



18<sup>th</sup> Annual

2017

LAWRENCE TECHNOLOGICAL UNIVERSITY  
**ROBOFEST**

**World Championship**

June 1-3, 2017

St. Pete Beach Community Center  
7701 Boca Ciega Dr.  
St. Pete Beach, Florida 33706



*Main Sponsors*

**DENSO**

**TOYOTA**



*Venue Sponsors*

*Computer Learning Center*  
Where Learning is a Pleasure



# Important Things to Know about Venue & Events

## Maps for Building & Rooms



## Food

Thursday evening, June 1<sup>st</sup>, "Welcome Get Together", 5:30pm - 7:00pm at **Upham Beach**, located at 6700 Beach Plaza, St. Pete. Beach. A concession (Paradise Grille) is located on the beach, serving a variety of food items & beverages (including beer/wine) [Menu](#).

Friday: Mae's Mobile Truck (<http://www.maesmobile.com/menu>)

## Saturday

- St. Pete. Beach Fire Department working the grill serving hamburgers, hot dogs, chips and drinks for a small fee.
- 2 Food Trucks on site. Their website and menus are in the links below.
  - Mae's Mobile Truck (<http://www.maesmobile.com/menu>)
  - Maggie on the Move (<http://maggieonthemove.com/index.php/menu.html>)
- In addition to the food trucks, there are some restaurants within a 3 block walk.
  - Vitos & Michaels Pizzeria 7704 Blind Pass Road; Chill Restaurant and Bar 357 Corey Ave; Nori Thai Restaurant 7612 Blind Pass Road; Verducci's Pizzeria Trattoria 7736 Blind Pass Road; Tuttorossa Pizzeria 7863 Blind Pass Road; PJ's Oyster Bar 7490 Gulf Blvd; Beverly's La Croisette 7401 Gulf Blvd.

## Communications

- **Wifi** – Available **FREE** at the St. Pete. Beach Community Center. No password is needed.
- **Live streaming** of the event all 3 days on Facebook <https://www.facebook.com/spbrec/>
- Friday evening, June 2<sup>nd</sup> BottleSumo competition & Saturday, June 3<sup>rd</sup> competitions will be live streamed to [www.stpetebeach.org](http://www.stpetebeach.org), just click on the Robofest logo on the main page to watch.
- Locals can also view the competition on our **Spectrum channel 642**
- Florida PBS, WEDU will be covering Friday afternoon/evening and all day Saturday

## Misc.

For other needs near the Community Center: Winn Dixie Supermarket and Walgreen's Drug Store.

World Robofest 2017 Schedule at a glance *(tentative, updated May 27)*

| DATE              | TIME             | Gymnasium   | Underneath  | Raymond room   | Boca Ciega room                                     |
|-------------------|------------------|---|---|--|---|
| Thursday - June 1 | 8:30am ~         | Setup begins  | Setup begins  |  |   |
|                   | 10am - 5pm       | Game and BottleSumo practice area open.                                   | Open to participants (teams can practice)   | Drawing contest setup & Judge meeting<br><b>(1:30~4pm) Robot Drawing Contest</b> | (1pm ~ 4pm) RoboParade setup & Judges meeting       |
|                   | 5:30pm ~         | Welcome Get Together @ Upham Beach. No RSVP needed. Concessions available |   |  |   |
| Friday - June 2   | 8:30am - 11:30am | Game, BottleSumo Practice areas are open                                  | Teams can practice  | <b>WISER 1</b>   | <b>RoboParade</b>                                   |
|                   | 11:30am-12:30pm  |   | Polytech U. demo. Lunch for WISER*  | UMC Setup & Judges meeting   |   |
|                   | 12:30 - 4:00pm   | <b>(1pm~ ) Surprise Challenge for Game Teams(*2)</b>                      | Teams can practice  | <b>WISER 2</b>   | JR. & SR. UMC (Unknown Mission Challenge)           |
|                   | 4:00 ~ 4:30pm    | BottleSumo Setup & Judge Training   |   |  |   |
|                   | 4:30-5:00pm      |   |   |  |   |
|                   | 5:00-8:30pm      | <b>Jr &amp; Sr BottleSumo</b>   | Pizza dinner (*3)   | Vcc setup, Judge training & team practice  | Exhibition & GRAF teams begin setup; Judges meeting |
|                   |                  |   | (7pm ~ ) Game Judge training  |  |   |
|                   | 8:30-9pm         | Game Setup  |   |  |   |
| Saturday - June 3 | 8:00am           | Game Judge meeting  | Team Check In   | Vcc Judge meeting  | Exhibition & GRAF Judge meeting                     |
|                   | 9:00 - 9:30am    |   | Opening Ceremonies  |  |   |
|                   | 9:30am - 3:45pm  | <b>Game</b>   | Live Stream Viewing & Concession Area<br>(12:10~12:45pm)<br>Award Ceremonies 1 (*4) | <b>Vcc</b>   | <b>Exhibition &amp; GRAF teams</b>                  |
|                   |                  |   | Live Stream Viewing & Concession Area   |  |   |
| 3:50-4:30pm       |                  | Closing & Award Ceremonies 2  |   |  |   |

(\* ) Free only for WISER presenters

(\*2) Optional. Only for official Game teams. Just show up at 12:30pm to participate

(\*3) Free for everyone (teams, volunteers, parents, etc.), sponsored by LTU Robofest

(\*4) Video Qualifier, Drawing, RoboParade, WISER, RoboHit Surprise, UMC, BottleSumo, and Team Photo

# ROBOT DRAWING CONTEST

Thursday June 1, 2017

1:30pm ~ 4:00pm

Raymond Room

**Schedule** (Note – times are approximate)

|                             |   |
|-----------------------------|---|
| <b>12:30 pm</b>             | <b>Check-In begins at the entrance of the Community Center, Breeze Way</b>  |
| <b>1:30 pm</b>              | <b>Welcome – Scott Howard</b> , Drawing Contest Chairperson<br>Brief introduction of contest rules<br>Introduction of Judges - Drawing Contest Chairperson  |
| <b>1:40 pm</b>              | Announcement of contest theme - Chairperson<br><i>Spectators, coaches, and parents must leave the room. Only students, Judges, and volunteers can stay in the room. Unauthorized communication/activity between students and parents/coaches is prohibited.</i> |
| <b>1:45 pm ~<br/>3:15pm</b> | <i>Distribution of supplies</i><br>Drawing & writing time   |
| <b>3:15 pm</b>              | Collection of drawings and contest forms  |
| <b>3:20 pm</b>              | Award of Certificates and Group Photo   |

## Announcement

- All the drawings will be displayed in the multipurpose Underneath area.
- Trophy Winners will be announced on Saturday, June 3 at noon in the Underneath area.
- All the participants will receive a medal on Saturday at noon. Medals may be picked up today if student cannot attend the awards ceremony on Saturday at noon.



**Photos and Video of this event will be posted on “Robofest Official” Facebook page at [facebook.com/Robofest](https://www.facebook.com/Robofest)**

# ROBOParade™

Friday, June 2<sup>nd</sup>, 2017

8:30am ~ 11:30am

Boca Ciega Room

| Time     | RoboParade Activities   |
|----------|---|
| 08:00 am | Team Check-in begins; set up team tables; PCA judge registration begins.  |
| 08:30 am | Welcome by <b>Fred Miller</b> , RoboParade Chairperson<br>Introduction of Judges                                      |
| 08:35 am | Qualifying Test begins; Official flag will be given if passed   |
| 9:30 am  | PCA judge registration ends.  |
| 9:30 am  | Parade team introduction (Max. 1 minute is given for each team)   |
| 10:00 am | Start the <b>Official Parade 1</b> . Judges and Registered PCA judges are invited to get a Closer View of the Robots  |
| 10:30 am | Parade teams may fix robots.  |
| 10:45 am | Start the <b>Official Parade 2</b> . Judges and Registered PCA judges are invited to get a Closer View of the Robots. |
| 11:20 am | PCA judging forms are due.  |
| 11:20 am | Closing and Certificate Award ceremonies<br>Group Pictures<br>End of PCA Judging form collection                      |

**2017 Parade theme is tropical beach "Surf and Sand"**

## RoboParade Traffic rules (Qualifying Test)

1. Robot must be fully autonomous with an official rear bumper
2. Robot must have a reliable program to follow a black line on a bright surface.
3. Robot must have the ability to detect a vehicle in front of it and stop; then automatically re-start when the vehicle in front has cleared.
4. Robot must display current speed and the speed must be greater than 9cm / sec and less than or equal to 18 cm / sec
5. Length of a unit must be less than 35cm
6. Each team member must complete a survey

## Announcements

- Trophy Winners will be announced on Saturday June 3 at noon in the multipurpose Underneath area.
- All the participants will receive a medal on Saturday at noon. Medals may be picked up today if student cannot attend the awards ceremony on Saturday at noon.
- PCA Raffle will be conducted on Saturday during the Closing Ceremony at 3:00 pm – You must be present to win prizes.



## 21 RoboParade Teams

| TeamID | Team Name                  | Organization                             | Coach             | Team City        | State      |
|--------|----------------------------|--|-------------------|------------------|------------|
| 421-3  | MS003                      | Dong-Jak Center KOREA                    | KYUNGSEOL LEE     | Seoul            | Korea      |
| 421-4  | MS004                      | Dong-Jak Center KOREA                    | KYUNGSEOL LEE     | Seoul            | Korea      |
| 421-5  | MS005                      | Dong-Jak Center KOREA                    | KYUNGSEOL LEE     | Seoul            | Korea      |
| 1686-7 | Seoul Dynamics             | Creative Robot Inventions                | DAEWON LEE        | Seoul            | Korea      |
| 1686-8 | Laboratory                 | Creative Robot Inventions                | DAEWON LEE        | Seoul            | Korea      |
| 1687-5 | CRA J3216                  | K-USROBOT                                | il chang Jung     | Ulsan City       | GND, Korea |
| 1687-6 | CRA J215                   | K-USROBOT                                | il chang Jung     | Ulsan City       | GND, Korea |
| 1700-1 | Courageous                 | Homeschool Robotics                      | Jackie Ryan       | Sterling Heights | MI, USA    |
| 1850-3 | Pocket Tema                | R&G Robot Center                         | Ji Seon Cheon     | Seoul            | Korea      |
| 2401-5 | ILLINOIS TEAM              | Yama Learning Center                     | Prasuna Muddasani | Naperville       | IL, USA    |
| 2580-3 | HWSuper Team 3             | RFChina-BJFLES                           | Cuirong Liu       | Beijing          | BJ, China  |
| 2583-2 | Shanghai Team Two          | RFChina-China Shanghai Team              | Weiqing He        | Shanghai         | SHG, China |
| 2610-1 | A-School Robotic Team      | HKBUAS Wong Kam Fai Sec & Pri School     | LUK SHING YEUNG   | Hong Kong        | Hong Kong  |
| 2674-4 | Space Falcons              | Farnell Middle School                    | Alicia Ponds      | Tampa            | FL, USA    |
| 2720-4 | RoboLabs                   | Hoben Elementary School                  | Danielle Pusilo   | Canton           | MI, USA    |
| 2806-5 | Save the Orangutans        | John Hopkins Middle School STEM          | Nicole Golden     | St. Petersburg   | FL, USA    |
| 2836-1 | Cangzhou Xinhua robot team | RFChina-Cangzhou                         | RUIMIN LIU        | Cangzhou         | BJ, China  |
| 2841-2 | Lanzhou Xigu Lego Team 2   | RFChina-Lanzhou Xigu Lego                | LU ZHANG          | Lanzhou          | BJ, China  |
| 2875-1 | Ding Ding Hong Kong        | Buddhist Wong Fung Ling College          | CHI KIN AU        | Hong Kong        | Hong Kong  |
| 2878-1 | TNK(HK)No.1                | PLK Tong Nai Kan Junior SecondaryCollege | CHUN HIN KWOK     | Hong Kong        | Hong Kong  |
| 2879-1 | TNK(HK)No.2                | PLK Tong Nai Kan Junior SecondaryCollege | YIU MAN LI        | Hong Kong        | Hong Kong  |

### ***A Special Human Body Lettering Challenge for ALL Robofest Groups***

Create a “THANK YOU” photo such as the following. Post the photo on Facebook page @Robofest and/or email at [robofest@LTU.edu](mailto:robofest@LTU.edu) by June 2, 11:59pm. Selected photos will win prizes and be used to thank sponsors and volunteers.



# WISER

World conference on Integrated STEaM Education through Robotics

Friday, June 2, 2017

9:00am ~ 3:05pm

Raymond Room

## Robofest Coaches, Assistant Coaches are free to attend this conference.

- 9:00am – *Welcome remarks* by Dr. Sibrina N. Collins, PhD, Executive Director, The Marburger STEM Center, Lawrence Technological University
- 9:10am - *Plenary Talk "Past, Now, Future of Robotics Education"* by Dr. CJ Chung, Founder & Director of Robofest; Associate Computer Science Chair, LTU

| Name  | Title  | Starting time                               |
|---|--|---|
| DaeWon Lee  | Physical computing with physical activity  | 9:20am                                      |
| David A Carbery PE  | Comparing skills between Robofest and a career in Robotics                             | 9:45am                                      |
| Eric Liu  | Robot Arm: Remote Control Vs Master/Slave System                                       | 10:10am                                     |
| Sandeep Hiremath  | Programming LEGO MINDSTORMS EV3 using MATLAB and Simulink                              | 10:35am                                     |
| Dr. Dean Bushey,<br>Jonathan Morris, and<br>Saivamsi Hanumanthu | Autonomous & Self-driving Car Demo   | Presentation at 11:00am;<br>Demo at 11:30am |
| Lunch break 11:30am ~ 1pm                                       |  |   |
| Bing Wei  | Robotic Education and Training of Students' Engineering Thinking in Senior High School | 1:00pm                                      |
| Latha MURTHY  | Robotics in Indian Schools   | 1:25pm                                      |
| Laura Spence  | K-12 STEM Programs in Pinellas County Schools  | 1:50pm                                      |
| Pieter Pretorius  | Robot Sport : Commitment   | 2:15pm                                      |
| Emma Alaba  | Accessing Robofest competitions in Florida and the STEM impact on the Tampa Bay Area   | 2:40pm                                      |



## Unknown Mission Challenge

Friday, June 2<sup>nd</sup>, 2017

Noon ~ 4:30pm

Boca Ciega Room

**Schedule** (Note – times are approximate)

|                 |   |
|-----------------|---|
| <b>11:00 am</b> | <b>Team Check-In begins at the entrance of the Community Center, Breeze Way</b>   |
| <b>12:00 pm</b> | <b>Welcome</b> – Mr. David Carbery, UMC Chairperson, FANUC Robotics<br><br>Brief Introduction of Rules<br><br>Introduction of Judges and Volunteers   |
| <b>12:10 pm</b> | <i>Spectators and coaches must leave the gym area. Only students, Judges, and volunteers can stay in the room. Teams will be immediately disqualified if any illegal communication/activity is detected.</i><br><br>Unknown Mission Unveiled. |
| <b>3:00 pm</b>  | Robot Impound closed  |
| <b>3:10 pm</b>  | Runs begin. Teams will have two chances to test.  |
| <b>4:15 pm</b>  | Closing & Award Ceremony<br>Certificate of participation will be given to all contestants.<br>Group picture   |
| <b>4:30 pm</b>  | Cleanup begins. Teams are asked to clean up pit area.<br>All UMC teams are invited to Pizza Dinner Party at 4:30pm.   |

### Announcements

- Parents and Coaches are not allowed to be inside the Boca Ciega Room after 12:10pm.
- Official translators can be available, if requested by Thursday June 1<sup>st</sup>, 7pm to the Chairperson.
- Trophy Winners will be announced on Saturday, June 3 at noon in the multipurpose Underneath area.
- All participants will receive a medal on Saturday at noon. Medals may be picked up today if student cannot attend the awards ceremony on Saturday.



## 15 Jr. UMC teams

| TeamID  | Team Name                | Organization                     | Coach                       | Team City | State      |
|---------|--------------------------|----------------------------------|-----------------------------|-----------|------------|
| 1686-5  | Seoul Dynamics           | Creative Robot Inventions        | DAEWON LEE                  | Seoul     | GYD, Korea |
| 2109-41 | Lego Legion              | LEGO LEGION                      | Srinivas Bommidi            | Novi      | MI, USA    |
| 2308-7  | ICON Junior 01           | ICON WORLD                       | JAEHYEONG YOU               | Incheon   | GYD, Korea |
| 2308-8  | ICON Junior 02           | ICON WORLD                       | JAEHYEONG YOU               | Incheon   | GYD, Korea |
| 2579-2  | HEB Lego                 | RFChina-VSLE                     | Xiaoxing Nie                | Haerbin   | BJ, China  |
| 2590-1  | LegoTown Light Team      | RFChina-LEGOTOWN                 | Jian Zhang                  | Beijing   | BJ, China  |
| 2590-2  | LegoTown Taller Team     | RFChina-LEGOTOWN                 | Jian Zhang                  | Beijing   | BJ, China  |
| 2603-2  | MSCPS1                   | Munsang College Primary School   | WONG SIU YUEN               | Hong Kong | Hong Kong  |
| 2603-3  | MSCPS2                   | Munsang College Primary School   | WONG SIU YUEN               | Hong Kong | Hong Kong  |
| 2720-3  | RoboLabs                 | Hoben Elementary School          | Danielle Pusilo             | Canton    | MI, USA    |
| 2735-16 | Hi-TIX                   | TIX Robotics                     | TIX Robotics                | Hyderabad | TGI, India |
| 2737-2  | Jammin' Awesome Blockies | JEKs                             | Steven Sinclair             | Aurora    | IL, USA    |
| 2837-3  | Chinese boy              | RFChina-Huhehaote Lego Education | TIEQING HAN                 | Huhehaote | BJ, China  |
| 2897-3  | GARAGE ENTERPRISE        | Garage Enterprise                | JESUS GIOVANNI RAMOS GASPAS | Morelos   | Mexico     |
| 2898-2  | TECNOBOTICS ALUX         | TECNOBOTICS                      | Laura Hernandez Estrada     | Pachuca   | Mexico     |

## 11 Sr. UMC teams

|         |                        |                                  |                             |             |            |
|---------|------------------------|----------------------------------|-----------------------------|-------------|------------|
| 2109-42 | Buddies                | LEGO LEGION                      | Srinivas Bommidi            | Novi        | MI, USA    |
| 2109-43 | Tobors                 | LEGO LEGION                      | Srinivas Bommidi            | Novi        | MI, USA    |
| 2170-6  | King's-Edgehill School | King's-Edgehill School           | DJ DeCoste                  | Windsor     | NS, Canada |
| 2308-9  | ICON Senior 01         | ICON WORLD                       | JAEHYEONG YOU               | Incheon     | GYD, Korea |
| 2308-10 | ICON Senior 02         | ICON WORLD                       | JAEHYEONG YOU               | Incheon     | GYD, Korea |
| 2383-4  | Robats                 | Horton High School               | Neil Burgess                | Wolfville   | NS, Canada |
| 2601-2  | RIHK Team A            | Robot Institute of Hong Kong     | YAU KA CHUN                 | Hong Kong   | Hong Kong  |
| 2606-1  | WWT1                   | Buddhist Wong Wan Tin College    | LEUNG KAI FAN               | Hong Kong   | Hong Kong  |
| 2837-1  | Coyote                 | RFChina-Huhehaote Lego Education | TIEQING HAN                 | Huhehaote   | BJ, China  |
| 2896-1  | T.A.C.O.S              | Divertrobots                     | Elisa Marrero Hernandez     | Atlacomulco | Mexico     |
| 2897-2  | GARAGE COORPORATION    | Garage Enterprise                | Jesus Giovanni Ramos Gaspar | Morelos     | Mexico     |

Robofest is not possible without coaches' leadership and dedication. In 2017 we have recognized the following coaches who have reached their anniversary year.

- 15 year coach: Scott Eisele
- 10 year coaches: Zachary MacLean and Lynn Okamura
- 5 year coaches: Jackie Ryan, Rick Draper, Jason Mastropietro, Timothy Grau, and
- Elizabeth Kissner

# BOTTLESumo

Friday, June 2<sup>nd</sup>, 2017

5:00pm ~ 8:30pm

Gymnasium

**Important Note: There will be 4 Jr groups and 2 Sr. groups. Each team must know its group number.**

**Tentative Schedule** (Note – times are approximate)

|                |   |
|----------------|---|
| <b>4:00 pm</b> | <b>Team Check-In begins.</b> Teams may practice on the official fields.   |
| <b>5:00 pm</b> | Welcome by Elmer Santos, Jr BottleSumo Chairperson & Robofest Assistant Director and David Carbery, Sr. BottleSumo Chairperson  |
| <b>5:10 pm</b> | <i>Adults are asked to leave pit before unveiling.</i><br>Unveiling how to start a game by Elmer Santos.<br>30 min work-time begins.  |
| <b>5:40 pm</b> | Impounding of robots begins. Weight and size will be checked. Each robot must have ID tag.  |
| <b>5:50 pm</b> | Qualifying Time Trials begin on <u>6 tables</u> (4 Jr. groups and 2 Sr. groups) in parallel; Each team will have max 120 seconds. If the robot falls off the table, automatically 121 seconds will be assigned. Each ring will use its own timer.<br>Expected max time taken: 3 min x 13 = 40 minutes; Robots must be returned to the impounding table. |
| <b>6:30 pm</b> | Teams can pick up robots.<br><b>20 min</b> work-time begins.<br>Seeded single elimination tournament bracket for each group announced.  |
| <b>6:50 pm</b> | 2 <sup>nd</sup> Impounding of robots begins. Weight and size will be checked again. Each robot must have ID tag.  |
| <b>7:00 pm</b> | <b>Single elimination match begins on <u>6 tables (4+2 groups) in parallel</u></b><br><i>Average time for a match: 4 min; Max 13 matches x 4 min = 52 minutes</i>   |
| <b>7:55 pm</b> | Semi-final Matches for Junior: Winners of Group 1 and G3, Winners of G2 and G4  |
| <b>8:05 pm</b> | Final Match for Junior  |
| <b>8:10 pm</b> | Final Match for Senior  |
| <b>8:20 pm</b> | Closing & Award Ceremony<br>Certificate of participation will be given to all contestants.<br>Group picture   |
| <b>8:30 pm</b> | Cleanup begins  |

## Announcements

- Parents and Coaches are not allowed to be inside the gym after 5:10pm.
- Official translators can be available, if requested by Thursday June 1, 7pm to the Chairperson.
- Trophy Winners including Time Trial winners will be announced on Saturday June 3 at noon in the multipurpose “Underneath” area.
- All the participants will receive a medal on Saturday June 3 at noon. Medals may be picked up today if student cannot attend the awards ceremony on Saturday.

### Jr. BottleSumo Group 1 (11)

| teamID  | Name               | Organization                    | Coach            | City          | State      |
|---------|--------------------|---------------------------------|------------------|---------------|------------|
| 1686-3  | Laboratory         | Creative Robot Inventions       | DAEWON LEE       | Seoul         | GYD, Korea |
| 2308-5  | ICON Hulk          | ICON WORLD                      | JAEHYEONG YOU    | Incheon       | GYD, Korea |
| 2582-2  | Heat               | RFChina-LEXT                    | Wenbo Li         | Beijing       | BJ, China  |
| 2686-7  | KINGS OF APS       | RAJ ENTERPRISES                 | Savitha DG       | Doddaballapur | KAI, India |
| 2746-3  | ALPHIAN ROBOTS     | Novatech robo pvt ltd           | Ramesh lokesh    | Banegalor     | India      |
| 2765-1  | Fire Fox           | Chinmaya Vidhyalaya             | Bhagya Shree     | Coimbatore    | KAI, India |
| 2768-12 | Robo Legends       | Trivandrum                      | Rinku George     | Coimbatore    | KAI, India |
| 2782-2  | Robostangs         | Advantage Academy               | Gavin Coleman    | Plant City    | FL, USA    |
| 2833-3  | DANGER-PUGS        | Divertrobots                    | Marcy Marrero    | Atlacomulco   | MEXICO     |
| 2842-1  | Team Super Thunder | RFChina-Shenyang Lego Education | YANG CHEN        | Shenyang      | BJ China   |
| 2899-2  | MACHINE ROBOTS     | roboticminds                    | PATRICIA SERRANO | Quito         | Ecuador    |

### Jr. BottleSumo Group 2 (12)

|         |                                   |                                  |                                |                |                     |
|---------|-----------------------------------|----------------------------------|--------------------------------|----------------|---------------------|
| 1686-4  | Seoul Dynamics                    | Creative Robot Inventions        | DAEWON LEE                     | Seoul          | GYD, Korea          |
| 1966-6  | The Admirals                      | Trophy Computers & Robotics      | Pieter Pretorius               | Vanderbijlpark | SA-GA, South Africa |
| 2308-6  | ICON Timon And Pumbaa             | ICON WORLD                       | JAEHYEONG YOU                  | Incheon        | GYD, Korea          |
| 2583-1  | Shanghai Team Three               | RFChina-China Shanghai Team      | Weiqing He                     | Shanghai       | SHG, China          |
| 2735-8  | Robo Hunters                      | TIX Robotics                     | TIX Robotics                   | Hyderabad      | TGI, India          |
| 2746-11 | Alpha Indian Super Robot Fighters | Novatech robo pvt ltd            | Ramesh lokesh                  | Banegalor      | India               |
| 2766-4  | REAL STEEL                        | KENDRIYA VIDYALAYA               | Nikhil Sebastian               | Coimbatore     | KAI, India          |
| 2768-22 | Legendary Warriors                | Trivandrum                       | Rinku George                   | Coimbatore     | KAI, India          |
| 2788-3  | Robo Kings                        | Rani Public School               | Nabhan .                       | Vadagara       | KLI, India          |
| 2838-1  | ZY Team                           | RFChina-Jilin Lego Education     | Hongliang Zhang                | Jilin          | BJ, China           |
| 2872-1  | EC                                | Evangel College (Primary School) | Mei Sze Meicy Ng               | Hong Kong      | Hong Kong           |
| 2900-1  | MET                               | ETRONIC                          | Angelica Janet Gonzalez Chavin | Pachuca        | Mexico              |

The objective of BottleSumo is to **EITHER** be the first robot to find and *intentionally* push a two-liter bottle (filled with 1 liter of water) off the table and survive on the table at least 3 seconds **OR** be the last robot remaining on the table at least 3 seconds. The bottle will be placed at an unknown location that is the same distance away from the two robots.

### Jr. BottleSumo Group 3 (12)

|        |                       |   |                        |                |                     |
|--------|-----------------------|---|------------------------|----------------|---------------------|
| 1777-2 | The Demolishers       | Embedded Logic LLC                      | Jason Mastropietro     | Clearwater     | FL, USA             |
| 1966-7 | Insele Solutions      | Trophy Computers & Robotics             | Pieter Pretorius       | Vanderbijlpark | SA-GA, South Africa |
| 2579-1 | HEB Lego              | RFChina-VSLE                            | Xiaoxing Nie           | Haerbin        | BJ, China           |
| 2590-3 | LegoTown Warrior Team | RFChina-LEGOTOWN                        | Jian Zhang             | Beijing        | BJ, China           |
| 2735-9 | Robo Dragons          | TIX Robotics                            | TIX Robotics           | Hyderabad      | TGI, India          |
| 2747-1 | Eagle Eye             | Oakridge International School Newton Ca | Ashish Mishra          | Hyderabad      | TGI, India          |
| 2768-1 | The Tech Team         | Trivandrum                              | Rinku George           | Coimbatore     | KAI, India          |
| 2770-3 | Mastero Robots        | Bharatiya Vidhya Bhavan                 | THOMAS NOEL            | Calicut        | KAI, India          |
| 2796-4 | GC-Sumo               | Colegio Gimnasio Campestre              | Camilo Villalba        | Bogota         | CO-DC, South Africa |
| 2840-1 | Hope of the star 1    | RFChina-lanzhou Lego Education          | HONGBO XIE             | Lanzhou        | BJ, China           |
| 2881-1 | Logos Dream Catcher   | HKCCCU Logos Academy                    | JIN LONG<br>JEROME TAM | Hong Kong      | Hong Kong           |
| 2691-3 | YMD destroyers        | Novatech Robo Pvt.Ltd                   | Abdul Razak M          | Bangalore      | KAI, India          |

### Jr. BottleSumo Group 4 (12)

|        |                    |                                |                          |            |            |
|--------|--------------------|--------------------------------|--------------------------|------------|------------|
| 1822-4 | Vibots             | McLane Middle School           | Michael Wilson           | Brandon    | FL, USA    |
| 1850-2 | Pocket Tema        | R&G Robot Center               | Ji Seon Cheon            | Seoul      | GYD, Korea |
| 2243-2 | LMS Robotics       | Liberty Middle School          | Steven Roberts           | Ocala      | FL, USA    |
| 2580-1 | HWSuper Team 1     | RFChina-BJFLES                 | Cuirong Liu              | Beijing    | BJ, China  |
| 2603-1 | MSCPS              | Munsang College Primary School | WONG SIU YUEN            | Hong Kong  | Hong Kong  |
| 2745-1 | Block Buster       | Vybhava Robotics               | Shailaja Gadagoju        | Hyderabad  | TGI, India |
| 2761-1 | Sumo Makers        | CHINMAYA VIDYALAYA             | KAARTHICK BABU<br>N.G.B. | Calicut    | KAI, India |
| 2768-6 | Never Giveup       | Trivandrum                     | Rinku George             | Coimbatore | KAI, India |
| 2770-8 | NIXEL BOYS         | Bharatiya Vidhya Bhavan        | THOMAS NOEL              | Calicut    | KAI, India |
| 2822-1 | SSR                | Wuxi Golden key                | JUNYI WU                 | Wuxi       | BJ, China  |
| 2840-2 | Hope of the star 2 | RFChina-lanzhou Lego Education | HONGBO XIE               | Lanzhou    | BJ, China  |
| 2899-1 | Rebots             | roboticminds                   | PATRICIA<br>SERRANO      | Quito      | Ecuador    |

How to start the game (the way to start the robot moving) is an **unknown task** that is unveiled 30 minutes prior to impounding robots.

### Sr. BottleSumo Group 1 (13)

|         |                              |  |                          |                     |            |
|---------|------------------------------|--|--------------------------|---------------------|------------|
| 1687-4  | CRA S211                     | K-USROBOT                                  | il chang Jung            | Ulsan City          | GND, Korea |
| 1899-6  | Lego Techs -<br>Sumo Wrestle | St Pete Beach Rec Center                   | Alan Oates               | St Pete Beach<br>Fl | FL, USA    |
| 2202-2  | DRHS Robotics                | Digby Regional High School                 | Tim Mollins              | Digby               | NS, Canada |
| 2473-1  | DUO ROVERS                   | Hyderabad                                  | Ravikumar<br>Devalapally | Hyderabad           | TGI, India |
| 2559-4  | Unique                       | R&G Robot                                  | Jong Chae Chung          | Seoul               | GYD, Korea |
| 2604-1  | The Hoonicorn                | Po Leung Kuk Lo Kit Sing<br>(1983) College | TAM SIU SUN              | Hong Kong           | Hong Kong  |
| 2735-1  | MaHa                         | TIX Robotics                               | TIX Robotics             | Hyderabad           | TGI, India |
| 2766-1  | BVM Global-1                 | KENDRIYA VIDYALAYA                         | Nikhil Sebastian         | Coimbatore          | KAI, Inida |
| 2770-19 | Robo Warriors                | Bharatiya Vidhya Bhavan                    | THOMAS NOEL              | Calicut             | KAI, India |
| 2787-4  | Chitty                       | JDT Islam Group of Institutions            | Abdul Razak M            | Calicut             | KLI, India |
| 2842-4  | Stubborn Boy                 | RFChina-Shenyang Lego<br>Education         | YANG CHEN                | Shenyang            | BJ, China  |
| 2876-1  | PAKKAU TEAM                  | PAK KAU COLLEGE                            | LAI KUEN LI              | Hong Kong           | Hong Kong  |
| 2895-2  | Sha_bots                     | Divertrobots                               | Rodrigo<br>Rodriguez     | Toluca              | MEXICO     |

### Sr. BottleSumo Group 2 (12)

|         |                           |                                     |                   |                  |            |
|---------|---------------------------|-------------------------------------|-------------------|------------------|------------|
| 1700-2  | Courageous                | Homeschool Robotics                 | Jackie Ryan       | Sterling Heights | MI, USA    |
| 2170-7  | King's-Edgehill<br>School | King's-Edgehill School              | DJ DeCoste        | Windsor          | ON, Canada |
| 2383-5  | Robats                    | Horton High School                  | Neil Burgess      | Wolfville        | NS, Canada |
| 2559-3  | It's High Noon            | R&G Robot                           | Jong Chae Chung   | Seoul            | GYD, Korea |
| 2559-5  | YNWA                      | R&G Robot                           | Jong Chae Chung   | Seoul            | GYD, Korea |
| 2690-2  | ROBO BOOSTERS             | Raj enterprises                     | KAVYA D S         | Doddaballapur    | KAI, Inida |
| 2735-10 | Robo Samurai              | TIX Robotics                        | TIX Robotics      | Hyderabad        | TGI, India |
| 2770-17 | Nexus Robo                | Bharatiya Vidhya Bhavan             | THOMAS NOEL       | Calicut          | KAI, India |
| 2787-3  | 3 Kings                   | JDT Islam Group of<br>Institutions  | Abdul Razak M     | Calicut          | KLI, India |
| 2837-2  | Coyote                    | RFChina-Huhehaote Lego<br>Education | TIEQING HAN       | Huhehaote        | BJ, China  |
| 2865-1  | HK Cyclone                | Tsung Tsin College                  | CHEUK HEI NG      | Hong Kong        | Hong Kong  |
| 2880-1  | PCMS-1                    | Pui Ching Middle School             | WAI TUNG<br>CHUNG | Hong Kong        | Hong Kong  |

### LTU Scholarship Opportunity for all Robofest Participants:

We are very pleased to announce a new scholarship opportunity for all Robofest team members who attend Lawrence Technological University. Submit your application, along with a 400-word essay regarding your Robofest experience, your career goals, and a letter of recommendation from one of your Robofest adult coaches or mentors for a chance to earn a \$3,000 renewable scholarship. Deadline date: April 1st. The application can be found on the LTU.edu website.



# Opening Ceremonies

Saturday, June 3, 2017, 9:00am ~ 9:25am

Multipurpose Underneath Area

Emcee: Rose Mack

- Flag presentation (Canada, China, Colombia, Ecuador, Egypt, Ghana, Hong Kong, India, Korea, Mexico, South Africa, and USA)
- National Anthem: Victoria Jean
- Welcome Opening Remarks by Al Johnson, Mayor of St. Pete Beach
- Opening Remarks by Dr. Sibrina Collins, Executive Director of Marburger STEM Center, Lawrence Technological University
- Introduction of Game, Exhibition, GRAF RoboArts, and Vision Centric Challenge teams
- Introduction of Judges and proctors
- Explanation of key rules and announcements

## Award Ceremonies 1

Saturday, June 3, 2017, 12:10pm ~ 12:45pm

Multipurpose Underneath Area

Emcee: Rose Mack

- Awards for (International & USA) Video qualifier winners
- Robot Drawing Contest: Award of medals to all contestants and trophies to winners
- RoboParade: Award of medals to all contestants and trophies to winners
- WISER: Award of best presentation trophies to winners
- Surprise Challenge for RoboHit Game teams: Award of trophies to winners
- UMC: Award of medals to all contestants and trophies to winners
- BottleSumo: Award of medals to all contestants and trophies to winners
- Spirit of Robofest Team Photo Award

## Closing & Award Ceremonies 2

Saturday, June 3, 2017, 3:30pm ~ 4:15pm

Multipurpose Underneath Area

Emcee: Rose Mack

- Raffle for PCA voters. (Voters must present to win)
- Recognition of Coaches and Team Members: Coaches will award individual trophies to students.
- Group photo of all students and coaches (all the categories)
- VIP seating: 5 year coach, Site Hosts, and Venue Sponsors
- Announcement of 2017 World Robofest City
- Closing Remarks by Al Johnson, Mayor of St. Pete Beach
- Closing Remarks by Dr. Sibrina Collins, Executive Director of Marburger STEM Center, Lawrence Technological University
  - 5 year anniversary coach award (Jason Mastropietro)
  - Award of Appreciation: Qualifying Site Hosts, Sponsors, and World Championship Hosts
  - Recognition of Judges, Volunteers, and Staff
- Presentation of trophies to winning teams: Each Chairperson will announce trophy winners



# **GAME** *RoboHit*

Saturday, June 3, 2017, 8:00am ~ 3:10pm  
Gymnasium

(45 Jr and 24 Sr Game teams)

|                                     |   |
|-------------------------------------|---|
| <b>8:00 am</b>                      | Gym doors open; Teams may setup team tables. Adults must leave immediately after delivering robots, laptops, etc. Teams must self-check robot size, etc. Team-ID & Front side label should be on the robot. Both official & practice fields are open for practice.  |
| <b>9:00 am ~ 9:30am</b>             | Opening Ceremonies in the Underneath area. Teams are not allowed to stay in the gym at this time. Teams will be introduced during the opening ceremonies.   |
| <b>9:30 ~ 9:35am</b>                | <b>Unveil Unknown Tasks &amp; Factors</b> for RoboHit Game Round 1, by Dr. Cartwright, RoboHit Game Chairperson   |
| <b>9:35 ~ 10:05am</b><br>(30 min)   | Game teams work on unknown tasks & factors. Students must remain in pit area.   |
| <b>10:05 ~ 10:15am</b>              | <b>Robot Collection (Impound area) – no testing allowed</b>   |
| <b>10:20 ~ 11:43am</b><br>(Round 1) | Smallest team number will compete first.<br>5 teams (3 Jr. and 2 Sr. teams) will be timed and judged at the same time. Each run includes: <ul style="list-style-type: none"> <li>• Move-in (2 min), Play (2 min), and</li> <li>• Move-out (1.5 min)</li> </ul> There will be max 15 runs for a time of 5.5 min x 15 = 83 minutes. |
| <b>11:43 ~ 12:50pm</b>              | <b>Lunch Break</b> <ul style="list-style-type: none"> <li>• <i>Robots remain on impound tables; Scores to be projected</i></li> <li>• <i>Award Ceremonies 1 (12:10pm ~ 12:45pm) will be held in the Underneath lunch area</i></li> </ul>  |
| <b>12:50 ~ 12:55pm</b>              | <b>Unveil Unknown Tasks &amp; Factors</b> for RoboHit Game Round 2, Chief Game Judge  |
| <b>12:55 ~ 1:25pm</b><br>(30 min)   | Game teams work on unknown factors  |
| <b>1:25 ~ 1:35pm</b>                | <b>Robot Collection (Impound area)</b>  |
| <b>1:40 ~ 3:03pm</b><br>(Round 2)   | Round 2 Game runs begin in the <b>same</b> order, smallest team ID first.<br>(5.5min x 15 runs = 83 min)<br><i>Robots remain on impound tables.</i>   |
| <b>3:10pm</b>                       | <i>Scores to be projected. Robots may be picked up at this time.</i><br>Go the Underneath area for Closing & Award Ceremonies 2   |

**RoboHit Game Synopsis:** A ball-stand is located at the center of a white square (Junior) or rectangle (Senior) shaped baseball field with a fence. A robot is to locate the ball-stand and hit the ping-pong ball resting on the top of it using a standard pencil as a bat. Points are earned depending on where the ball is hit. A home-run will be scored if the ball flies over the fence or hits either pole. Additional points are earned if the robot visits bases and returns back to Home-base, stops, and rests. Points are also earned if one or both of the trash objects are removed completely from the field.

## 45 Jr. Game Teams

| TeamID  | Team Name                   | Organization                    | Coach             | Team City      | State               |
|---------|-----------------------------|---------------------------------|-------------------|----------------|---------------------|
| 336-2   | Robotics                    | Welsh Hills School              | Karen Lepper      | Granville      | OH, USA             |
| 336-4   | I Robot                     | Welsh Hills School              | Karen Lepper      | Granville      | OH, USA             |
| 1687-1  | CRA J3216                   | K-USROBOT                       | il chang Jung     | Ulsan City     | GND, Korea          |
| 1687-2  | CRA J215                    | K-USROBOT                       | il chang Jung     | Ulsan City     | GND, Korea          |
| 1752-2  | Red Wampus                  | Westlake Christian School       | Paul Weaver       | Palm Harbor    | FL, USA             |
| 1850-1  | Pocket Tema                 | R&G Robot Center                | Ji Seon Cheon     | Seoul          | Korea               |
| 1899-5  | Lego Techs: Girlpower       | St Pete Beach Rec Center        | Alan Oates        | St Pete Beach  | FL, USA             |
| 1966-2  | Insele Solutions            | Trophy Computers & Robotics     | Pieter Pretorius  | Vanderbijlpark | SA-GA, South Africa |
| 1966-3  | The Admirals                | Trophy Computers & Robotics     | Pieter Pretorius  | Vanderbijlpark | SA-GA, South Africa |
| 2109-17 | RoboTeks                    | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2109-18 | Droids                      | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2109-19 | Basebots                    | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2109-20 | MavisMinez                  | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2109-29 | Radio Active                | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2109-32 | 3Jokers                     | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2109-33 | RP hitters                  | LEGO LEGION                     | Srinivas Bommidi  | Novi           | MI, USA             |
| 2178-1  | Robonators                  | Achieve Charter Academy         | Rebecca Wolfe     | Canton         | MI, USA             |
| 2209-3  | Curiosity                   | ROBO Desi Group                 | Hiten Shah        | Canton         | MI, USA             |
| 2243-1  | Probably Second Place       | Liberty Middle School           | Steven Roberts    | Ocala          | FL, USA             |
| 2308-1  | ICON Batter                 | ICON WORLD                      | JAEHYEONG YOU     | Incheon        | GYD, Korea          |
| 2401-1  | Ninja Kitties               | Yama Learning Center            | Prasuna Muddasani | Naperville     | IL, USA             |
| 2401-2  | Girlbot sisters             | Yama Learning Center            | Prasuna Muddasani | Naperville     | IL, USA             |
| 2401-3  | Boybots                     | Yama Learning Center            | Prasuna Muddasani | Naperville     | IL, USA             |
| 2511-1  | 7th Column                  | Bethany Christian School        | Jonathon Reach    | Troy           | MI, USA             |
| 2580-2  | HWSuper Team 2              | RFChina-BJFLES                  | Cuirong Liu       | Beijing        | BJ, China           |
| 2588-2  | CC LEGO TEAM TWO            | RFChina-CCLEGO                  | Xiaolong Piao     | Beijing        | BJ, China           |
| 2588-3  | CC LEGO TEAM FOUR           | RFChina-CCLEGO                  | Xiaolong Piao     | Beijing        | BJ, China           |
| 2592-1  | The A-Team                  | Master's Academy of Fine Arts   | Terrie Fontenot   | Brazoria       | TX, USA             |
| 2603-4  | MSCPS3                      | Munsang College Primary School  | WONG SIU YUEN     | Hong Kong      | Hong Kong           |
| 2603-5  | MSCPS4                      | Munsang College Primary School  | WONG SIU YUEN     | Hong Kong      | Hong Kong           |
| 2682-2  | Bibliobots                  | Bibliobots                      | Karie Doughty     | Clearwater     | FL, USA             |
| 2684-1  | Robo Stunners               | Aarabhi Consulting              | Ramgopal Cillanki | Bangalore      | KAI, India          |
| 2705-4  | Simplicity                  | SMART Labs                      | Erik Rosvold      | Rochester      | MI, USA             |
| 2737-1  | Jammin' Awesome Blockies    | JEKS                            | Steven Sinclair   | Aurora         | IL, USA             |
| 2745-2  | V Win Techies               | Vybhava Robotics                | Shailaja Gadagoju | Hyderabad      | TGI, India          |
| 2748-2  | Peaches Bots                | Pearl City Highlands Elementary | Kathy Kawabata    | Pearl City     | HI, USA             |
| 2833-1  | DANGER                      | Divertrobots                    | Marcy Marrero     | Atlatomulco    | Mexico              |
| 2836-2  | Cangzhou Huanghe robot team | RFChina-Cangzhou                | RUIMIN LIU        | Cangzhou       | BJ, China           |

|        |                              |                                 |                             |           |           |
|--------|------------------------------|---------------------------------|-----------------------------|-----------|-----------|
| 2839-2 | Dongguan Team 2              | RFChina-Dongguan Team           | YUNPENG DAN                 | Dongguan  | BJ, China |
| 2841-1 | Lanzhou Xigu Lego Team 1     | RFChina-Lanzhou Xigu Lego       | LU ZHANG                    | Lanzhou   | BJ, China |
| 2842-2 | Team Hell Angel              | RFChina-Shenyang Lego Education | YANG CHEN                   | Shenyang  | BJ, China |
| 2842-3 | Team Harry Potter            | RFChina-Shenyang Lego Education | YANG CHEN                   | Shenyang  | BJ, China |
| 2881-2 | May Newton Force Be With You | HKCCCU Logos Academy            | JIN LONG JEROME TAM         | Hong Kong | Hong Kong |
| 2897-1 | AZTEKBOTS                    | Garage Enterprise               | JESUS GIOVANNI RAMOS GASPAR | Morelos   | Mexico    |
| 2898-1 | TECNOBOTICS ALUX             | TECNOBOTICS                     | Laura HERNANDEZ ESTRADA     | Pachuca   | Mexico    |

## 24 Sr. Game Teams

|         |                          |  |                             |                |                     |
|---------|--------------------------|--|-----------------------------|----------------|---------------------|
| 336-1   | Squiddums                | Welsh Hills School                     | Karen Lepper                | Granville      | OH, USA             |
| 887-1   | RoboSmartt               | Bethany Christian School Robotics Club | Mark Brudnak                | Troy           | MI, USA             |
| 1551-15 | NCA Lights               | NCA Lights                             | Fred Brauchler              | Northville     | MI, USA             |
| 1687-3  | CRA S211                 | K-USROBOT                              | il chang Jung               | Ulsan City     | GND, Korea          |
| 1966-4  | Revolution               | Trophy Computers & Robotics            | Pieter Pretorius            | Vanderbijlpark | SA-GA, South Africa |
| 2109-10 | Glue                     | LEGO LEGION                            | Srinivas Bommidi            | Novi           | MI, USA             |
| 2109-34 | Anything Works           | LEGO LEGION                            | Srinivas Bommidi            | Novi           | MI, USA             |
| 2170-5  | King's-Edgehill School 5 | King's-Edgehill School                 | DJ DeCoste                  | Windsor        | NS, Canada          |
| 2202-1  | DRHS Robotics Club       | Digby Regional High School             | Tim Mollins                 | Digby          | NS, Canada          |
| 2383-1  | Robats                   | Horton High School                     | Neil Burgess                | Wolfville      | NS, Canada          |
| 2518-9  | UL-T-MATZ                | Dobbs Public School                    | sreenivasulu H              | Coimbatore     | KAI, India          |
| 2559-1  | Unique                   | R&G Robot                              | Jong Chae Chung             | Seoul          | GYD, Korea          |
| 2559-2  | Heros Never Die          | R&G Robot                              | Jong Chae Chung             | Seoul          | GYD, Korea          |
| 2588-4  | CC LEGO TEAM THREE       | RFChina-CCLEGO                         | Xiaolong Piao               | Beijing        | BJ, China           |
| 2606-2  | WWT2                     | Buddhist Wong Wan Tin College          | LEUNG KAI FAN               | Hong Kong      | Hong Kong           |
| 2677-1  | SPARTAINS                | NOVATECH ROBO PVT.LTD                  | PRAVEEN NADAVINKERI         | Bangaluru      | KAI, India          |
| 2762-3  | SENTANAL PRIME           | SARASWATHY VIDHYALAYA                  | Shreedevi Talawar B         | Calicut        | KAI, India          |
| 2766-2  | BVM Global-2             | KENDRIYA VIDYALAYA                     | Nikhil Sebastian            | Coimbatore     | KAI, India          |
| 2767-16 | Swaggers of Destruction  | Trivandrum                             | Jane Christopher            | Coimbatore     | KAI, India          |
| 2767-19 | The Future               | Trivandrum                             | Jane Christopher            | Coimbatore     | KAI, India          |
| 2833-2  | CUATLIBOTS               | Divertrobots                           | Marcy Marrero               | Atlacomulco    | Mexico              |
| 2880-2  | PCMS-7                   | Pui Ching Middle School                | WAI TUNG CHUNG              | Hong Kong      | Hong Kong           |
| 2880-3  | PCMS-6                   | Pui Ching Middle School                | WAI TUNG CHUNG              | Hong Kong      | Hong Kong           |
| 2897-4  | GARAGE CORPORATION       | Garage Enterprise                      | JESUS GIOVANNI RAMOS GASPAR | Morelos        | Mexico              |

# Exhibition & GRAF

Saturday, June 3, 2017, 8:00am ~ 3:10pm  
Boca Ciega Room

(18 Jr and 5 Sr Exhibition teams; 6 Jr and 4 Sr GRAF teams, total 23+10=33 teams)

**Jr. Chairperson: Katie Bis, Sr. Chairperson: Eleanor L. McCoy Carter, GRAF Chairperson: Elmer Santos**

|   |   |  |
|---|---|--|
| <b>8:00 am</b>                                      | Doors open; Teams may setup team Exhibition tables & floors<br><b>PCA Judge registration begins</b>   |  |
| <b>9:00 am ~ 9:30am</b>                             | Opening Ceremonies in the Underneath area. Teams are not allowed to stay in the room at this time. Teams will be introduced during the opening ceremonies.  |  |
| <b>10:50am</b>                                      | <b>PCA Judge registration ends</b>  |  |
|   | Exhibition  | GRAF (Global Robotics Art Festival)  |
| <b>10:00 am ~ 12:00 pm</b><br>(Round 1)<br>2 hours. | Official presentation including robot demo of around <b>15</b> Exhibition teams. <b>Max. 4 minutes for each team are given.</b> Judges will ask questions for max. 2 minutes.<br>Senior division with smallest team number will go first.<br>(8 min x 15 teams = 2 hours) | (11:00 am ) Official presentation including robot demo of 5 GRAF teams. <b>Max. 4 minutes for each team are given.</b> Judges will ask questions for max. 2 minutes.<br>Senior division with smallest team number will go first.<br>(8 min x 5 teams = 40 min) |
|   | <i>Judges, Secret Judges, PCA Judges and spectators will visit team tables any time during this Round 1. Teams must be ready for demos.</i>   |  |
| <b>12:00 ~ 1:10 pm</b>                              | <b>Lunch Break</b> <ul style="list-style-type: none"> <li><i>Award Ceremonies 1 (12:10pm ~ 12:45pm) will be held in the Underneath lunch area</i></li> </ul>  |  |
| <b>1:10 – 3:10pm</b><br>(Round 2)<br>2 hours        | Official presentation including robot demo of the remaining <b>8</b> Exhibition teams. <b>Max. 4 minutes for each team are given.</b> Judges will ask questions for max. 2 minutes.<br>(8 min x 8 teams = 64 min)   | (1:30 pm ) Official presentation including robot demo of 5 <b>remaining</b> GRAF teams. <b>Max. 4 minutes for each team are given.</b> Judges will ask questions for max. 2 minutes.<br>(8 min x 5 teams = 40 min)   |
|   | <i>Judges, Secret Judges, PCA Judges and spectators will visit team tables any time during this Round 2. Teams must be ready for demos.</i>   |  |
| <b>3:10pm</b>                                       | <b>PCA Judging forms are due</b>  |  |

## 18 Jr. Exhibition Teams

| TeamID | Team Name                    | Organization                             | Coach            | City           | State               |
|--------|------------------------------|--|------------------|----------------|---------------------|
| 1420-1 | RoboDocs                     | Highland Middle School                   | Robb Colbrunn    | Hinckley       | OH, USA             |
| 1686-1 | Seoul Dynamics               | Creative Robot Inventions                | DAEWON LEE       | Seoul          | GYD, Korea          |
| 1832-2 | Equalizer                    | Norup International School               | Sarah Cartwright | Berkley        | MI, USA             |
| 1899-3 | Lego Techs:<br>Explore Space | St Pete Beach Rec Center                 | Alan Oates       | St Pete Beach  | FL, USA             |
| 1966-5 | Brainiacs                    | Trophy Computers & Robotics              | Pieter Pretorius | Vanderbijlpark | SA-GA, South Africa |
| 2212-1 | Team<br>S.T.E.A.M.           | Canton Charter Academy                   | Pamela Apap      | Canton         | MI, USA             |
| 2213-1 | TechSisters                  | Canton Charter Academy                   | Ajay Choudhary   | Canton Mi      | MI, USA             |
| 2582-1 | Heat                         | RFChina-LEXT                             | Wenbo Li         | Beijing        | BJ, China           |
| 2588-1 | CC LEGO TEAM<br>ONE          | RFChina-CCLEGO                           | Xiaolong Piao    | Beijing        | BJ, China           |
| 2589-1 | Cyberspace                   | RFChina-SBKJ                             | Chong Xie        | Beijing        | BJ, China           |
| 2601-1 | RIHK Team E                  | Robot Institute of Hong Kong             | YAU KA CHUN      | Hong Kong      | Hong Kong           |
| 2644-5 | Robros                       | Robros                                   | Anand Jayanthi   | Canton         | MI, USA             |
| 2705-1 | The Smart<br>Cookies         | SMART Labs                               | Erik Rosvold     | Rochester      | MI, USA             |
| 2796-2 | GC-C.O.F.E.C                 | Colegio Gimnasio Campestre               | Camilo Villalba  | Bogota         | CO-DC, Colombia     |
| 2796-3 | GC-Trash                     | Colegio Gimnasio Campestre               | Camilo Villalba  | Bogota         | CO-DC, Colombia     |
| 2806-3 | Tapunya                      | John Hopkins Middle School STEM          | Nicole Golden    | St. Petersburg | FL, USA             |
| 2839-1 | Dongguan<br>Team 1           | RFChina-Dongguan Team                    | YUNPENG DAN      | Dongguan       | BJ, China           |
| 2844-1 | Xincunxiaoxue                | RFChina-Xincun Experiment Primary School | YOU LIANG HONG   | Chongqing      | BJ, China           |

## 5 Sr. Exhibition Teams

|        |                |                                       |                  |                |                     |
|--------|----------------|---------------------------------------|------------------|----------------|---------------------|
| 1686-2 | Flex           | Creative Robot Inventions             | DAEWON LEE       | Seoul          | GYD, Korea          |
| 1966-1 | JomoSoco       | Trophy Computers & Robotics           | Pieter Pretorius | Vanderbijlpark | SA-GA, South Africa |
| 2796-1 | GC-AirBot      | Colegio Gimnasio Campestre            | Camilo Villalba  | Bogota         | CO-DC, Colombia     |
| 2873-1 | DACA           | ROTEC HK LIMITED                      | SU JUNG JUNG     | Hong Kong      | Hong Kong           |
| 2874-1 | Heung To<br>04 | Heung To Middle School (Tin Shui Wai) | FU YUEN CHUNG    | Hong Kong      | Hong Kong           |

## 6 Jr. GRAF RoboArts Teams

|        |                          |                             |                   |            |            |
|--------|--------------------------|-----------------------------|-------------------|------------|------------|
| 421-2  | MS002                    | Dong-Jak Center KOREA       | KYUNGSEOL LEE     | Seoul      | Korea      |
| 1686-6 | Laboratory               | Creative Robot Inventions   | DAEWON LEE        | Seoul      | Korea      |
| 2401-6 | Girl Power               | Yama Learning Center        | Prasuna Muddasani | Naperville | IL, USA    |
| 2573-1 | Helping Education        | RFChina-ZXJY                | Youjun Chen       | Beijing    | BJ, China  |
| 2583-3 | Shanghai Team One        | RFChina-China Shanghai Team | Weiqing He        | Shanghai   | SHG, China |
| 2737-3 | Jammin' Awesome Blockies | JEKs                        | Steven Sinclair   | Aurora     | IL, USA    |

## 4 Sr. GRAF RoboArts Teams

|        |               |   |                     |           |           |
|--------|---------------|---|---------------------|-----------|-----------|
| 2559-6 | Nerf This     | R&G Robot                                 | Jong Chae Chung     | Seoul     | Korea     |
| 2878-2 | TNK(HK)No.1   | PLK Tong Nai Kan Junior Secondary College | CHUN HIN KWOK       | Hong Kong | Hong Kong |
| 2879-2 | TNK(HK)No.2   | PLK Tong Nai Kan Junior Secondary College | YIU MAN LI          | Hong Kong | Hong Kong |
| 2881-3 | STEAM Powered | HKCCCU Logos Academy                      | JIN LONG JEROME TAM | Hong Kong | Hong Kong |

## *Wanted: PCA (People's Choice Awards) Judges*

Registered Robofest spectators will decide People's Choice Awards (PCA) for RoboParade, Exhibition, and GRAF/RoboArts categories. PCA Judges may win raffle prizes such as Google Homes. Drawing will be held on Sat, June 3 around 3:40pm. A Judge should be 10 and up. Drawing will be held on Sat. June 3 around 3:40pm, in the Underneath area. You must be present to win the following raffle prizes.

### ROBOFEST PCA Voter Raffle Prizes



Octopus Kite



16" Robofest Beach Ball



Official Robofest T-shirts

Two Google Homes



Water Gun Toy



Robofest Nail Clippers

Robofest First Aid Kit







## Vision Centric Challenge: Traversing a binary tree

Saturday, June 3, 2017, 8:00am ~ 3:10pm  
Raymond Room

|   |   |   |
|---|---|---|
| <b>8:00 am</b>                          | Doors open; Practice field is setup. Teams may begin testing.   |   |
| <b>9:00 am ~ 9:30am</b>                 | Opening Ceremonies in the Underneath area. Teams are not allowed to stay in the room at this time. Teams will be introduced during the opening ceremonies.  |   |
|   | College (4 teams)   | High-school - Senior (8 teams)                          |
| <b>9:30am</b>                           | Sample course 1 is unveiled   | Sample course 1 is unveiled                             |
| <b>9:30am ~ 10:00am</b>                 | 30 min worktime before impounding   |   |
| <b>10:10am</b>                          | End of impounding   |   |
| <b>10:10 am ~ 10:50 am</b><br>(Round 1) | Each robot has 2 minutes.<br>(4min x 4 teams = 16 minutes)  | Each robot has 2 minutes.<br>(4 min x 8 teams = 32 min) |
| <b>10:50am</b>                          | Sample course 2 is unveiled   | Sample course 2 is unveiled                             |
| <b>10:50am ~ 11:20am</b>                | 30 min worktime before impounding   |   |
| <b>11:30am</b>                          | End of impounding   |   |
| <b>11:30am ~ 12:10 pm</b><br>(Round 2)  | Each robot has 2 minutes.<br>(4min x 4 teams = 16 minutes)  | Each robot has 2 minutes.<br>(4 min x 8 teams = 32 min) |
| <b>12:10 ~ 1:10 pm</b>                  | <b>Lunch Break</b> <ul style="list-style-type: none"> <li><i>Award Ceremonies 1 (12:10pm ~ 12:45pm) for Video Qualifier, Drawing, RoboParade, WISER, RoboHit Surprise, UMC, BottleSumo, and Team Photo will be held in the Underneath lunch area</i></li> </ul> |   |
| <b>1:10pm</b>                           | Sample course 3 is unveiled   | Sample course 3 is unveiled                             |
| <b>1:10pm ~ 1:40pm</b>                  | 30 min worktime before impounding   |   |
| <b>1:50pm</b>                           | End of impounding   |   |
| <b>1:50pm ~ 2:30 pm</b><br>(Round 3)    | Each robot has 2 minutes.<br>(4min x 4 = 16 minutes)  | Each robot has 2 minutes.<br>(4 min x 8 teams = 32 min) |

*Let it see.* In order to promote research & development on computer vision and autonomous mobile robotics, we challenge college students (undergraduate and graduate students), as well as talented high school students with the Vision Robot Competitions during Robofest!

## College Vcc Teams

| TeamID | TeamName      | OrgName                    | Coach First_Last | TeamCity   | OrgState   |
|--------|---------------|----------------------------|------------------|------------|------------|
| 234-1  | LY            | LTU                        | CJ Chung         | Southfield | MI, USA    |
| 1259-1 | RoboCruisers  | RoboCruisers               | Wei Liu          | Canton     | MI, USA    |
| 2308-2 | ICON Ironhide | ICON WORLD                 | JAEHYEONG YOU    | Incheon    | GYD, Korea |
| 2595-1 | Linker        | Hanyang University - HYMEC | JEAKWEON HAN     | Ansan      | GYD, Korea |

## Sr. Vcc Teams

|        |              |                                       |                   |           |            |
|--------|--------------|---------------------------------------|-------------------|-----------|------------|
| 421-1  | MS001        | Dong-Jak Center KOREA                 | KYUNGSEOL LEE     | Seoul     | Korea      |
| 2308-3 | ICON Wall-E  | ICON WORLD                            | JAEHYEONG YOU     | Incheon   | GYD, Korea |
| 2308-4 | Icon Eve     | ICON WORLD                            | JAEHYEONG YOU     | Incheon   | GYD, Korea |
| 2578-1 | LNSSY        | RFChina-Liaoning Shiyuan High School  | Bing Wei          | Shenyang  | BJ, China  |
| 2630-2 | RoboSTEAMers | RoboSTEAMers                          | Wei Liu           | Canton    | MI, USA    |
| 2864-1 | RIHK Team A  | Robot Institute of Hong Kong          | TING KWOK CHAN    | Hong Kong | Hong Kong  |
| 2874-2 | Heung To 09  | Heung To Middle School (Tin Shui Wai) | FU YUEN CHUNG     | Hong Kong | Hong Kong  |
| 2895-1 | T.A.C.O.S.   | Divertrobots                          | Rodrigo Rodriguez | Toluca    | Mexico     |

## Robofest World Championship Chairpersons

|                 | Category        | Chairperson      | Assistant Chairs                                  | # Judges |
|-----------------|-----------------|------------------|---|----------|
| <b>Thursday</b> | Drawing Contest | Scott Howard     | Katie Bis   | 4        |
| <b>Friday</b>   | RoboParade      | Fred Miller      | Chris Parker, Elmer Santos, JoAnne Howard         | 4        |
|                 | WISER           | Sibrina Collins  |   | 0        |
|                 | Surprise Game   | Chris Cartwright | Chris Parker                                      | 2        |
|                 | UMC             | David Carbery    | Elmer Santos                                      | 8        |
|                 | Jr. BottleSumo  | Elmer Santos     | Chris Parker                                      | 8        |
|                 | Sr. BottleSumo  | David Carbery    | Katie Bis   | 4        |
| <b>Saturday</b> | Game            | Chris Cartwright | David Carbery, Nakisha Gray, Sharlene Christensen | 10       |
|                 | Jr. Exhibition  | Katie Bis        | Chris Parker                                      | 5        |
|                 | Sr. Exhibition  | Eleanor McCoy    | Katie Bis   | 5        |
|                 | College Vcc     | Elmer Santos     |   | 1        |
|                 | Sr. Vcc         | Elmer Santos     |   | 1        |
|                 | GRAF            | Katie Bis        | Sibrina Collins                                   | 5        |

## St. Pete Beach Robofest World Championship Organizing Committee

- Emma Alaba, Director & Host Organizer of Robofest in Florida. Computer Learning Center
- Jennifer McMahon, CPRP, Recreation Director, City of St. Pete Beach, Florida

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*A very sincere thank you to all of our Robofest 2017 Sponsors featured above and especially City of St. Pete Beach, Emma Alaba and Jennifer McMahon. Robofest also thanks all of our Coaches, Parents, Judges, Qualifying Site Host Organizers, Volunteers, and Students. We could not do Robofest without the support of each of you.*

**Lawrence  
Tech<sup>®</sup>  
Computer Science**

*Thanks for being an important part of Robofest 2017!*

*See you in Michigan in 2018.*

World Robofest 2017 Schedule at a glance *(tentative, updated May 27)*

| DATE              | TIME             | Gymnasium   | Underneath  | Raymond room   | Boca Ciega room                                     |
|-------------------|------------------|---|---|--|---|
| Thursday - June 1 | 8:30am ~         | Setup begins  | Setup begins  |  |   |
|                   | 10am - 5pm       | Game and BottleSumo practice area open.                                   | Open to participants (teams can practice)   | Drawing contest setup & Judge meeting<br><b>(1:30~4pm) Robot Drawing Contest</b> | (1pm ~ 4pm) RoboParade setup & Judges meeting       |
|                   | 5:30pm ~         | Welcome Get Together @ Upham Beach. No RSVP needed. Concessions available |   |  |   |
| Friday - June 2   | 8:30am - 11:30am | Game, BottleSumo Practice areas are open                                  | Teams can practice  | <b>WISER 1</b>   | <b>RoboParade</b>                                   |
|                   | 11:30am-12:30pm  |   | Polytech U. demo. Lunch for WISER*  | UMC Setup & Judges meeting   |   |
|                   | 12:30 - 4:00pm   | <b>(1pm~ ) Surprise Challenge for Game Teams(*2)</b>                      | Teams can practice  | <b>WISER 2</b>   | JR. & SR. UMC (Unknown Mission Challenge)           |
|                   | 4:00 ~ 4:30pm    | BottleSumo Setup & Judge Training   |   |  |   |
|                   | 4:30-5:00pm      |   |   |  |   |
|                   | 5:00-8:30pm      | <b>Jr &amp; Sr BottleSumo</b>   | Pizza dinner (*3)   | Vcc setup, Judge training & team practice  | Exhibition & GRAF teams begin setup; Judges meeting |
|                   | 8:30-9pm         |   | (7pm ~ ) Game Judge training  |  |   |
|                   | 8:30-9pm         | Game Setup  |   |  |   |
| Saturday - June 3 | 8:00am           | Game Judge meeting  | Team Check In   | Vcc Judge meeting  | Exhibition & GRAF Judge meeting                     |
|                   | 9:00 - 9:30am    |   | Opening Ceremonies  |  |   |
|                   | 9:30am - 3:45pm  | <b>Game</b>   | Live Stream Viewing & Concession Area<br>(12:10~12:45pm)<br>Award Ceremonies 1 (*4) | <b>Vcc</b>   | <b>Exhibition &amp; GRAF teams</b>                  |
|                   |                  |   | Live Stream Viewing & Concession Area   |  |   |
| 3:50-4:30pm       |                  | Closing & Award Ceremonies 2  |   |  |   |

(\* ) Free only for WISER presenters

(\*2) Optional. Only for official Game teams. Just show up at 12:30pm to participate

(\*3) Free for everyone (teams, volunteers, parents, etc.), sponsored by LTU Robofest

(\*4) Video Qualifier, Drawing, RoboParade, WISER, RoboHit Surprise, UMC, BottleSumo, and Team Photo