

# 2021 CDS COMPETITION PLANS

September 1, 2020





## 2021 COMPETITION PLAN

Dear Collegiate Design Series Teams,

As the world embraces the new reality of the COVID-19 into 2021, SAE International wants to ensure you that we are moving forward with plans to allow continued student engagement in a controlled manner to meet all the necessary precautions of the pandemic and still deliver on strong educational experiences for your teams in 2021.

We know that planning for a typical competition year is not an option based on the following:

- Academia landscape is reporting over 50% universities resuming the fall semester operating either 100% virtual or with some sort of hybrid model. Spring semesters are either reported as going virtual or TBD.
- 85% of our teams reported seeing their project funding either secured and now in jeopardy or not being secured.
- 71 % of the teams have restrictions on budget and lab space set by the university
- 45% of our teams may be unable to participate onsite in the spring/summer due to being located outside of the United States border.
- 28% of teams already are aware of a travel ban policy implemented at their university effective until end of Spring 2021 semester.
- Many sponsors and volunteers' employers still have a travel restriction ban in place.
- Local and State guidelines on operating large group gatherings vary in sizes across the country and within the state itself. Currently the largest reported flat number is 250; some venues offer a percentage such as 25% of max capacity or whatever is the smallest number.

Then we must consider items like having to social distance, requiring personal protection equipment, creating plans for contact tracing, temperature checks and COVID-19 safety protocols for onsite operations.

All of that said, we are working on a model to deliver both static and dynamic events at most 2021 competitions.

How will SAE International deliver a competition season for both static and dynamic engagement?

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## SAE Aero Design

### Event Structure/Registration

SAE International will operate the 2021 competition season using a Hybrid Model offering student engagement in a 2-Step Registration Process.

#### **Step 1 – SAE Aero Design Knowledge Event**

Registration will open for this ALL virtual event the week of October 12. It is a requirement to take part in this virtual SAE Aero Design Knowledge event to register for the SAE Aero Design Validation Event that will be held in person. This event will include the following:

- Written Design Paper – date TBA
- Oral Design Presentation – date TBA
- Educational online workshop – date TBA

#### **Step 2 - SAE Aero Design Validation Event**

Registration for this event will open the week of November 18th. It is a requirement to take part in the SAE Aero Design Knowledge Event to register for this event. This event will include the following:

- Technical Inspection – dates and location(s) TBA
- Flight Rounds – dates and location(s) TBA

Operating the 2021 competition season using the hybrid model will allow for any international team to participate in the competition by participating in the SAE Aero Design Knowledge Event if travel bans and closed borders remain an issue.

Operating the 2021 competition season using the hybrid model, SAE will also be restricting universities to registering for one competition only per airplane class. At this time, we will not be allowing duplicate registration to more than one SAE Aero Design Validation Event.

### Registration Fee Structure

Knowledge Event fee – student teams who register during the week of October 12<sup>th</sup> will be required to make payment of \$700.00 within 48 hours of confirming registration online. Registration fees are non-refundable.

Validation Event fee – student teams who register during the week of November 18<sup>th</sup> will be required to make final confirmation and payment of \$400.00 prior to 60 Days Out from Validation Event date.

Registration fees are non-refundable.

*\*If the competition is cancelled due to COVID-19, a portion will be refunded pending review of available funds from operating costs.*

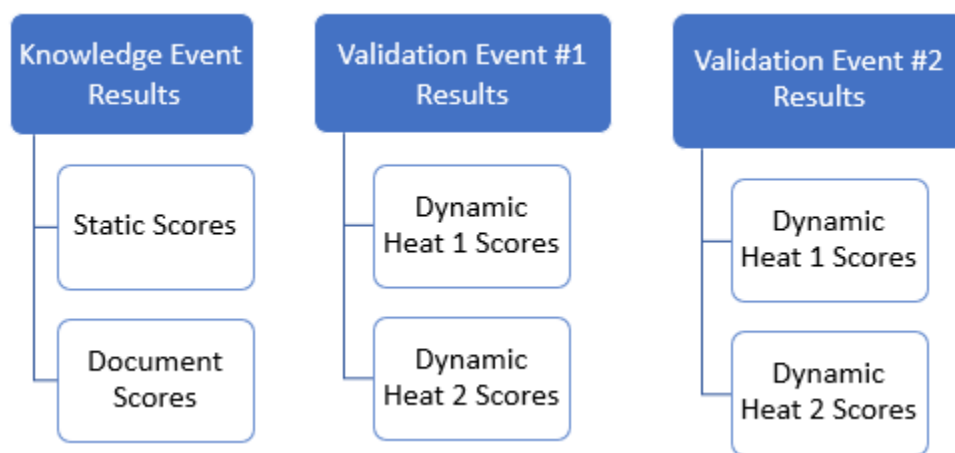
### Event Results

At this time, it is SAE International's plan to score the virtual static events hosted during the

Knowledge Event as a separate competition resulting in recognition of award winners for both individual events as well as overall accumulative score.

At this time, it is SAE International's plan to score the on-site dynamic events hosted during the Validation Event as a separate competition resulting in recognition of award winners for both individual events as well as overall accumulative score. \*Pending local/state guidelines based on CDC guidelines, the on-site events could see an operation change meaning we could be operating either one large event or several "heats" consisting of smaller number of teams onsite every 2-3 days. SAE will make every to keep this process as fluid as possible to best prepare teams, volunteers, and staff.

Below is just an example of what the 2021 season could look like:



SAE cannot stress enough the point that this year, the competition season will need to be flexible in planning to ensure the best experience possible. We may need to make changes as we get closer to onsite dynamic events. We will do our best to keep teams informed and prepared. We appreciate your patience during this time.

### Key Dates for Teams to know:

**5-Oct-2020:** SAE will publish final approved static event descriptions detailing expectations for judging, required submissions and deadlines, platform being used, target date for static judging. SAE Staff and volunteers have been working on these to date with goal of final review week of September 28<sup>th</sup>.

On or before this date, SAE will publish details related to the Validation Event.

**6-Oct-2020:** SAE will host an online Fall Kick Off Event for all CDS teams planning to participate in 2021. As part of the event, SAE staff will be available for Q&A in regard to the 2021 competition plans.

More details will be shared in a separate post online soon.

**12-Oct-2020:** Step 1 for Knowledge Event Opens  
Payment due 48 hours after registration confirmation.

**18-Nov-2020:** Step 2 for Validation Event Registration Opens  
Final confirmation and payment will be due prior to 60 days out from the Validation Event.  
At this time, SAE will also provide a timetable of established dates for making the judgement call to operate onsite.

On behalf of the Organizing Committee we thank you for your continued participation and patience as we navigate through this continued pandemic.

## **Baja SAE**

### Event Structure/Registration

SAE International will operate the 2021 competition season using a Hybrid Model offering student engagement in a 2-Step Registration Process.

#### **Step 1 – Baja SAE Knowledge Event**

Registration will open for this ALL virtual event the week of October 12. It is a requirement to take part in this virtual Baja SAE Knowledge Event to register for the Baja SAE Validation Event that will be held in person. This event will include the following:

- Written Design Paper – date TBA
- Cost Report Submission – date TBA
- Oral Design Presentation – date TBA
- Oral Cost Presentation – date TBA
- Oral Business Presentation – date TBA
- Educational online workshop – date TBA

#### **Step 2 – Baja SAE Validation Event**

Registration for this event will open the week of November 18th. It is a requirement to take part in the Baja SAE Knowledge Event to register for this event. This event will include the following:

- Technical Inspection – dates and location(s) TBA
- All Dynamic Events – dates and location(s) TBA

Operating the 2021 competition season using the hybrid model will allow for any international team to participate in the competition by participating in the Baja SAE Knowledge Event if travel bans and closed borders remain an issue.

Operating the 2021 competition season using the hybrid model, SAE will also be restricting universities to registering for one competition only. At this time, we will not be allowing duplicate registration to more than one Baja SAE Validation Event.

### Registration Fee Structure

Knowledge Event fee – student teams who register during the week of October 12<sup>th</sup> will be required to make payment of \$900.00 within 48 hours of confirming registration online. Registration fees are non-refundable.

Validation Event fee – student teams who register during the week of November 18<sup>th</sup> will be required to make final confirmation and payment of \$450.00 prior to 60 Days Out from Validation Event date.

Registration fees are non-refundable.

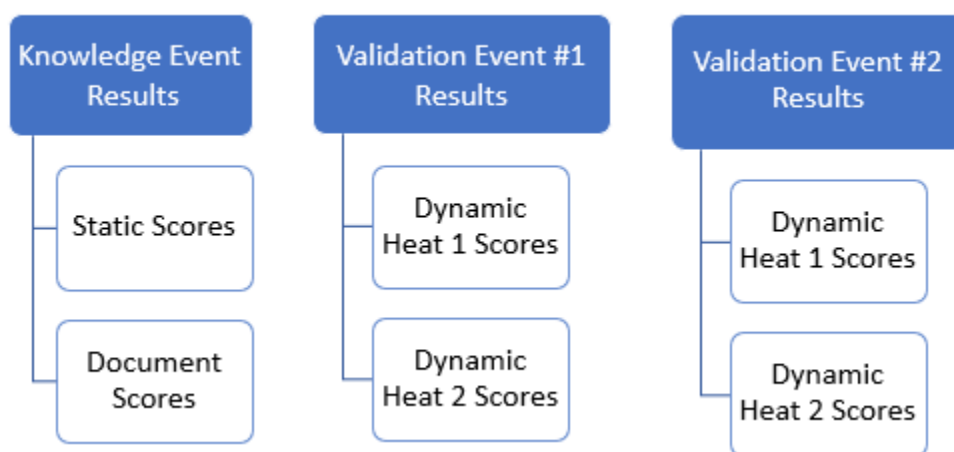
*\*If the competition is cancelled due to COVID-19, a portion will be refunded pending review of available funds from operating costs.*

### Event Results

At this time, it is SAE International's plan to score the virtual static events hosted during the Knowledge Event as a separate competition resulting in recognition of award winners for both individual events as well as overall accumulative score.

At this time, it is SAE International's plan to score the on-site dynamic events hosted during the Validation Events as a separate competition resulting in recognition of award winners for both individual events as well as overall accumulative score. \*Pending local/state guidelines based on CDC guidelines, the on-site events could see an operation change meaning we could be operating either one large event or several "heats" consisting of smaller number of teams onsite every 2-3 days. SAE will make every to keep this process as fluid as possible to best prepare teams, volunteers, and staff.

Below is just an example of what the 2021 season could look like:



SAE cannot stress enough the point that this year, the competition season will need to be flexible in planning to ensure the best experience possible. We may need to make changes as we get closer to onsite dynamic events. We will do our best to keep teams informed and prepared. We appreciate your patience during this time.

### Key Dates for Teams to know:

**5-Oct-2020:** SAE will publish final approved static event descriptions detailing expectations for judging, required submissions and deadlines, platform being used, target date for static judging. SAE Staff and volunteers have been working on these to date with goal of final review week of September 28<sup>th</sup>.

On or before this date, SAE will publish details related to the Validation Event.

**6-Oct-2020:** SAE will host an online Fall Kick Off Event for all CDS teams planning to

participate in 2021. As part of the event, SAE staff will be available for Q&A in regard to the 2021 competition plans.

More details will be shared in a separate post online soon.

**12-Oct-2020:** Step 1 for Knowledge Event Opens

Payment due 48 hours after registration confirmation.

**18-Nov-2020:** Step 2 for Validation Event Registration Opens

Final confirmation and payment will be due prior to 60 days out from the Validation Event.

At this time, SAE will also provide a timetable of established dates for making the judgement call to operate onsite.

On behalf of the Organizing Committee we thank you for your continued participation and patience as we navigate through this continued pandemic.



## **SAE Clean Snowmobile Challenge**

### Event Structure/Registration

SAE International will operate the 2021 competition as 100% virtual.

## **SAE Clean Snowmobile Challenge Knowledge Event**

Registration will open for this ALL virtual event the week of October 12.

This event will include the following:

- Written Design Paper – date TBA
- Oral Design Presentation – date TBA
- Dynamic Event Modeling Submissions – date TBA
- Dynamic Event Modeling Judging – date TBA
- Educational online workshop – date TBA

### Registration Fee Structure

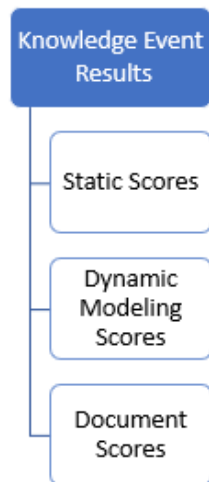
Knowledge Event fee – student teams who register during the week of October 12<sup>th</sup> will be required to make payment of \$650.00 within 48 hours of confirming registration online. Registration fees are non-refundable.

Operating the 2021 competition season using the virtual model will allow for any international team to participate in the competition by participating in the SAE Clean Snowmobile Knowledge Event if travel bans and closed borders remain an issue.

### Event Results

At this time, it is SAE International's plan to score the virtual static and dynamic events hosted during the Knowledge Event as separate events resulting in recognition of award winners for both individual events as well as overall accumulative score.

Currently, SAE International's plan to score the dynamic events through use of modeling components where each selected dynamic event will have its own set of models and defense used for evaluation and discussion.



### Key Dates for Teams to know:

**5-Oct-2020:** SAE will publish final approved static event descriptions detailing expectations for judging, required submissions and deadlines, platform being used, target date for static judging. SAE Staff and volunteers have been working on these to date with goal of final review week of September 28<sup>th</sup>.

**6-Oct-2020:** SAE will host an online Fall Kick Off Event for all CDS teams planning to participate in 2021. As part of the event, SAE staff will be available for Q&A in regard to the 2021 competition plans.

More details will be shared in a separate post online soon.

**12-Oct-2020:** Step 1 for Knowledge Event Opens  
Payment due 48 hours after registration confirmation.

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## Formula SAE

### Event Structure/Registration

SAE International will operate the 2021 competition season using a Hybrid Model offering student engagement in a 2-Step Registration Process.

#### **Step 1 – Formula SAE Knowledge Event**

Registration will open for this ALL virtual event the week of October 12. It is a requirement to take part in this virtual Formula SAE Knowledge Event to register for the Formula SAE Validation Event that will be held in person. This event will include the following:

- Written Design Paper – date TBA
- Cost Report Submission – date TBA
- Oral Design Presentation – date TBA
- Oral Cost Presentation – date TBA
- Oral Business Presentation – date TBA
- Educational online workshop – date TBA

#### **Step 2 – Formula SAE Validation Event**

Registration for this event will open the week of November 18th. It is a requirement to take part in the Formula SAE Knowledge Event to register for this event. This event will include the following:

- Technical Document Submissions – dates TBA
- Technical Inspection – dates and location(s) TBA
- All Dynamic Events – dates and location(s) TBA

Operating the 2021 competition season using the hybrid model will allow for any international team to participate in the competition by participating in the Formula SAE Knowledge Event if travel bans and closed borders remain an issue.

Operating the 2021 competition season using the hybrid model, SAE will also be restricting universities to registering for one competition only per vehicle class. At this time, we will not be allowing duplicate registration to more than one Formula SAE Validation Event.

### Registration Fee Structure

Knowledge Event fee – student teams who register during the week of October 12<sup>th</sup> will be required to make payment of \$1550.00 within 48 hours of confirming registration online. Registration fees are non-refundable.

Validation Event fee – student teams who register during the week of November 18<sup>th</sup> will be required to make final confirmation and payment of \$800.00 prior to 60 Days Out from Validation Event date.

Registration fees are non-refundable.

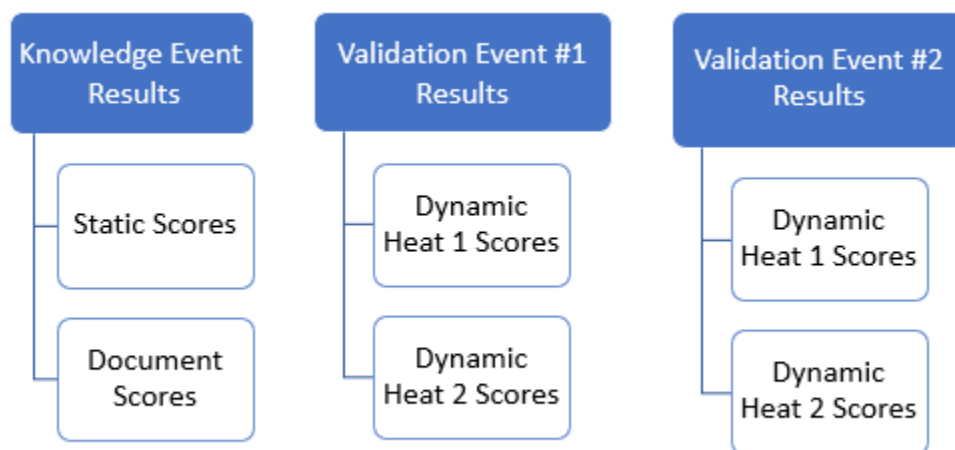
*\*If the competition is cancelled due to COVID-19, a portion will be refunded pending review of available funds from operating costs.*

### Event Results

At this time, it is SAE International's plan to score the virtual static events hosted during the Knowledge Event as a separate competition resulting in recognition of award winners for both individual events as well as overall accumulative score.

At this time, it is SAE International's plan to score the on-site dynamic events hosted during the Validation Events as a separate competition resulting in recognition of award winners for both individual events as well as overall accumulative score. \*Pending local/state guidelines based on CDC guidelines, the on-site events could see an operation change meaning we could be operating either one large event or several "heats" consisting of smaller number of teams onsite every 2-3 days. SAE will make every effort to keep this process as fluid as possible to best prepare teams, volunteers, and staff.

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On or before this date, SAE will publish details related to the Validation Event.

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## SAE Supermileage

### Event Structure/Registration

SAE International will operate the 2021 competition season using a Hybrid Model offering student engagement in a 2-Step Registration Process.

#### **Step 1 – SAE Supermileage Knowledge Event**

Registration will open for this ALL virtual event the week of October 12. It is a requirement to take part in this virtual SAE Supermileage Knowledge Event to register for the SAE Supermileage Validation Event that will be held in person. This event will include the following:

- Written Design Paper – date TBA
- Oral Design Presentation – date TBA
- Educational online workshop – date TBA

#### **Step 2 – SAE Supermileage Validation Event**

Registration for this event will open the week of November 18th. It is a requirement to take part in the SAE Supermileage Knowledge Event to register for this event. This event will include the following:

- Technical Inspection – dates and location(s) TBA
- Fuel Economy Rounds – dates and location(s) TBA

Operating the 2021 competition season using the hybrid model will allow for any international team to participate in the competition by participating in the SAE Supermileage Knowledge Event if travel bans and closed borders remain an issue.

### Registration Fee Structure

Knowledge Event fee – student teams who register during the week of October 12<sup>th</sup> will be required to make payment of \$600.00 within 48 hours of confirming registration online. Registration fees are non-refundable.

Validation Event fee – student teams who register during the week of November 18<sup>th</sup> will be required to make final confirmation and payment of \$350.00 prior to 60 Days Out from Validation Event date.

Registration fees are non-refundable.

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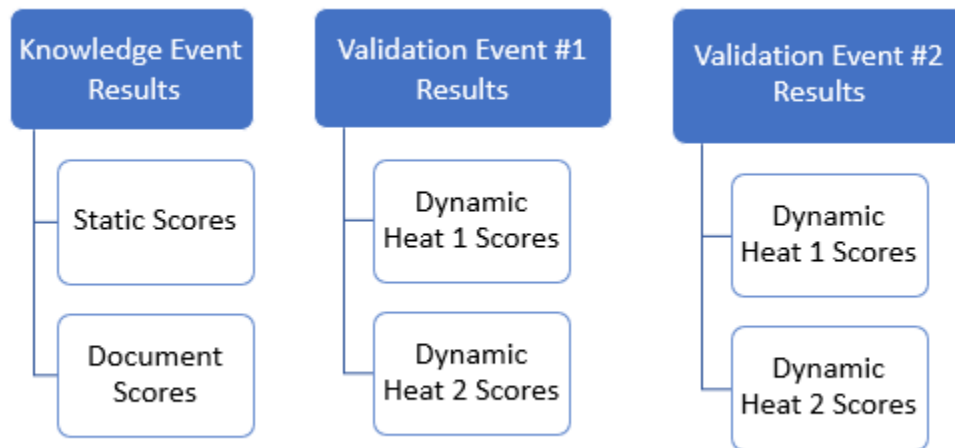
### Event Results

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