

4th Annual INFRASTRUCTURE WORKS DERBY

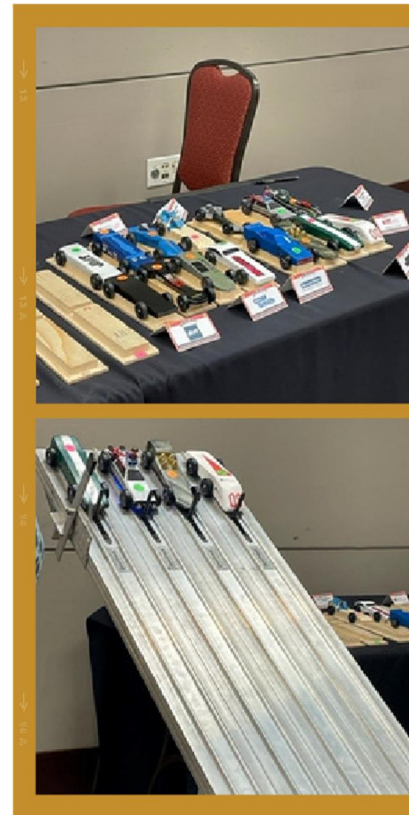
THANK YOU for your support of the ACEC-SC / SCDOT Annual Meeting!
Your sponsorship comes with a car kit and entry to the Infrastructure Works Derby

WHAT IS THE INFRASTRUCTURE WORKS DERBY?

The Derby is a traditional wooden car race sponsored by ACEC-SC's Emerging Leaders Board (ELB) to add some fun and competition to the annual meeting and to raise money and awareness for the newly created ACEC-SC Infrastructure Works Institute, a 501(c)(3) non-profit that informs stakeholders of the state's infrastructure status, invests in tomorrow's engineers, and advances the business of engineering in SC.

HOW DO WE GET IN ON THE FUN?

1. Email Mitchel Cooper at mitchel.cooper@kimley-horn.com to receive your car kit.
2. Build your car!
Cars must comply with Car Specifications.
3. Bring your car to the ACEC-SC / SCDOT Annual Meeting to compete against other firms and SCDOT staff.
4. Come to the Annual Meeting Reception to watch the finals and cheer on your car!



SCAN TO VIEW A
VIDEO FROM THE
INAUGURAL
DERBY



REGISTER
OR BECOME
A SPONSOR
TODAY!



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CAR SPECIFICATIONS

CAR BODY

1. The main body structure must be made from wood.
2. Measurements:
 - a. Total Car Height: Not to exceed 3 inches.
 - b. Total Car Length: Not to exceed 7 inches.
 - c. Total Car Width: Not to exceed 2 $\frac{3}{4}$ inches.
 - d. Total Car Weight: Not to exceed 5.00 ounces. The official race scale shall be considered final.
 - e. Wheel base: Any as long as wheels do not exceed the 7" total length requirement.
 - f. The car must have 1 $\frac{3}{4}$ " clearance between the wheels.
 - g. The car must have $\frac{3}{8}$ " clearance underneath the body.
 - h. The front end must be at least $\frac{1}{2}$ " wide in the middle.
3. No part of the car may extend beyond the starting peg.
4. The wheels may not extend beyond the rear of the car.

AXLES

1. 4 axles and wheels must be installed to the side of the car body directly across from one another / no more than a 45-degree angle. Rear wheels cannot be reversed.
2. Minimum diameter 0.084.
3. Axles must have a nail head.
4. Lubrication: only dry lubrication will be allowed.

WHEELS

1. May be BSA, Maximum Velocity, Awana, or Pinecar.
2. May be CnCed, lathed, polished, and/or sanded to true the edge of tread, surface, and circumference.
3. The tread / contact surface must remain flat and parallel to the bore as humanly possible.
4. No Angling, Reshaping, Canting, Round Crowning, Tapering, H-ing, V-ing, Dishing the outside of the wheels and/or tread surface.
5. Lettering must remain visible on the inside and outside of the wheel. In the case of a wheel that has no lettering on the outside the original shape must remain. A wheel cannot be machined flat on the outside sidewall.
6. Wheel covers may be used only if entire wheel is visible.
7. 7.50 mm Minimum Tread Width.
8. Wheels have no weight restriction as long as they meet the above requirements.

THE FOLLOWING ARE PROHIBITED: Springs; starting devices or propellants; liquid, wet paint, oil, sticky substances, or powders other than axle lubrication; glass or excessively fragile parts; wheel bearings; or loose material of any kind (such as lead shot).

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RULES

DECISIONS OF THE RACE OFFICIALS ARE FINAL.

REGISTRATION

- *Proceeds go to ACEC-SC Infrastructure Works Institute*
- Race entry is included with each sponsorship and exhibit purchase.
- Additional entries (team or individual) are \$75.00 each and are tax deductible.
- One car building kit will be provided with each registration.
(e-mail Mitchel Cooper at mitchel.cooper@kimley-horn.com to receive your kit.)
- Participants may purchase (at their own expense) alternative pinewood blocks, axles, wheels, and other accessories, provided they meet race specifications.
- Participants do not have to be present to race. *See Race Rules for more information.*
- Limited "rentals" will be available the day of for racing in support of the ELB.

RACE RULES

- Check-in: begins at 7:30AM
 - ◦ Cars must be checked in by 10:30AM.
- Inspections: All cars must pass inspection
 - Cars will be inspected by a race official for compliance with *Car Specifications*.
 - After cars are inspected, they will be moved to the "pit area" and may not be touched except to race.
 - Cars that do not pass initial inspection will be given 30 minutes to make modifications and have the car re-inspected.
 - During the race, cars will only be handled by a race official.
 - Lubrication of wheels and axles may take place prior to check-in and prior to the final race.
- Racing
 - Ladder less elimination system will be utilized.
 - Cars will be assigned points based on finishes in each heat.
 - On race day, a point total will be established (based on number of entries.) Once a car reaches a maximum point total, it will be eliminated.
 - Heat races will continue to be run until a group of finalists is established. The final races will be run at the end of the event.
 - Prior to the final race, finalists will be allowed to re-lubricate; no other modifications will be allowed.

PRIZES

- Prizes will be award for the 1st, 2nd, and 3rd fastest cars, as well as for the slowest car and a "fan favorite" car based on voting by conference attendees.
- Participants do not need to be present to win.
- The fastest car may represent ACEC-SC at the ACEC National Derby in Phoenix, AZ in October 2026.
ACEC-SC will take the car and enter it. Should you choose to attend, attendance and travel is the winner's responsibility.