



18th Annual

Sustainable Design Challenge



For DuPage County High School Students

- Hands-on learning
- Presentations
- Careers
- Engineering
- Architecture
- Sustainability



Tuesday, April 16, 2024

Teacher Info Packet



SCARCE | ENVIRONMENTAL
EDUCATION



Hello Teacher,

Thank you for your interest in getting your students involved in the 18th Annual Sustainable Design Challenge! This impactful STEAM project offers DuPage County High School students the opportunity to flex their creative muscles, hone their research skills, gain experience presenting their work, and interact with professionals from the community.

The Sustainable Design Challenge invites students to:

1. Research, design, and construct a sustainable building model.
2. Present their project to the public and a panel of judges.
3. View models from other teams and schools.
4. Explore sustainability careers through interaction with professionals working in the field.
5. Tour DuPage County Complex buildings with professionals to learn about sustainable design and green infrastructure on the campus (scheduled around their presentation time).
6. Access online resources, including at least one professionally-led virtual tour of local green infrastructure in action.

Cash prizes are awarded to the top projects in three categories:

- Best Overall LEED Design: \$500
- Best Stormwater Design: \$250
- Best Energy Design: \$250

Additional details on the project requirements, judging rubrics, and schedule may be found here in the Student Info Packet section: <https://www.scarce.org/sustainable-design-2/>.

Where & When

The 2024 Sustainable Design Challenge competition is on Tuesday, April 16th from 8:00am-11:15am (approximately) at the Jack T. Knuepfer Admin Building, 421 N. County Farm Road, Wheaton, in the DuPage County Complex. Students can be dropped off with models and proceed to the main entrance/circle drive of the Admin Building. Bus parking should be available at the Linda A. Kurzawa Community Center, 115 N. County Farm Rd, which is walking distance to the Admin building, but may change due to construction projects. Updates will be sent to teachers if/when available. Team check-in will take place with SCARCE staff in the Atrium wherein students will receive their personalized judging and exploration session schedule, which must be followed for the duration of the event. Project exhibition and judging will take place in the Atrium. Exploration Sessions/tours of Green Infrastructure will take place throughout the Admin Building led by Stormwater Management professionals.

A zero-waste lunch will be provided at the DuPage County Fairgrounds, 2015 Manchester Road, N County Farm Rd, Building 2, following the competition. This is about ¾ a mile east of the Admin Building. **Students/teachers must provide their own transportation. Parking is available next to Building 2 where lunch will be served. Walking is not recommended for safety and scheduling purposes.**

During lunch, students will hear a presentation by a Keynote speaker and have the opportunity for further interaction with industry professionals at several career booths. Other activities may be offered for the students. The entire event should conclude by 2:00pm. Please be sure all name tags and folders are returned to SCARCE staff for reuse by the end of the day!

Times and schedules are subject to change based on the final number of registrants, and sufficient notice will be given of any variations.

Awards will be presented at a DuPage County Board meeting in May or June. Date to be determined.

See attached map for detailed information of event locations and parking.

Participation

The challenge is open to any students who attend a high school that serves DuPage County residents. Students may participate in teams of 1-4 individuals; however, it is highly recommended that teams have 2-4 members. Participation is free. **Any single DuPage County high school may have up to 10 participating student teams.**

- Student teams may participate independently or as part of a teacher-sponsored activity. All teams are included in the school's 10-team limit.
- Registration opens February 1st. Teams will be accepted on a first come, first serve basis and be notified within (2) business days of their participation status.*

Team Registration deadline: Monday, April 8th, 2024 by 5:00pm

Register here online: <https://www.scarce.org/sdc-team-registration/>

Be sure to see the Student Info Packet for more specific details.

Please contact Jean if you have any questions.

Contact:

Jean Kent

jean@scarce.org

630-545-9710

*Please contact SCARCE if a reply is not received within two business days.

Additional Resources/Opportunities

A professionally-led virtual “meet-up” presentation will take place before the actual competition on March 21, 2024. This is a great opportunity for registered teams (perfect for examples that can be used in constructing the models) as well as all other students and educators interested in sustainability to learn about local and attainable practices currently in place. **Please encourage anyone interested to participate in this complimentary session.** Separate registration will be required. See page 7 of the Student Packet for more details.

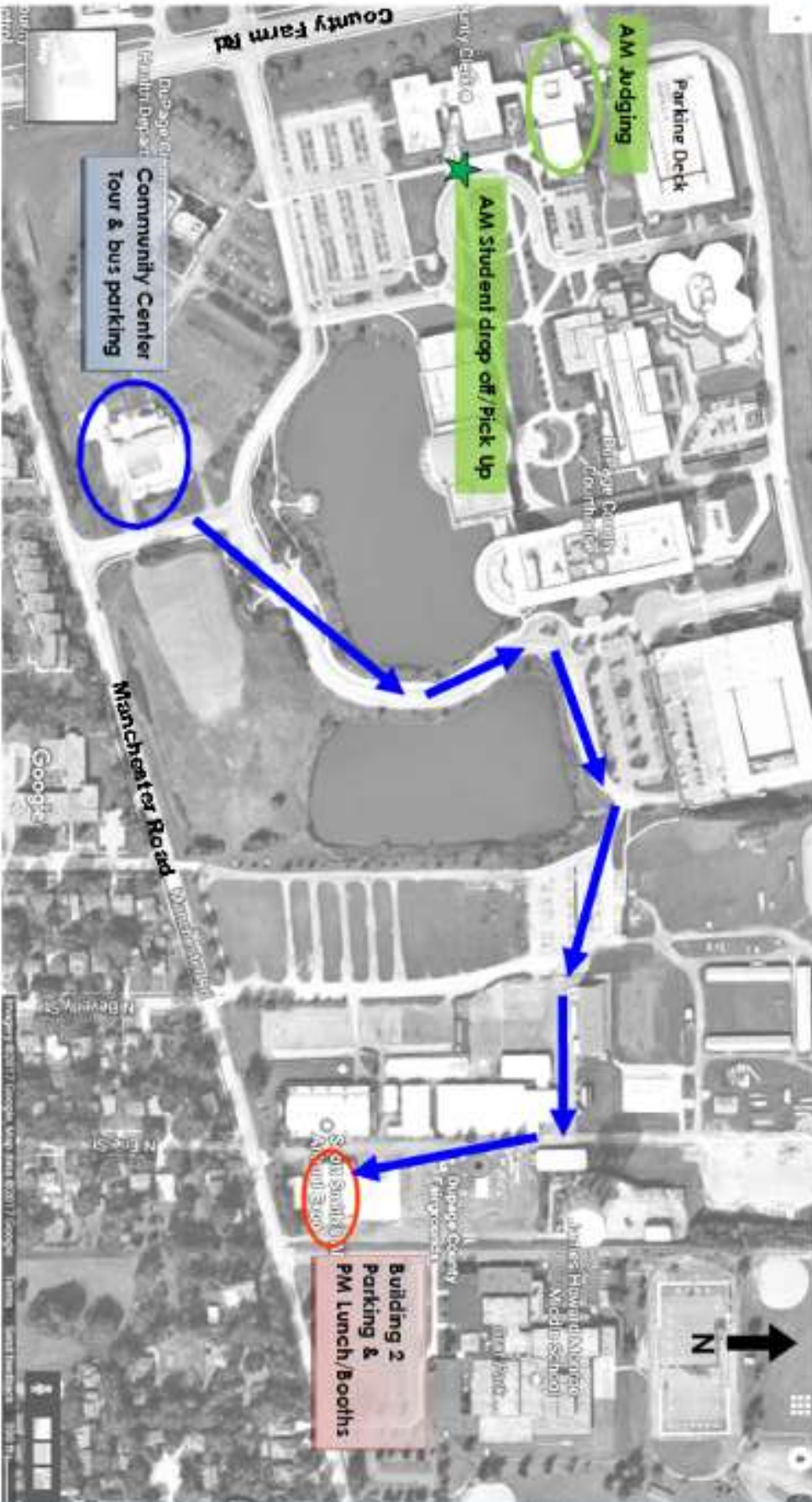
Important Dates

February 1st	Team Registration Opens <i>Register online: https://www.scarce.org/sdc-team-registration/</i>
March 21st	Sustainability in Action Virtual Meet-up. (Separate registration required, see page 7 of student packet.)
April 8th	Team Registration Closes at 5pm
April 16th	18th Annual Sustainable Design Challenge
Late April/Early May	Winners Announced
May or June (Date TBD)	Awards Presentation at a DuPage County Board meeting



Annual Sustainable Design Challenge

Map for Buses & Teachers



AM Student Drop-Off/Pick up: Main entrance circle drive of DuPage County Administration Building 421 N. County Farm Road.

Bus parking is at the Linda A. Kurzawa Community Center, 115 N. County Farm Road (Walking distance to Admin Building).

Vehicle parking for lunch is adjacent to Building 2 in the DuPage County Fairgrounds.