypt, Malawi, S. Africa, Zimbabwe | Ethiopia, Bahrain, Greece, Kenya, Qatar, Saudi | UAE | India | China Beij., Hong Kong, Macau, Philippines, Taiwan | S. Korea |
|---------------------------|------------|----------|---|----------|-----------|------------------------------|---------|------------------------------------|--|-----|-------|--|----------|
| GMT | -10 | -7 | -5 | -4 | -3 | 0 | 1 | 2 | 3 | 4 | 5.5 | 8 | 9 |
| time in 24 hours | 15 | 18 | 20 | 21 | 22 | 1 | 2 | 3 | 4 | 5 | 6.5 | 9 | 10 |
| | 16 | 19 | 21 | 22 | 23 | 2 | 3 | 4 | 5 | 6 | 7.5 | 10 | 11 |
| | 17 | 20 | 22 | 23 | 24 | 3 | 4 | 5 | 6 | 7 | 8.5 | 11 | 12 |
| | 18 | 21 | 23 | 24 | 1 | 4 | 5 | 6 | 7 | 8 | 9.5 | 12 | 13 |
| | 19 | 22 | 24 | 1 | 2 | 5 | 6 | 7 | 8 | 9 | 10.5 | 13 | 14 |
| | 20 | 23 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 10 | 11.5 | 14 | 15 |
| | 21 | 24 | 2 | 3 | 4 | 7 | 8 | 9 | 10 | 11 | 12.5 | 15 | 16 |
| | 22 | 1 | 3 | 4 | 5 | 8 | 9 | 10 | 11 | 12 | 13.5 | 16 | 17 |
| | 23 | 2 | 4 | 5 | 6 | 9 | 10 | 11 | 12 | 13 | 14.5 | 17 | 18 |
| | 24 | 3 | 5 | 6 | 7 | 10 | 11 | 12 | 13 | 14 | 15.5 | 18 | 19 |
| | 1 | 4 | 6 | 7 | 8 | 11 | 12 | 13 | 14 | 15 | 16.5 | 19 | 20 |
| | 2 | 5 | 7 | 8 | 9 | 12 | 13 | 14 | 15 | 16 | 17.5 | 20 | 21 |
| | 3 | 6 | 8 | 9 | 10 | 13 | 14 | 15 | 16 | 17 | 18.5 | 21 | 22 |
| | 4 | 7 | 9 | 10 | 11 | 14 | 15 | 16 | 17 | 18 | 19.5 | 22 | 23 |
| | 5 | 8 | 10 | 11 | 12 | 15 | 16 | 17 | 18 | 19 | 20.5 | 23 | 24 |
| | 6 | 9 | 11 | 12 | 13 | 16 | 17 | 18 | 19 | 20 | 21.5 | 24 | 1 |
| | 7 | 10 | 12 | 13 | 14 | 17 | 18 | 19 | 20 | 21 | 22.5 | 1 | 2 |
| | 8 | 11 | 13 | 14 | 15 | 18 | 19 | 20 | 21 | 22 | 23.5 | 2 | 3 |
| | 9 | 12 | 14 | 15 | 16 | 19 | 20 | 21 | 22 | 23 | 24.5 | 3 | 4 |
| | 10 | 13 | 15 | 16 | 17 | 20 | 21 | 22 | 23 | 24 | 1.5 | 4 | 5 |
| | 11 | 14 | 16 | 17 | 18 | 21 | 22 | 23 | 24 | 1 | 2.5 | 5 | 6 |
| | 12 | 15 | 17 | 18 | 19 | 22 | 23 | 24 | 1 | 2 | 3.5 | 6 | 7 |
| | 13 | 16 | 18 | 19 | 20 | 23 | 24 | 1 | 2 | 3 | 4.5 | 7 | 8 |
| | 14 | 17 | 19 | 20 | 21 | 24 | 1 | 2 | 3 | 4 | 5.5 | 8 | 9 |

Events will not start after 9pm or before 5am, every time zone.



No RoboParade \Rightarrow RoboArts

No Vcc

There is no independent RoboParade competition category.

- It is suggested for (selected) RoboParade teams to enter **RoboArts** category
- Teams can make the robot with more artistic features such as to dance while following lines. Add more visual art & musical components. Make it more interactive using sensors

Vcc competition will not be held this year

Online Video Conferencing Tool - Zoom Webinar

- Zoom Webinar Platform with possibility of 500 total connections
- Zoom Webinar provides functions for view only audience
- YouTube Live in addition
- One Zoom panelist connection per **one** team location
- If a team needs more connections due to remote members, please let Robofest Office know
- Exhibition Style (Exhibition, RoboArts, RoboMed) teams who plan to share the screen during their presentation using Zoom, must submit request to Robofest Office prior to the pre-meeting

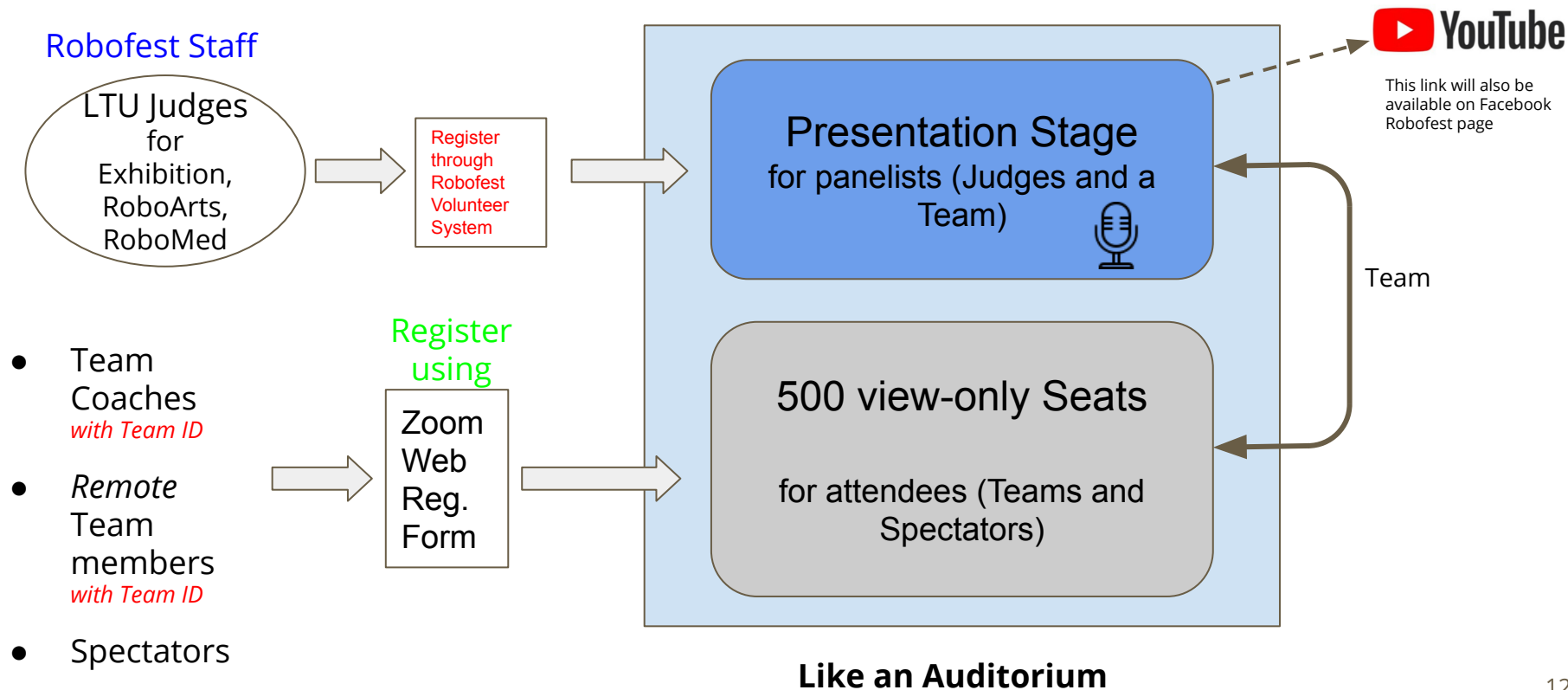
Pre-Meeting in Zoom / Dry-Run

- Teams, Coaches, and Local Judges are *required* to attend a pre-meeting/**dry-run** at 8:00 am EDT - 2 days before the competition day for each category
- We will check Zoom setup, practice the use of Zoom Webinar, precheck the playing field setup, and train Local Judges
- Judges and teams who cannot join their event pre-meeting can attend a general pre-meeting Thursday, September 3 at 7:30 pm EDT OR by appointment (robofest@ltu.edu) subject: Pre-Meeting
- This pre-meeting is essential for preparing the first online World Championship

Setup of Online Participation for Teams

- Each team must be ready to demo & run robots alone at **one** location
- This means each team must have a playing field and means for video conferencing (camera & microphone). We will assign **one** Zoom login for each Game Style team location
- During the Game, UMC, and BottleSumo Time Trial competitions, each team must have its own playing field. We run all robots *at the same time* after unveiling unknown tasks & factors (UTF)
- Multiple teams at one location are not recommended. We may have social distancing issues and audio echo problem if multiple speakers are used

Zoom Webinar Environment: Exhibition, RoboArts, and RoboMed

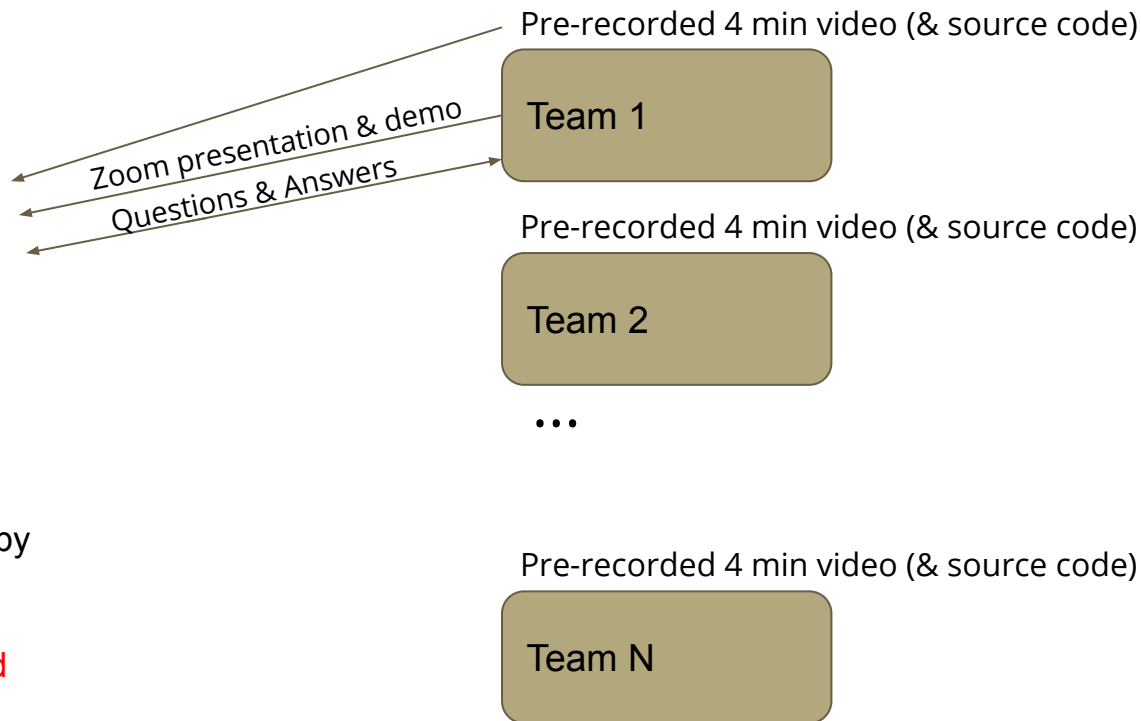


Judging Concept: Exhibition, RoboArts, and RoboMed



A panel of Judges - all appointed by Robofest Office

Code Inspector(s) will recommend points for programming



Ideal Location Setup: Exhibition Style Events



Robot Demo Table

If teams wish to “share screen” during the webinar, request must be submitted prior to the pre-meeting

(Parents are encouraged to leave the location. They can join webinar as spectators **or watch livestream on YouTube** outside the location)

One notebook, tablet or smartphone with microphone & camera; Zoom account must be setup and tested



Coach

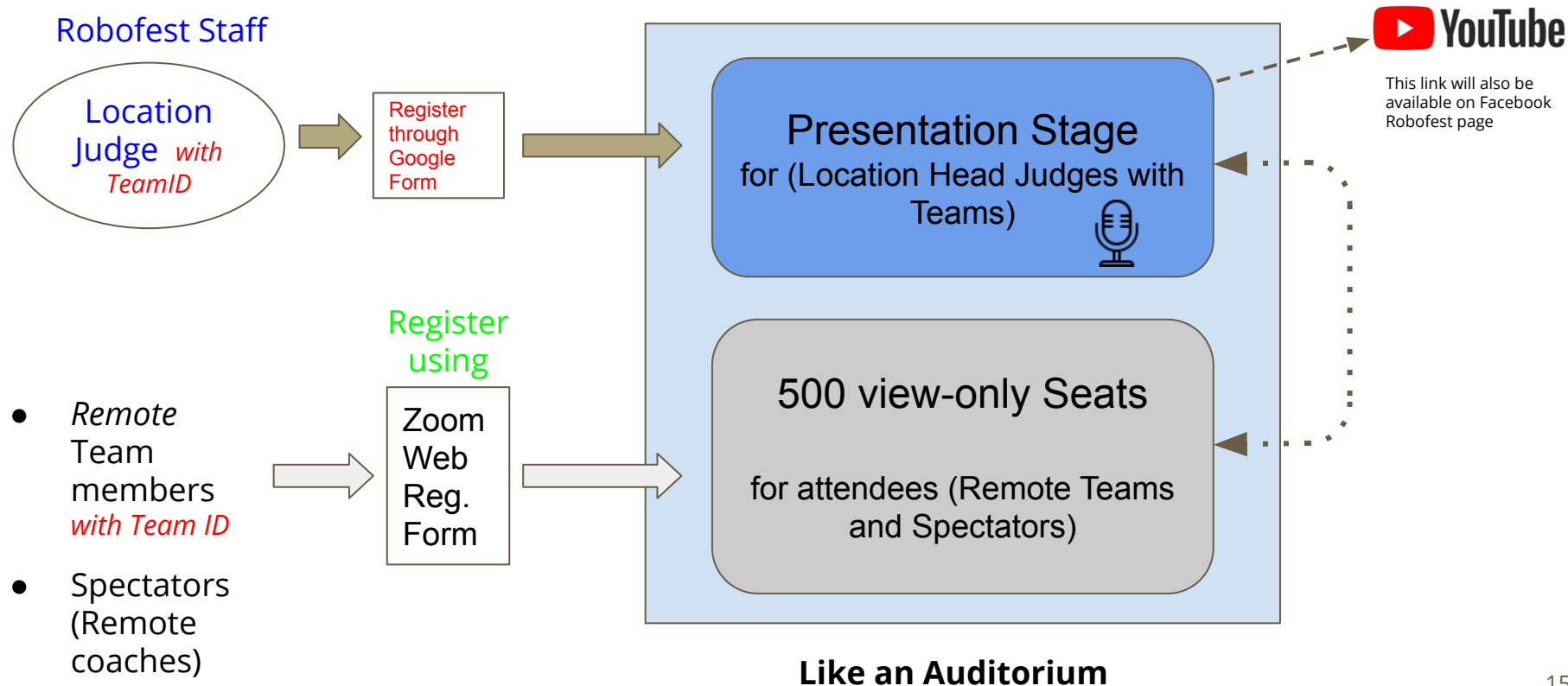


(Assistant) Coach

zoom

Camera

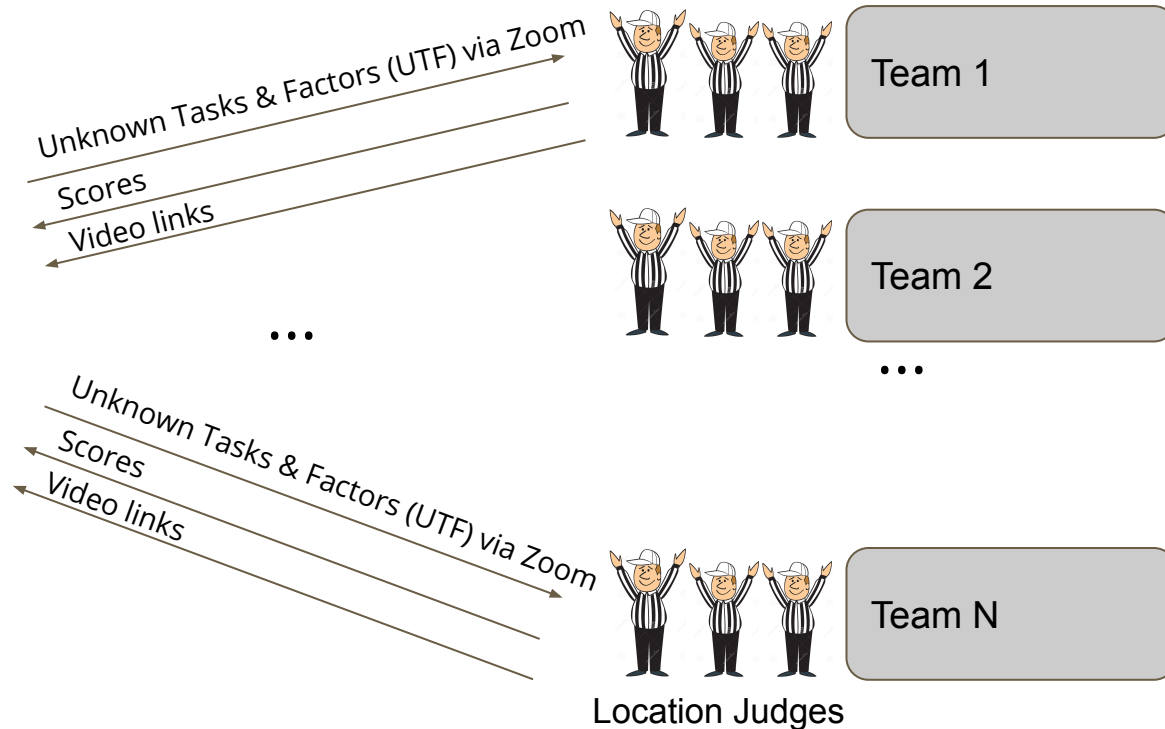
Zoom Webinar Environment: Game, UMC, and BottleSumo



Judging Concept: Game, UMC, and BottleSumo



Robofest Office at LTU

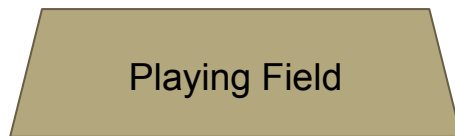


Ideal Location Setup: Game Style Events



Coach

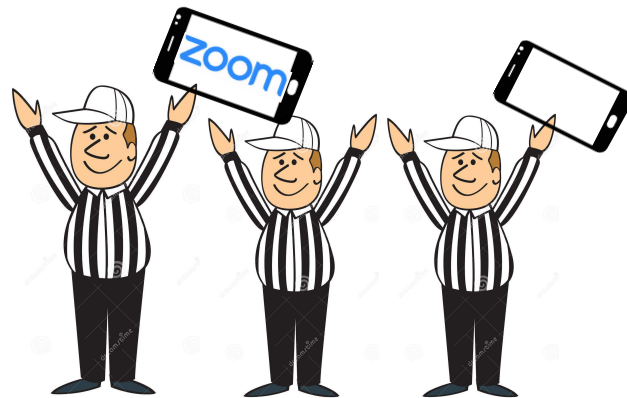
(Parents are encouraged to leave the location. They can join webinar as spectators **or watch livestream on YouTube** outside the location)



zoom

Camera

Two devices with microphone & camera



Location
Head
Judge
(LHJ)

Location
Judge 1

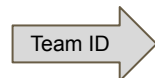
Location
Judge 2 -
Video
recording

Registering the Team in Zoom: Exhibition Style

Team Coach is in charge of the setting up the exhibition table and Zoom camera setup.

- Team must be registered in Robofest Registration System
- Coach Receives email with two Zoom Webinar Registrations (Pre-Meeting Webinar and Event Webinar)
- Coach Registers as “Attendee” in each to include Team ID in “First Name” field
- Remote team members register in Webinars the same way (attendee with Team ID)

Exhibition Style Team Coaches & Remote team members will Register for Zoom as ATTENDEES (Enter Team ID before your first name):



First Name *

1234-2 YourFirstName

Last Name *

Last Name

Email Address *

youemail@gmail.com

Confirm Email Address *

youemail@gmail.com

I am a... *

Team Coach

Team ID (if you selected Team in the previous question)

1234-2

Register

Zoom Registration Link will be available to the public

*Spectators should **not** include Team ID in registration*

For Zoom security reasons, one email address cannot be used for multiple computers

Registering the Team in Zoom: Game Style

Approved Location Head Judge (LHJ) - a person who is in charge of setting up the playing field, Zoom camera setup, proctoring, and Judging

- Must be approved by the National Director
- Register through Google Form (include Team ID)
- LTU registers you for Zoom Webinar as a “Panelist” for 2 Zoom Webinars (Pre-Meeting Webinar and Event Webinar)
- Receive email with Zoom Webinar links
- Save Links to log on to Webinars at the scheduled date/time

How to appoint Location Judges for each physical location of Game Style Competition

- Method 1: National or Regional Director appoints & send Judges to each location (preferred)
- Method 2: Each team recommends Judges and National Director select/ approve them

Once Approved, Judges register through Google Form (Need Authorization code.)

<https://forms.gle/bfBDxcZwNgg8RZkW8>

Highly encouraged to take GolfBowl Game Certification provided by Robofest eAcademy at <https://www.robofest.net/index.php/eacademy/judge-certification>



2020 ROWC Location Judge Registration

Complete this form to register as a Location Head Judge (LHJ) or Location Judge (supporting the Location Head Judge) for any of the 2020 Robofest Online World Championship (ROWC) Game Style Events. Complete one registration per Division/Category.

Once submitted, please check your email regularly for notifications.

Location Head Judges will receive an email with a unique link to log in as a 'Panelist' in the corresponding ZOOM webinar.

Location Judges will receive a confirmation email but will not log in to the webinar directly.

* Required

AUTHORIZATION CODE *

Location Head Judges must be approved by Robofest Office or National Director to receive the Authorization code.

Your answer

EMAIL ADDRESS *

Your answer

DIVISION/CATEGORY *

You may judge more than one category, but please complete a separate registration for each. All times are EDT (GMT-4). The Pre-meeting is a required event. If you cannot attend the assigned pre-meeting, there will be 2 additional General pre-meetings scheduled and you must attend one of those.

- ☐ JR UMC - (Fri. Aug. 28 9:00 am; Pre-Meeting Wed. Aug. 26, 8:00 am)
- ☐ SR UMC - (Sat. Aug. 29 9:00 am; Pre-Meeting Thurs. Aug. 27, 8:00 am)
- ☐ JR BottleSumo Time Trials (Fri. Sept. 25, 9:00 am; Pre-Meeting: Wed. Sept. 23, 8:00 am)
- ☐ SR BottleSumo Time Trials (Sat. Sept. 26, 9:00 am; Pre-Meeting: Thurs. Sept. 24, 8:00 am)
- ☐ JR Game - GolfBowl (Fri. Oct. 9, 9:00 am; Pre-Meeting: Wed. Oct. 7, 8:00 am)
- ☐ SR Game - GolfBowl (Sat. Oct. 10, 9:00 am; Pre-Meeting: Thurs. Oct. 8, 8:00 am)

JUDGE TYPE: *

- ☐ Location Head Judge (LHJ)
- ☐ Location Judge (LJ) - Supporting the Location Head Judge

LOCATION CITY, STATE, COUNTRY

Short answer text

PHONE NUMBER

Short answer text

ROWC TEAM NUMBER *

You must be associated with a registered ROWC team. Please contact the Team Coach or Robofest if you are unsure of the team number.

Short answer text

BIOGRAPHY *

Provide a brief description of your credentials and experience with Robofest, robotics or STEM. This information will be published and shared with teams.

Long answer text

LOCATION JUDGES

On my honor, I agree to serve today as an official location judge of a Robofest online World Championship in a completely fair and impartial manner for this global event.

I personally commit to this responsibility with no previous conflicts of interest, direct relationship to the teams, or pre-determined expectations for the outcome of the competition.

I understand the spirit of Robofest - that students solve problems and adult coaches/parents are not allowed to assist during the competition.

I have read the rules carefully, understand them clearly, and will make my evaluations based on the rules.

After the competition, I will submit videos and scores with integrity.

AGREEMENT

By submitting this form:

I agree to the Location Judge's Oath

I agree to the Robofest Informed Consent, Release and Media Authorization

<https://robofest.net/RobofestConsentReleaseForm.pdf>

I consent to the Robofest Privacy Policy. <https://robofest.net/LTU-Robofest-Privacy-Policy.pdf>

Game Style Location Judges will Register in Google Form

Form Link:

<https://forms.gle/bfBDxcZwNgg8RZkW8>

One Registration
Submission per
Division/Category

Location Judge's Oath

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How Teams Advance: Main Categories (Game and Exhibition)

- Using the current 2019-2020 rules:
 - Teams from official sites completed already
 - Teams from the Video Submission Sites (Due Aug 3)
 - Teams by Official *Exclusive* National Directors (Approved team quota by Robofest Director, cchung@ltu.edu)
- Some spaces for teams filled by new countries (first come first serve)
- Some spaces for (new) teams filled by the USA (first come first serve)

How Teams Advance: Open Categories (RoboArts, RoboMed, UMC, BottleSumo)

- Spaces for teams filled by Official *Exclusive* National Directors
- Some Spaces for teams filled by new countries (first come first serve)
- Some Spaces for teams filled by the USA (first come first serve)

ROWC Team Registration Process

- US and International Events scheduled in Robofest System and conducted before shutdown and Video Qualifier teams:
 - Site Host/Director will confirm which teams advance to ROWC events (established quota)
 - Robofest Staff will copy teams from local event to ROWC event
- International Events scheduled in Robofest System but not conducted (Options 1 & 2):
 - Site Host/Director - notify Robofest Office which teams advance to ROWC (established quota)
 - Robofest Staff will copy teams from local events to ROWC events
- If International teams are not currently registered in local site:
 - Registration can be reopened for coaches to register teams in local site
 - Robofest Office will work with Site Host/Director individually to coordinate
- International Winning Teams not in Robofest System (Option 3):
 - Placeholder Events (Winners_Country) created in Robofest System (established quota)
 - Coaches/Site Directors register teams in placeholder site (beginning 7/31/20)
 - Robofest Staff will copy teams from local events to ROWC events
- ROWC events will be open to edit - Coaches can log on and update team data
- Remaining Capacity in ROWC events will be opened for new teams to register (FCFS)

Awards & Awards Ceremonies

- All the winners will be announced on Sat. Oct 17th
- 20% teams will be recognized as winners for each category
- Special awards
 - Team Spirit Awards decided by Robofest Office staff
 - Innovative Design Awards decided by LTU Judges
 - Team photo Awards decided by Robofest Office staff
- Individual Winner Team Pages on Robofest site will be set up after
- PDF Certificate of Participation can be downloaded from Robofest system
- Participants may receive scholarships if they come to LTU

Registration Fees

- \$10 USD per team for each category. Credit card via PayPal is only accepted.
- Since this fee will help get commitment, every team **MUST** pay when **registered**. If a team paid \$50 2019-2020 fee and completed qualifying participation, then the new \$10 will be refunded if the team does not drop out.
- Teams can *order* the following items (Exact cost will be announced later):
 - Paper Certificates
 - Paper Award Certificates
 - Participation Medals
 - Winner Trophies
 - Some Robofest promotional items

Robofest Contestant Pledge (for Game Style Competitions)

As a Robofest team member, I understand that the focus of Robofest is about learning through competition.

I will show personal integrity by honoring all Robofest rules, valuing fair competition and respecting judges and all other participants.

I will do my own work. I will NOT receive outside help from coaches, mentors, electronic devices or other sources during competitions and I will strictly follow impounding procedures.

I pledge make the first Online Robofest 2020 great by upholding the Spirit of Robofest.

Videos of the Mock Competitions

Mock Online “GolfBowl” Game Competition Videos:

- 12 min version
- 29 min version

Mock Online Exhibition Competition Videos:

- 9 min version
- 32 min version

Mock Online BottleSumo Time Trial Competition Videos:

- 9 min version
- 29 min version

Wrap Up

International Directors:

- Contact Dr. Chung if team quota has not been determined
- Register advancing teams in existing local or “Winner” Sites
- Notify Robofest Staff ASAP if you need to re-open registration to add or update teams
- Send list of advancing teams to Robofest Staff
- Assign Location Judges for Game Style Teams - Provide Authorization Code (sent in email)

Wrap Up

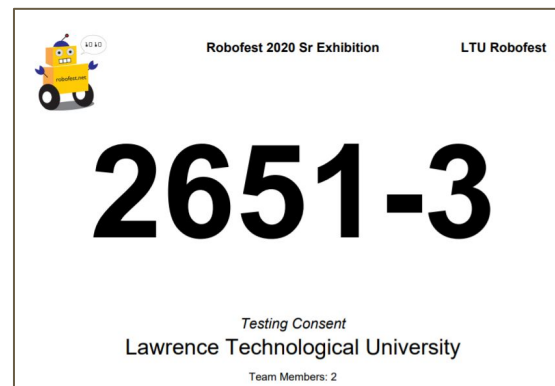
Location Head Judges:

- Receive Authorization Code from International Director or Robofest Office
- Register through Google Form
- Communicate with Team Coach
- Attend Pre-Meeting
- Complete entire checklist and be ready to show during event check-in

Wrap Up

Coaches:

- Validate Team Data once transferred to ROWC sites
- Coordinate Team Location
- Communicate with Location Head Judge (Game Style events)
- Print Team Sign (File Operations on Coach Home Page)



Wrap Up

All:

- Thank you again
- Embrace the Challenges!
- Celebrate your accomplishments!
- Promote your team! - Contact your local media outlets
- See you all again soon...

Additional Questions?

robofest @LTU.edu



Stay safe, Stay healthy,
and Stay learning

Robofest Zoom Office Hours:

Wednesday 10:00 am ~ 11:00 am EDT

Thursday 7:00 pm ~ 8:00 pm EDT

Weekly until October 15

To Join:

<https://ltu.zoom.us/j/2482043568>