

# FOR FUTURE VOLUNTEERS

IF YOU ARE INTERESTED TO JOIN OUR TEAM

> AUG 3<>8 2021

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#FSEASTAUG3<>8



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FURTHER DETAILS AT FSEAST.EU #FSEAST #FSEASTAUG3<>8





THE PARTICIPATING TEAMS OF FS EAST 2019

# REGISTER! Login.fseast.eu

# ...AND THE ORGANIZERS OF THE EVENT:



# 2021 **VOLUNTEER INFORMATION** ZALAZONE, HUNGARY

# HELLO,

you will find some information about attending Formula Student East 2021 below. The document is online for one simple reason: if you have questions/comments, we can update and improve it for the future. Please use it confidentially.

## **GET FAMILIAR:**

- The webpage of the event: http://fseast.eu
- The gallery of the 2019 event: https://fseast.eu/gallery-2019
- A summary of 2021's splendid registrations: https://fseast.eu/official-registration-results



# **BASIC FORMULA STUDENT INFO**

### WHAT IS FORMULA STUDENT?

A short and well explained answer can be read on the webpage of BME Formula Racing Team, so it is convenient to link it here: frt.bme.hu/?id=hu/tudasbazis

### WHICH ARE THE HUNGARIAN TEAMS?

- Győr Arrabona Racing Team
- Budapest BME FRT
- Kecskemét KEFO
- University of Miskolc
- Debrecen Gerundium Racing Team

**HOW MANY TEAMS ARE ATTENDING FS EAST IN 2021?** The announced 84 places were taken promptly, with a huge oversubscription: fseast.eu/registration

(You should visit the Facebook pages of the teams - they have great informative sites, which are already filled with a lot of information and data about the racecars they will bring to us.)

### WHICH ARE THE RACES OUTSIDE OF HUNGARY? FS Germany, FS UK, FS Italy, FS Austria, FS Spain, FS Czech, USA several competitions, Japan, Australia, China, India, Brazil, FS Russia, FS Switzerland, FS Andorra

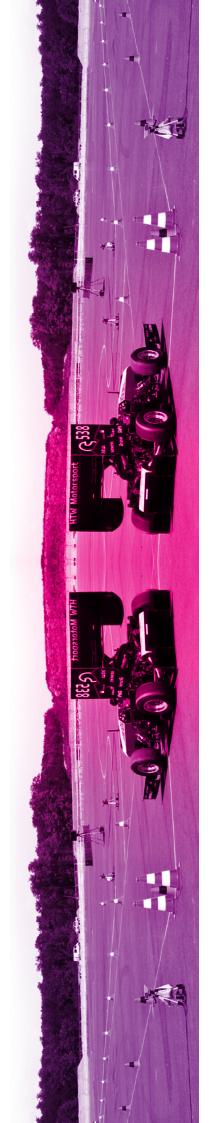
### **HOW DOES A RACE LOOK LIKE?**

FS EAST 2021

- The teams register at the beginning of the year.
- Between April and June the teams submit their mandatory documents, which are a proving, that their racecar is designed and built according to the rules and safety regulations.
- In the summer time the winner is chosen during a 6 day long competition. The three main stages of the event are scrutineering, design judging, racing on the track

### WHERE CAN THE TEAMS FIND THE RULES?

- Every race has its own rules, which contain some additional regulations for the teams. The rule of FS East is updated annually, and it is uploaded to the webpage. (You can also find the rules of the previous years at the same place.)
- The full rulebook itself is more complex. In 2017 there was a major change, the European races developed a brand new rulebook.
   (This gives more space for engineering creativity than the original SAE -Society of Automotive Engineers- rulebook.)
- This rulebook can be found here: formulastudent.de/fileadmin/user\_upload/all/2020/rules/FS-Rules\_2020\_V1.0.pdf







# **ADDITIONAL FS EAST INFO (FAQ)**

### WHERE WILL BE THE RACE LOCATED?

From 2018 the race takes place at an automotive proving ground called ZalaZone, which has huge improvement opportunities: zalazone.hu

# WHAT IS GUARANTEED FOR THE VOLUNTEERS BY THE ORGANIZERS?

Every organizer receives at least 2 FS East T-shirts and towels for the 6 days, but since the tasks define the color of the T-shirts, and some of the organizers have multiple tasks it is possible that somebody will receive multiple colors.

Food and drinks, or a coupon for them is also guaranteed. The catering should be comfortably enough for everyone at the racesite.

### WHERE WILL I SLEEP? CAMPING

The judges will be accommodated in nearby hotels, for the other volunteers we will try to guarantee the most ideal housing. Volunteers can sleep in a huge camping, together with the teams and the organisers, which is really .... Awesome! You can also sleep in a student hostel.

### HOW CAN I BECOME A VOLUNTEER?

The best way to apply is by filling out the questionnaire on the webpage: https://login.fseast.eu/register

If you already have a preferred responsibility, please contact the organizers of the related field of activity mentioned in the table on the next page.

# IN WHICH KEY AREAS ARE YOU LOOKING FOR VOLUNTEERS IN PARTICULAR?

- Track marshall
- Engineering scrutineer
- Electric scrutineer
- Event control assistant Event Control asszisztens
- Ticket center assistant Ticket Center asszisztens
- Event support member Rendezvény támogatás
- Charging tent supervisor

### **HOW GOOD MY ENGLISH SHOULD BE?**

- Track marshall not necessary, some basic useful sentences should be enough
- Engineering scrutineer with basic knowledge, only basic specifications can be checked, intermediate level is recommended
- Electric scrutineer with basic knowledge, only basic specifications can be checked, intermediate level would be useful
- Event control it is mostly about communication, intermediate level is mandatory, being fluent is preferred
- Event support it can be handled without foreign languages, but it is hard to avoid talking to someone in a foreign language during an international event like this:)
- Charging tent supervisor intermediate level and knowing basic electrical terms is expected
- Judge (Design/Cost/Business) strong intermediate level is expected, since it must be understood, what the teams are explaining about their racecar and specialties

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# HOW CAN I BECOME AN ORGANIZER?

If you are interested in being a	Track marshal	then apply on the webpage, or contact	Gergely Légrádi - gergely.legradi@fseast.eu	who will put you on the	Track marshal's	mailing list. Hurray! :)
	Engineering scrutineer		Péter Lindner - peter.lindner@fseast.eu		Scrutineering + tech	
	Electric scrutineer		Péter Lindner - peter.lindner@fseast.eu		Scrutineering + tech	
	Event control		Enikő Péterfia - eniko.peterfia@fseast.eu		Separate	
	Event support		Timea Nagy - timea.nagy@fseast.eu		Separate	
	Charging tent supervisor		Péter Lindner - peter.lindner@fseast.eu		Scrutineering + tech	
	Judge (Design/Cost/Business)		Benjamin Bruncsics - benjamin.bruncsics@fseast.eu		Scrutineering + tech	

# THIS IS THE WAY.

Or you can try this way too.

# WHAT WILL THE EXACT TASK BE?

# **TRACK MARSHAL**

- In this year, we organise a preparation race called FS Easter in June, where you can learn everything what a Track Marshal needs.
- Visiting the practical training several weeks before the race, where you can sunbath while you learn how to handle "smoking" and "burning" cars, flag signals, proper movement and important safety procedures on a proper racetrack (e.g.: Zalazone, Euroring, Tököl Airfield ... ).
- Arriving to the racetrack on Monday, where we will prepare everything for the race
- Monday evening you can prepare for the upcoming days with your preferred beverage
- First Teams are also arriving on Monday to the Race Track. Tuesday is the easy day, the first teams will start the scrutineering and we continue to build up the track. On Wednesday, Thursday and Friday the scrutineerings will take place and some Driverless Events.. The track marshalls are checking racetrack specific items, which can not be checked by the scrutineers in the boxes. These are mostly the tests which require a running engine, such as brake test, noise test, rain test for electric cars. Well, actually for the lateral G simulation tilt test you do not need a running engine...:) :
- The group leaders will show you everything (all of these should not be new since you already learned it during the theoretical training) on the first days, in order to be and feel confident.
- During Tuesday, Wednesday, and Thursday fever track marshalls are needed, so if you are interested in scrutineering, you can help the scrutineers with the checklists in the team boxes. If you want to do this you need to know the relevant rules even if you are woken up in the middle of the night, but we will discuss this below...
- The rivalry on the racetrack will start on Friday: 8 shape track in the afternoon; On Saturday, there is acceleration and timed qualifications in the afternoon. (Certainly to re-organize the racetrack is the job of racetrack staff.)
- Sunday is top notch for all the teams the 22 km long endurance race, with 4-5 racecars simultaneously on the track.
- Sunday evening you should not miss the award ceremony, where all the organizers are invited to the podium, where we have the opportunity to say thanks to the teams for the fun times spent together. You will have the chance to enjoy some free time on all evenings, but on Sunday night there are no limits. You are not weak, are you?! :).

THERE ARE ALSO SOME STUFF TO DO TO MAKE THE TESTRACK CLEAR AGAIN, SO ON MONDAY, HELPING HANDS ARE WELCOME! (FREE ICE CREAMS ARE PROVIDED ALSO ;))

FS EAST 2021



ARRIVING TO THE RACETRACK ON MONDAY, PREPARE EVERYTHING FOR THE RACE





THE RIVALRY ON THE RACETRACK WILL START ON FRIDAY: 8 SHAPE TRACK AKA SKID PAD YOU CAN PREPARE FOR THE UPCOMING DAYS WITH YOUR PREFERRED BEVERAGE

TRACK MARSHALLS CHECKING SPECIFIC ITEMS, WHICH CAN NOT BE CHECKED IN THE BOXES









ON SATURDAY, THERE IS ACCELERATION AND TIMED QUALIFICATIONS DURING THE 22KM ENDURANCE EVENT MURPHY IS ALSO WORKING SO YOU HAVE TO BE PREPARED

# **ENGINEERING SCRUTINEER**

- The scrutineering training will also be held at the preparation race, FS Easter, so we are waiting for you!
- If it is possible to decide which parts should be checked by whom, these smaller-bigger parts should be thoroughly studied in the rules.
- Arriving to the racetrack on Monday or Tuesday, where we will prepare everything for the race.
- There will be a need for lots of scrutineers on Wednesday, Thursday and Friday since we are for the teams, and we would like to push them through scrutineering as fast as possible (if they correspond).
- Only leftover and problematic teams are scrutineered on Saturday. In addition, special attention must be payed in the tents to avoid stupid mistakes. The free staff helps out the track marshalls during this time.
- Sunday evening you should not miss the award ceremony, where all the organizers are invited to the podium, and we all have the opportunity to say thanks to the teams for the fun times spent together. You will have the chance to enjoy some free time on all evenings, but on Sunday night there are no limits.

# 

YOU ARE NOT WEAK, ARE YOU?! :)

THERE WILL BE A NEED FOR LOTS OF SCRUTINEERS ON WEDNESDAY, THURSDAY AND FRIDAY SINCE WE ARE FOR THE TEAMS, AND WE WOULD LIKE TO PUSH THEM THROUGH SCRUTINEERING AS FAST AS POSSIBLE IF THEY CORRESPOND

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# **ELECTRIC SCRUTINEER**

- The electric scrutineering training will also be held at the preparation race FS East in June by Péter Lindner, so we are waiting for you!
- If it is possible to decide which parts should be checked by whom, these smaller-bigger parts should be thoroughly studied in the rules.
- Arriving to the racetrack on Monday evening or Tuesday, where we will prepare everything for the race.
- There will be a need for lots of scrutineers on Wednesday, Thursday and Friday since we are for the teams, and we would like to push them through scrutineering as fast as possible (if they correspond).
- Battery check
- An electric person will supervise the rain test
- Only leftover and problematic teams are scrutineered on Saturday. In addition, special attention must be payed in the tents to avoid stupid mistakes. The free staff helps out the track marshalls during this time.
- Consumption measurement is a really serious topic, which will be nicely supervised by Jani Tóth.
- He will ideally need 2-4 helpers, with whom he will constantly check the teams and enforces maximum power limits.
  (There is one more really important electric role the charging tent supervisor. Due to their significance,
- below you will find detailed script about them.)

# SUNDAY EVENING ... YOU KNOW IT



DURING BATTERY CHECK YOU MUST ALWAYS FOCUS ON SAFETY

AN ELECTRIC SCRUTINEER HAS TO SUPERVISE THE RAIN TEST

# **EVENT CONTROL**

- Arriving to the racetrack on Monday or Tuesday, where we will prepare everything for the race.
- You will have to answer questions of the teams at the information desk during all 6 days.
- If you accept this role for some days, it is a great help, but it would work flawlessly if there could be some regular staff.
  Some documents are submitted by the teams here, we also give them devices at the desk, and print the preliminary results. Without event control, the event is dead :)

# **EVENT SUPPORT**

- Arriving to the racetrack on Monday, where we will prepare everything for the race.
- Only a handful of people are needed for this important role, where you can learn a lot.
  - He/she is Mr. Wolf, who can help with everything. We can call this role "the fixer" or "the handyman".
    You need something from the city? He/she will get it.
  - Track marshalls are thirsty? Gets water for everybody.
  - □ Some of the track marshalls have not had the chance to have breakfast? He/she will bring them sandwiches.
  - Somebody can not fulfill his/her role for a certain time? He/she will jump in as a deputy.
  - □ Somebody arrived who should get to know the event? Not a problem for him/her:)
  - □ Printouts are needed for the control tower? He/she helps.
  - □ etc.:) ...work hard, play hard:

# SUNDAY EVENING... TRUTH HAS BEEN SAID!

FS EAST 2021

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# **CHARGING TENT SUPERVISOR**

- Arriving to the racetrack on Tuesday, where we will prepare everything for the race.
- Preferably this person should be electricican. The charging tent is the only place at the event, where the electric racecar teams can charge and repair their batteries. This is the most dangerous component, usually we are talking about 400V systems, but 600V systems are also quite common. Protective gear is mandatory, but this is only one out of the 10-15 things, where special attention shall be paid. This is one of the most important tasks, but requires constant attention, therefore it would be lucky if 6-8 persons could rotate in this position.
- The chosen lucky ones will get a training from Péter Lindner.

SUNDAY EVENING YOU SHOULD NOT MISS THE AWARD CEREMONY... THE REST IS HISTORY.



THE CHOSEN ONES WHO WILL BRING BALANCE TO ALL ELECTRIC CARS WILL GET A TRAINING FROM BÁLINT HANULA

LOGIN.FSEAST.EU

# WHAT IS THE ROLE OF THE JUDGES?

A JUDGE IS EITHER AN EXPERIENCED FORMULA STUDENT ALUMNA/ALUMNUS, OR A PRACTICING PROFESSIONAL, WHO COMES FROM THE HIGHER EDUCATION OR FROM THE INDUSTRY. THIS MEANS, THAT THE PROFESSIONAL IS NOT NECESSARILY AN ENGINEER, BUT A MANAGER, FINANCIAL EXPERT ETC.

The main task of the judges on the event is to listen to the presentation of the teams or to have a discussion with the team members in their chosen discipline and evaluate their performance based on the itineraries given by the rules of the Formula Student and by the FS East. Naturally, the organizers of the FS East will do their best to help to prepare the judges properly to the corresponding events.

### Since the Static Events are divided into three major events,

- the participants can apply to become a judge one of the following roles:
- Engineering Design Event Judge
- Cost and Manufacturing Event Judge
- Business Plan Presentation Event Judge

Note that, in the case of the Engineering Design Event Judges, the topics are split into more roles yet. Detailed description of all the judging duties and functions can be found in the following. You can find more details about judging in the separate Info for Judges document. If you have further questions about being a judge at the FS East 2021, please feel free to contact our Static Events Leader, **Benjamin Bruncsics** benjamin.bruncsics@fseast.eu - or write to the static@fseast.eu e-mail address.

**-SEAST202** 

GO FOR IT





# SEE YOU AT FS EAST 2021, WE WILL BE THERE!

### **CHANGELOG**

Version	Date	Modification	Page
1.0.0	2nd of March 2021	Initial release	-



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