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1.0 Participants Participation in steelChallenge-13 is for individuals who are either students or in industry.

1.1 Student The student category is for individuals who are enrolled in studies at an accredited academic institution at the time of the registration period, up to the time of the Regional Championship.
   • Enrolment may be full-time or part-time.

1.2 Industry The industry category is for individuals in steel companies and the steel industry supply chain.
   • The supply chain includes companies who supply the steel industry, who manufacture steel, or are customers of the steel industry.

1.3 Teams There is no team participation in steelChallenge-13. Participation is as an individual only.

1.4 Previous Winners Winners, at both the regional and world levels, from previous steelChallenge competitions are not eligible for steelChallenge-13.

2.0 The Challenge steelChallenge-13 will utilise steeluniversity's Basic Oxygen Steelmaking and Secondary Steelmaking simulators. The simulators will be integrated for the competition and the integrated simulator will be made available for practise prior to the competition.

Competitors are tasked to produce a grade of steel meeting technical requirements at the lowest cost per tonne. The simulation will use a grade of steel specifically designed for steelChallenge-13.

Competitors will first make steel in the Basic Oxygen Furnace simulator and then refine that steel in the Secondary Steelmaking simulator. A ‘heat’ from the Basic Oxygen Steelmaking simulator can only be used once in the Secondary Steelmaking simulator.

Note the simulation is a simplified model of complex real-life processes and therefore will inevitably contain some deviation from actual operating practices and outcomes.

Competitors may undertake unlimited ‘runs’ of the simulator during the 24-hour competition period. A ‘successful run’ is concluded when the simulation has completed, the result has been registered in the competition database, and the competitor has received a confirmation of successful completion.
The single best ‘successful run’ of each competitor will be used to determine their score and placement in the Regional Championship. Therefore, to qualify as Regional Champion, at least 1 ‘successful run’ must be successfully completed.

3.0 Registration

Each competitor must register for steelChallenge-13 on the steeluniversity website. Registration will be open until the end of the Regional Championship at 12.00 UTC on 29 November 2018.

To complete the registration, each individual must provide their name, organisation, address, email and telephone number. Each individual must also indicate whether they are participating in the student or industry category.

Each competitor is assigned to a competition region based on the address provided. The address should reflect where the competitor is living at the time of the Regional Championship.

3.1 Faculty Advisor

Students who work with a faculty advisor may declare the name of the advisor during registration. The faculty advisor must be on the staff of the academic institution where the student is enrolled at the time of the Regional Championship.

Declaration of the faculty advisor is required for the faculty advisor to be eligible for a travel allowance to attend the World Championship in the event the student qualifies.

Declaration of a faculty advisor after registration will not be accepted.

3.2 Multiple Registrations

Each competitor may register only once for steelChallenge-13. Competitors found to have registered multiple times (e.g. with different email addresses) will be disqualified.

3.3 Fee

There is no fee for students to participate in steelChallenge-13.

The fee for industry participants is €24.99 (plus VAT if applicable to those people located in the European Union) per person. The fee must be paid prior to participation in the Regional Championship.

There is no refund of the registration fee.

4.0 Regional Championship

Competitors registered for steelChallenge-13 will compete in the Regional Championship. The regions for steelChallenge-13 are:

- North and South America,
- Europe, CIS, Middle East and Africa,
- Asia and Oceania (excluding China), and
- China.

The Regional Championship will take place over a 24-hour period starting from 12.00 UTC on 28 November 2018.

Competitors should ensure they have a good quality and stable internet connection in order to participate in steelChallenge-13.

steeluniversity shall undertake best efforts to ensure the competition is accessible via its websites and servers, though steeluniversity shall not accept responsibility for lack of access to the website due
to any internet issues beyond our control.

4.1 Simulation Play Each competitor must login via steeluniversity’s website at www.steeluniversity.org to participate in the Regional Championship.

4.2 Simultaneous Runs Each competitor may only have a single login active at any given time and may only run the simulation in a single browser window at any given time. All runs that occur simultaneously will be disqualified and the competitor will be disqualified from steelChallenge.

4.3 Audit of Results Upon conclusion of the Regional Championship, steeluniversity will audit the results to validate successful runs of the simulation. This may take up to 7 days.

4.4 Qualification for the World Championship There will be a total of ten participants qualifying for the World Championship. The ten participants will include:

- The top student and industry participant from each of the four regions, and
- The student and industry participant with the best result worldwide who are not qualified under the first criteria.

Qualified participants, the World Championship Finalists, will be contacted within the auditing period to confirm their identity, eligibility for the competition, and ability to participate in the World Championship. This confirmation is required to be completed within 24 hours of being contacted by steeluniversity.

In the event a participant is deemed not eligible or able to participate in the World Championship as a Finalist, the participant with the next best result may be selected as a World Championship Finalist.

5.0 World Championship The World Championship Finalists qualifying from the Regional Championship will participate in the World Championship scheduled for 16 April 20191 in Madrid, Spain. This round of the competition will use one of the steeluniversity simulators during a 2-hour period.

The challenge for this round of competition will be to produce the single best result for the simulation. The simulation will be played on tablets supplied by steeluniversity.

5.1 World Champions The results of the World Championship will be audited, and the winners declared 16 April 2019. There will be a World Champion in each of the student and industry categories.

6.0 Prizes Prizes will be awarded to the qualified World Championship Finalists and the World Champions in each of the student and industry categories. The prize breakdown is:

- World Championship Finalists
  - €500
  - Travel allowance of up to €1,500 to participate in the World Championship, with the travel allowance including a two-night stay in the steelChallenge hotel, economy class flight to Madrid, local transportation

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1 The date of the World Championship is subject to change
and meals.
  o Tablet after use at the World Championship
  o World Championship Finalist certificate
  o Award ceremony with the worldsteel Board of Directors at the World Championship
  o Profile featured on the steeluniversity website

- World Champions
  o €500
  o World Champion certificate
  o steelChallenge-13 trophy

In addition, the participants qualified to the World Championship in the student category will win up to €1,500 in travel allowance for their faculty advisor to join them at the World Championship and the faculty advisor will also receive a certificate to recognise their contribution to steelChallenge.

The faculty advisor must be declared during registration for the Regional Championship of steelChallenge-13 in order to be eligible for the travel allowance and certificate.

### 7.0 Schedule

The summary of the competition schedule is:

- 07 September 2018 - Registration opens
- 28 November 2018 - Regional Championship
- 05 December 2010 – Notice of results
- 16 April 2019 – World Championship
- 16 April 2019 – Notice of results

### 8.0 Fair Play

Simulation results which exploit unexpected and/or unrealistic behaviours in the simulation code will be considered invalid. Any attempt to modify the simulation code will result in disqualification from steelChallenge-13.

### 8.1 Notification

Competitors who discover an unexpected and/or unrealistic behaviour in the simulation code may contact steeluniversity to request a judgement on whether the behaviour is permissible.

Steeluniversity can be contacted by e mail at support@steeluniversity.org. During the Regional Championship, a response will be provided within 2 hours.

### 9.0 Disputes

steeluniversity shall endeavour to resolve any disputes arising from the competition. Decisions of steeluniversity shall be final.

### 10.0 Language

Registration for steelChallenge-13, the competition rules and the simulations used in the Regional and World Championship will be available in English, Chinese (simplified), Spanish and Russian. All other aspects of the competition, including support, will be conducted in English. The English language version of the Rules shall be definitive.

### 11.0 Personal Information

By registering for steelChallenge-13, competitors agree the personal information provided may be used by World Steel Association, its members, and sponsors of steelChallenge-13 to analyse the outcomes of the competition, to promote the competition, and to be
contacted with respect to this competition.

For more detail about the treatment of personal information, refer to the World Steel Association privacy policy available at https://www.worldsteel.org/global/privacy-policy.html.

12.0 Personal Conduct

World Championship Finalists will be attending a World Steel Association event. By accepting the invitation to the World Championships, the Finalist agrees to:

- conduct themselves with integrity,
- be respectful of other Finalists, worldsteel Members, and worldsteel staff, and
- follow local laws and be mindful of local customs.

worldsteel, at its sole discretion, may disqualify a Finalist for demonstration of poor personal conduct.

13.0 Support

Questions about steelChallenge-13 may be directed to support@steeluniversity.org.