



—IT'S TIME TO GO
FULL SPEED AHEAD
— TO THE **FIRST® CHESAPEAKE CHAMPIONSHIPS**
SPONSORED BY NEWPORT NEWS SHIPBUILDING

PUBLIC PROGRAM OF EVENTS

April 8th - April 9th 2022 | Hampton Coliseum

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Welcome to the *FIRST®* Chesapeake Championships Sponsored by Newport News Shipbuilding

Welcome to the 2022 *FIRST®* Chesapeake Championships Sponsored by Newport News Shipbuilding! For the first time in more than two years, we are delighted to have all of you — *students, parents, teachers, sponsors, volunteers, and spectators* — with us for this very special occasion. This event is the largest competition ever held by *FIRST* Chesapeake, with 140 of the best and brightest middle and high school robotics teams competing in [*FIRST® Tech Challenge*](#) and [*FIRST® Robotics Competition*](#) events. We are especially grateful to our event Title Sponsor, Newport News Shipbuilding, for their exceptional efforts to support this event and Hampton Roads' future technology leaders.

Greetings to our *FIRST* Chesapeake teams from Virginia, Maryland, and the District of Columbia and welcome to those who traveled long distances to be here with us! We look forward to seeing how you solved this year's *FIRST* Challenges, [*Rapid React Presented by Boeing*](#) and [*Freight Frenzy Presented by Raytheon Technologies*](#). This week marks the culmination of months of hard work, creative problem solving, and incredible teamwork. Here, on the arena floor, you will test your design, strategy, and fabrication skills. You have learned what it means to be part of a team and you have contributed to its success. In the spirit of *Gracious Professionalism®*, your opponents will become your friends and colleagues — for years to come.

To all of our volunteers, mentors, teachers, and parents: thank you for your extraordinary support to create this outstanding opportunity for our students. Your significant investment of time and energy is appreciated, and you have served as terrific role models. You have positively impacted this next generation of innovators, educators, engineers, and leaders.

To all of our [*sponsors*](#) and partners: you play a critical role through your commitment of funding, volunteers, internships, and leadership. You know the importance of a workforce that is technically astute, innovative, and energized and recognize that *FIRST* participants are the future workforce that keeps our country competitive in today's global economy. The *FIRST* Chesapeake Championships, as well as *FIRST* Chesapeake's year-round STEM-related activities, have been made possible because of your support.

We invite everyone to join us to cheer for these students as they put into play the lessons and skills learned over the past several months. Visit our Technology Row to learn more about *FIRST* programs, participate in fun hands-on activities, enter drawings for free giveaways, and learn more about career opportunities with [Newport News Shipbuilding](#) and other *FIRST* Chesapeake sponsors. And most of all, we hope you will leave this celebration energized and inspired.

On behalf of the leadership of *FIRST* Chesapeake, we wish all participating team members great success, volunteers amazing fun, and spectators super charged excitement. Best of luck to everyone!

Dean C. Roberts,
Board Chair
FIRST Chesapeake

Leighann Scott Boland
Executive Director/ Director of Development
FIRST Chesapeake



Public Event Schedule

[Click here for an updated FRC team match schedule](#)

[Click here for an updated Friday FTC team match schedule-Submarines Division](#)

[Click here for an updated Saturday FTC team match schedule- Carriers Division](#)

Thursday, April 7th, 2022

FIRST Robotics Competition Teams only. No public.

Friday, April 8th, 2022

Public spectators are welcome. Masks are strongly recommended but not required.

8am	Doors open to public
8:30am	Opening ceremonies
9am	Qualification matches
9am	<u>Technology Row</u> Opens – Information, Activities, Giveaways, Limited Edition Championships t-shirts and hoodies for sale, and more!
10am-2pm	Student Ambassador led tours of the event – including tours of team pits and explanation of game challenges. Sign up for free tours at VIP table at Coliseum entrance.
Noon	Lunch
12:30pm	Matches resume for <i>FIRST</i> Tech Challenge
1pm	Matches resume for <i>FIRST</i> Robotics Competition
5:30pm	<i>FIRST</i> Tech Challenge Awards and closing ceremonies

Public Event Schedule Continued

Saturday, April 9th, 2022

Public spectators are welcome. Masks are strongly recommended but not required.

8am	Doors open to public
8:30am	Opening ceremonies
9am	Qualification matches
9am	<i>FIRST</i> LEGO League Expo
9am-3pm	Technology Row – Information, Activities, Giveaways, Limited Edition Championships t-shirts and hoodies for sale, and more!
10am-2pm	Student Ambassador led tours of the event – including tours of team pits and explanation of game challenges. Sign up for free tours at the VIP table at Coliseum entrance.
1:30pm	Lunch
2pm	<i>FIRST</i> Tech Challenge matches resume
2:30pm	<i>FIRST</i> Robotics Competition match playoffs
4pm	<i>FIRST</i> Tech Challenge match playoffs
6pm	Finale and awards ceremonies



FIRST Chesapeake Competition Information

FIRST Robotics Competition

Combining the excitement of sport with the rigors of science and technology. We call *FIRST* Robotics Competition the ultimate Sport for the Mind. High-school student participants call it "the hardest fun you'll ever have." Under strict rules and limited resources, teams of 20 or more students are challenged to raise funds, design a team "brand," hone teamwork skills, and build and program industrial-size robots to play a difficult field game against like-minded competitors. It's as close to real-world engineering as a student can get. Volunteer professional mentors lend their time and talents to guide each team.

For a list of *FIRST* Robotics Competition Championship teams click [here](#).

Follow team rankings [here](#).

FIRST Tech Challenge

It's way more than building robots. *FIRST* Tech Challenge teams (10+ members, age 12-18/ grades 7-12) are challenged to design, build, program, and operate robots to play a floor game in an alliance format. Participants call it "the hardest fun you'll ever have!" Guided by adult Coaches and Mentors, students develop STEM skills and practice engineering principles (like keeping an engineering notebook), while realizing the value of hard work, innovation, and sharing ideas. The robot kit is reusable from year-to-year and can be programmed using a variety of languages. Teams also must raise funds, design, and market their team brand, and do community outreach for which they can win awards. Participants have access to tens of millions of dollars in college scholarships.

For a list of Friday's *FIRST* Tech Challenge Submarine Division Championship teams click [here](#). Follow the team rankings [here](#).

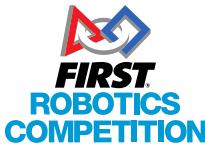
For a list of Saturday's *FIRST* Tech Challenge Carriers Division Championship teams click [here](#). Follow the team rankings [here](#).

**View the Championships
Live Feed** Sponsored by



FRC Twitch Channel: <https://www.twitch.tv/firstchesapeake/>
FTC Twitch Channel: <https://www.twitch.tv/firstchesapeake1/>

FIRST Robotics Competition Game



In **RAPID REACTSM** presented by **Boeing**, two competing alliances are invited to process cargo for transportation. Each alliance is assigned a cargo color (red or blue, based on alliance affiliation) to process by retrieving their assigned cargo and scoring it into the hub. Human players assist the cargo retrieval efforts from within their terminals. In the final moments of each match, alliance robots race to engage with their hangar to prepare for transport!

Each match begins with a 15-second autonomous period, during which time alliance robots operate only on pre-programmed instructions to score points by:

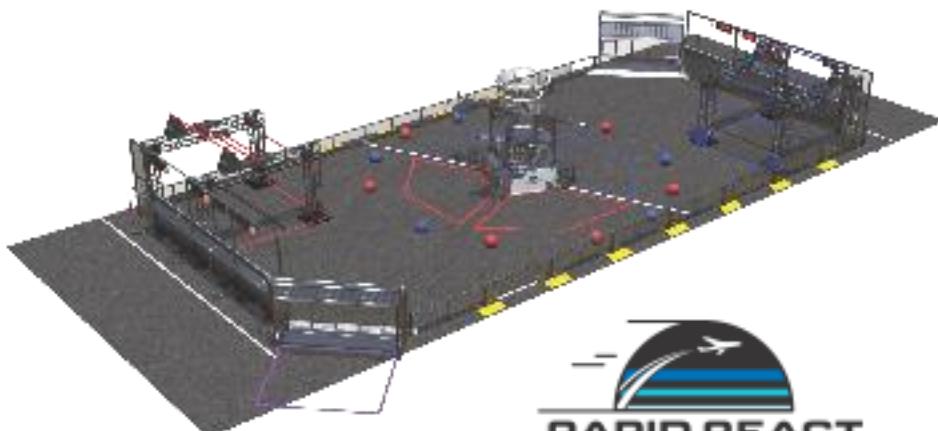
1. taxiing from their tarmac and
2. retrieving and scoring their assigned cargo into the hub.

In the final 2 minutes and 15 seconds of the match, drivers take control of the robots and score points by:

1. continuing to retrieve and score their assigned cargo into the hub and
2. engaging with their hangar.

The alliance with the highest score at the end of the match wins!

Click [here](#) to see a video explanation of the game.



PRESENTED BY



FIRST Tech Challenge Game



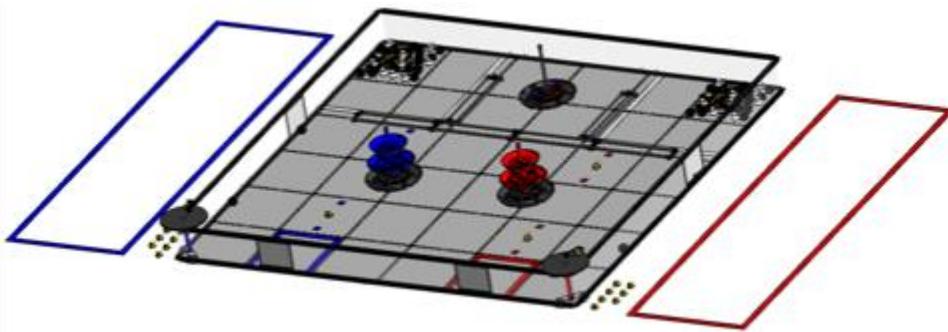
In **FREIGHT FRENZYSM** presented by **Raytheon Technologies**, teams and their robots must navigate a complex transportation system by traversing barriers and racing against time to load and deliver essential items to those who need them most.

The Freight Frenzy challenge features game elements such as freight, shipping hubs, carousels, warehouses, barriers, and ducks!

Each robot starts against the Playing Field wall adjacent to the Alliance Station and must be in possession of Box piece of freight. From there each team will progress through the thirty second autonomous period followed by the two-minute-long driver-controlled period.

The last thirty seconds of the match is the end game period. Each period has different scoring achievements.

Click [here](#) to see a video explanation of the game.



Thank you to our Volunteer Board, committees, and panel members!

***FIRST* Chesapeake Board**

Dean Roberts (Chair) – Market Analysis Executive, Rolls-Royce, North America
Bettina Garcia Welsh (Vice Chair) – CFO, ICF International (retired)
Michael Duncan (Treasurer) – Managing Partner, Donnachaidh Associates, LLC
Lakshmi Meyyappan (Secretary) – Senior Director, Appian Practice Lead, CollabraLink Technologies, Inc.
Chris Bjornson – CIO, Accenture Federal Services
Robert Franceschini – SVP and Deputy CTO, Leidos
James Kresge – CTO, Koalafi
Doug Lawrence – VP, Nuclear Engineering and Plant Support, Dominion Energy
Latitia McCane – Director, The Apprentice School, Newport News Shipbuilding
Scott McKay – CIO and Executive VP, Operations and Quality, Genworth (retired)
Cristie Neller – VP Administrative Services, BHE GT&S
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Brian Snodgrass – VP, IT Service Delivery, Serco NA
Nick Serfass – Executive Director, Richmond Technology Council
Cedric Sims – Senior VP, Booz Allen Hamilton

***FIRST* Robotics Competition**

Team Advisory Committee

Amy Brunner, Team 4541
Nancy Holincheck, Team 5243
Tom Larson, Team 1599
Paul E. Lathrop, Team 7429
Tim Miedzinski, Team 836
Brian Pace, Team 1262
Paul Rodi, Team 6334
Josh Smith, Team 1629
Timothy Stevic, Team 1731
Rose Young, Team 2199
Matt Wilson, facilitator

***FIRST* Tech Challenge**

Team Advisory Committee

Henry Bass, Team 4924
Bryce Davey, Team 8221
Kirk Frankfurth, Team 5233
Dave Hairston, Teams 11215, 4234
Randy Hintz, Team 16537
John Pendleton, Team 14597
Shari Robinson, Team 7039
Erik Wood, facilitator

***FIRST* Chesapeake Equity, Diversity, & Inclusion Panel**

David Albert, Tenetics, LLC
Donna Charles-Koskie, Chesterfield Technical Center
Shella Condino, Oakton High School
Glen Davis, *FIRST* Chesapeake
Aaron Evans, InSource Solutions
Jim Kresge, Koalafi
Robin Simmons, Helios HR Consulting and Talent Acquisition
Anne-Marie Turnage, Virginia State University

FIRST Chesapeake Impact

7,000+

Students grades 7-12 on
FIRST Chesapeake teams

325

Teams participating,
grades 7-12

650+

Mentors/Coaches
involved in events

"The FIRST community promotes an environment of entrepreneurship while providing a platform for students like myself to spark real change in our communities. FIRST has been, by far, the most influential experience of my entire life. I walked in as a shy and unconfident ninth-grader and left as a well-rounded leader in my community, currently pursuing a STEM degree."

— Jessica Auja, FIRST Chesapeake Alumni Ambassador

1,600+

registered alumni in
Virginia, District of
Columbia, and Maryland

1,400+

Volunteers who
donated time to events

"My daughter's initial reaction at a FIRST tournament was that the experience is unlike most sporting events where teams have distinct boundaries and it's all about competition. Gracious Professionalism is a real thing in the FIRST community. It's what cultivates an environment of altruism and mutual respect among participants and keeps my kids wanting to come back to FIRST events year after year."

— Tom Poole, Board Member, FIRST Chesapeake, FIRST Tech Challenge Mentor Team 16022, and Senior Vice President, Capital One

25,000+

event attendees

15+

competitive events
and workshops

40% 60%

YOUNG WOMEN

YOUNG MEN

Percentage of young women/young
men involved with FIRST programs

"The excitement is what engages younger students to become passionate and interested in the field of STEM... Our team might be small in comparison, but we bring the energy of an entire army to our competitions."

— Demond Morris, The Prez, Junkyard Dogs,
FIRST Robotics Competition Team 2106

Thank you to our Championships Judges!



***FIRST* Robotics Competition**

Judge Advisor

Joe Bouchard

Judge Advisor Assistant

Anika Seth – Yale University

Judges

Dana Aucoin – *FIRST* Inspires

Preshus Boone – Newport News Shipbuilding

Jessi Brown – Merck & Co., Inc.

Nathan Connor

Alexander Cormier – AGFM

Skylar Crews

Bill Docalovich – Newport News Shipbuilding

Kevin Hill - Newport News Shipbuilding

Jarrett Joyce – US Navy (Ret.)

Jean-Etienne LaVallee – Betterment Financial

Kimberly Mahan – Maxx Potential

Josh Marciante – University of Maryland, Baltimore County
Kevin Pardus – US Army (Ret.)
Edward Sherlock – Lyon Shipyard
Andrew Tucker – Newport News Shipbuilding
Doug Vaughters
Brian Vazquez
Sylvia Wei – American College of Cardiology
Quentin Willis – United States Air Force
Austin Young

FIRST Tech Challenge

Judge Advisor

Jeff Meyers – Howard County Council

Judge Advisor Assistant

Rose Young

Judges

AJ Johnson
Amber Driesman – TechAction Foundation
Beth Dixon – LufCo
Cashena Mingo – SUPSHIP Newport News
Charles Motley – Institute of Industrial and Systems Engineers
Cynthia Davey – Stanley Black and Decker
Daphny Davila
Dustin Ferris – Best Data Xstream
Elizabeth Vuong – Newport News Shipbuilding
Frederick Monroe – US Army (ret.)
Gordon Burr – Newport News Shipbuilding
Gregory Contreras – US Navy
Jeff Meyers – Howard County Council
Jocelyn Davey
John Behen – Newport News Shipbuilding
John McDonald II
Joy Cho – Qualcomm
Kaitlyn Bustillos – Last Sanctuary Media
Kathy Laukzemis – retired
Kevin Bond – Newport News Shipbuilding
MacKenzie Mortimore – Newport News Shipbuilding
Michael Langlois – US Army ROTC, Hampton University
Michelfrancis Bustillos – Sears Holdings
Nicholas Manzini - US Navy
Paul Averill – US Navy
Ryan Patrick – US Navy
Tahj Richardson – Newport News Shipbuilding

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FOUNDATIONS

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Get Involved!



Become a Sponsor

- Enjoy recognition as a community leader
- Receive hospitality benefits at events
- Reach out to more than 1,600 *FIRST* alumni and young professionals
- Help build tomorrow's technology leaders

Mentor a Team

One of the things that sets *FIRST* programs apart is the strength of its mentors. Technical and non-technical volunteers serve as advisors and role models, showing students how to use STEM to solve real world problems, develop project management skills, promote teamwork, and to learn from failures and celebrate success.

Volunteer at Events

FIRST Chesapeake events are great opportunities for employee involvement and volunteerism.

For more information, visit www.firstchesapeake.org/get-involved or contact *FIRST* Chesapeake at info@firstchesapeake.org.

Donate

FIRST Chesapeake/Virginia *FIRST* is a 20+ year-old 501(c)(3) organization which relies upon the generosity of individuals and donations to run its programs and events. Each year, we must raise more than \$800,000 to support 300+ middle and high school robotics teams and over 20 competitions and workshops. All donations made through www.firstchesapeake.org remain in Maryland, the District of Columbia, and Virginia and will directly benefit *FIRST* Chesapeake teams and outreach.



firstchesapeake.org ■ firstinspires.org

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FOR INSPIRATION & RECOGNITION OF SCIENCE & TECHNOLOGY

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