

41st

Annual

South Dakota Science Olympiad

2025 Program

20



25



www.sdscioly.org

Date

**March 22
2025**

Hosted by

**The University of
South Dakota**

Welcome From the State Director

Olympians in Science

For the past several weeks and months, you have prepared for today's tournament by immersing yourself in sciences: biology, chemistry, physics, and engineering.

For some events, you expanded your general knowledge to topics through studying. For others, you learned about keys to successful teamwork or working safely in a lab environment. For yet others, you built devices to do highly specialized tasks. In all cases, you built yourselves into champions of your own place in the world of science. You can carry these skills with you into your future adventures!

We are excited to have you here at the University of South Dakota, and congratulate you on your hard work in preparing and competing today. We wish you the best of luck in the tournament!

Compete hard, compete fair, take the time to Explore USD and check out the University's many unique attractions! But most of all, we hope you have fun!

Welcome to a our 41st Annual SD Science Olympiad State Tournament!

Best regards,
James Tracy
State Director,
SD Science Olympiad

2025 Science Olympiad National Tournament

The Science Olympiad National Tournament will take place at the University of Nebraska – Lincoln, in Lincoln, Nebraska!

Dates: 23-24 May 2025
For more details, please visit
NationalScienceOlympiad2025.org





Tournament Schedule

Registration	Main Entrance, Old Main (across from Slagle)	7:30 — 8:00 am
Coaches Meeting	Meeting Room Old Main	8:10 — 8:20 am
Opening Ceremony	Aalfs Auditorium Slagle Hall	8:30 — 8:45 am
Main Tournament	Division B & C Events USD Campus & VHS Gym	9:00 am — 3:00 pm
USD Exploration	USD Campus	3:00 — 5:00 pm
Coaches Meeting	Room 305, Slagle Hall	4:45 — 5:00 pm
Awards Ceremony*	Aalfs Auditorium Slagle Hall	5:00 — 6:00 pm



YouTube

Remember to let your schools and families know to follow the Opening and Award Ceremonies on YouTube at the handle **@SDSciOly**

In Case of Emergency

For Emergencies: Dial **911**

You can dial 9-911 from any phone on campus or your own cell phone.

To report suspicious behavior:
University Police (605) 658-6199

2025 Tournament Member Teams

Welcome to the 41st SD Science Olympiad! Let's wish our competitors good luck in this year's Tournament!

Division B Schools



Dakota Valley Middle School



Michelson Middle School



Sacred Heart Middle School



Yankton Middle School

Division C Schools



Brookings High School



Elk Point-Jefferson High School



Yankton High School

2024 State Champions

Please join us in congratulating both teams for representing South Dakota at the 2024 National Tournament!

Division B Champs



Yankton Middle School

Division C Champs



Brookings High School

FUN

FACTS

Yankton MS placed in the top 10 for Mission Possible!

Yankton MS placed in the top half of teams for the events:

Flight - Roller Coaster - Wheeled Vehicle - Solar Power

Schedule of Events DIVISION B

Division B	9 am	10 am	11 am	12 pm	1 pm	2pm	
Crime Busters	UPL 208						
Optics	UAK 115						
Road Scholar	UAK 209						
Codebusters		UED 110					
Ecology		UCL 154					
Reach for the Stars		UAK 125					
Anatomy & Physiology			UMS 22A				
Dynamic Planet			UAK 208				
Wind Power			UP 120				
Entomology				UCL 145/146			
Potions and Poisons				UAK 207			
Write It Do It				UP 225/226			
Disease Detectives					UMS 15		
Meteorology					UAK 209		
Metric Mastery					UED 110		
Experimental Design						UCL 151	
Fossils						UAK 209	
Microbe Mission						UMS 15	
Air Trajectory	Impound	VHS Gym	SELF-SCHEDULE Impound in UP 117				
Helicopter		VHS Gym					
Mission Possible	Impound	UAK 119					
Scrambler	Impound	UP Hall					
Tower		UP 222					

UAK Akeley-Laurence Science Center

UAS Arts & Sciences

UCL Churchill-Haines Laboratories

UED Delzell Education center

UMS Lee Medicine Building

UPL Pardee Laboratory

UP Patterson Hall

VHS Gym Vermillion High School

Schedule of Events DIVISION C

Division C	9 am	10 am	11 am	12 pm	1 pm	2 pm	
Ecology	UCL 154						
Materials Science	UPL103						
Dynamic Planet		UAK 208					
Forensics		UPL 208					
Write It Do It		UP 225/226					
Disease Detectives			UMS 15				
Fossils			UAK 209				
Wind Power			UP 120				
Chem Lab				UAK 207			
Codebusters				UED 110			
Entomology				UCL 145/146			
Anatomy & Physiology					UMS 22A		
Astronomy					UAK 125		
Optics					UAK 115		
Experimental Design						UCL 152	
Geologic Mapping						Uak 208	
Microbe Mission						UMS 15	
Air Trajectory	Impound	VHS Gym	SELF-SCHEDULE				
Bungee Drop	Impound	VHS Gym					
Electric Vehicle	Impound						
Helicopter		VHS Gym					
Robot Tour	Impound	VHS Gym					
Tower		UP 222					

UAK Akeley-Laurence Science Center

UAS Arts & Sciences

UCL Churchill-Haines Laboratories

UED Delzell Education center

UMS Lee Medicine Building

UPL Pardee Laboratory

UP Patterson Hall

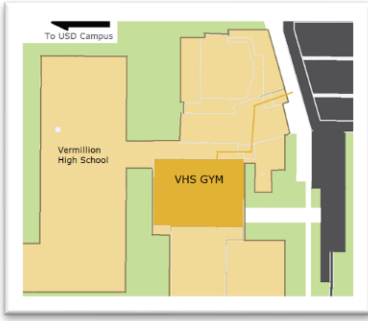
VHS Gym Vermillion High School

State Tournament Event Supervisors

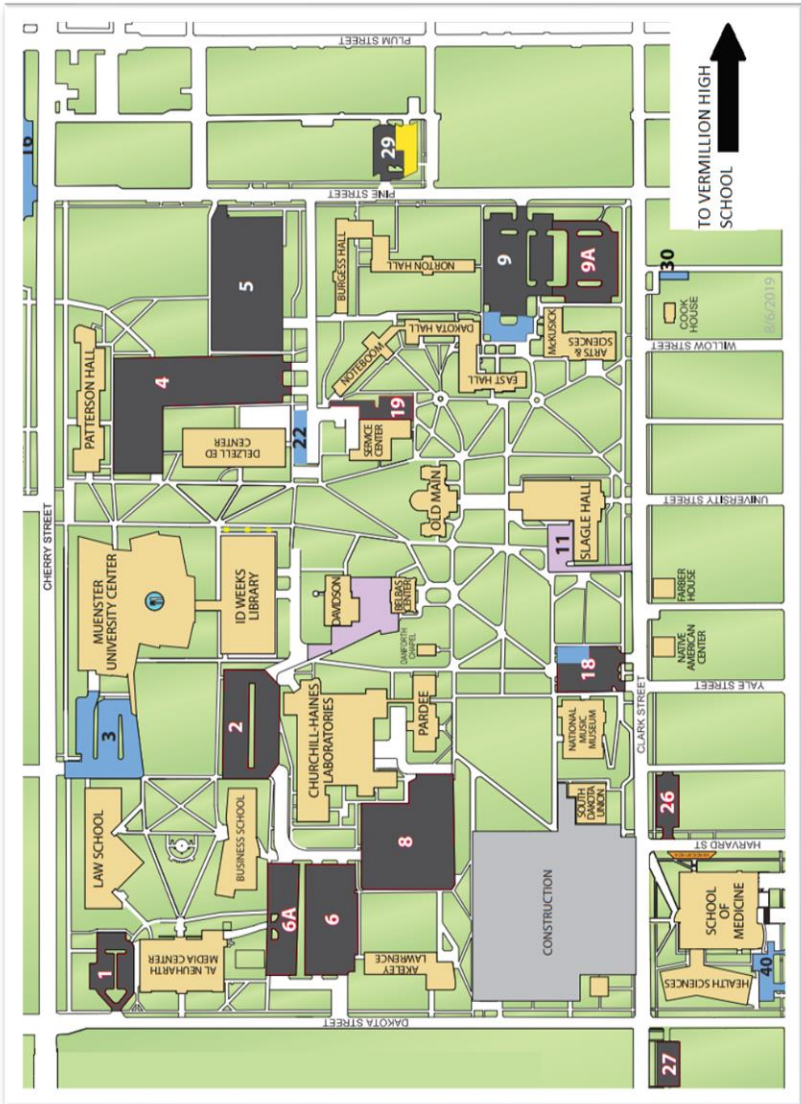
Division B Events	Event Supervisor	Division C Events	Event Supervisor
Air Trajectory	<i>Varun Vaidya</i>	Air Trajectory	<i>Varun Vaidya</i>
Anatomy & Physiology	<i>Barb Goodman</i>	Anatomy & Physiology	<i>Barb Goodman</i>
Codebusters	<i>Rod Rizk</i>	Astronomy	<i>Jing Liu</i>
Crime Busters	<i>Andrew Sykes</i>	Bungee Drop	<i>Kevin Reins</i>
Disease Detectives	<i>Taylor Soderling</i>	Chem Lab	<i>George Schoendorff</i>
Dynamic Planet	<i>Mark Sweeney</i>	Codebusters	<i>Rod Rizk</i>
Ecology	<i>Laura Dixon</i>	Disease Detectives	<i>Taylor Soderling</i>
Entomology	<i>Laura Dixon</i>	Dynamic Planet	<i>Mark Sweeney</i>
Experimental Design	<i>Laura Dixon</i>	Ecology	<i>Laura Dixon</i>
Fossils	<i>Tom Marshall</i>	Electric Vehicle	<i>Soumodeep Mitra</i>
Helicopter	<i>Yuhlong Lio & Nan Jiang</i>	Entomology	<i>Laura Dixon</i>
Meteorology	<i>Brennan Jordan</i>	Experimental Design	<i>Laura Dixon</i>
Metric Mastery	<i>John Williams</i>	Forensics	<i>Rick Wang</i>
Microbe Mission	<i>Dan Bird</i>	Fossils	<i>Tom Marshall</i>
Mission Possible	<i>Joel Sander</i>	Geologic Mapping	<i>Brennan Jordan</i>
Optics	<i>Yongchen Sun</i>	Helicopter	<i>Yuhlong Lio & Nan Jiang</i>
Potions & Poisons	<i>Grigoriy Sereda</i>	Materials Science	<i>Steven Wu</i>
Reach for the Stars	<i>Jing Liu</i>	Microbe Mission	<i>Dan Bird</i>
Road Scholar	<i>Jennifer Fierro</i>	Optics	<i>Yongchen Sun</i>
Scrambler	<i>Dan Van Peurseem</i>	Robot Tour	<i>Carrie Minette</i>
Tower	<i>Catalin Georgescu</i>	Tower	<i>Catalin Georgescu</i>
Wind Power	<i>Dongming Mei</i>	Wind Power	<i>Dongming Mei</i>
Write It Do It	<i>Isaiah “Yesh” Cohen</i>	Write It Do It	<i>Isaiah Cohen “Yesh”</i>

Campus Map & Parking

Dark Grey areas represent parking spaces. Yellow structures are buildings.



Scan this QR code for directions from Aalfs at USD to Vermillion HS



USD Exploration

The National Music Museum is finally **fully open** for visitors! Individual admission prices are \$5 per student, with free group tours scheduled in advance! For more details, visit <https://www.nmmusd.org/>

Open 10am – 4pm

Free Public Tours 2pm – 4pm (*Not yet confirmed*)



The W. H. Over Museum is a FREE local history museum, located beside the Dakota Dome!

For more details, visit <https://whovermuseum.org/>

Open 10am – 4pm



The USD Physics Club's Telescopes will be on site on Saturday with their telescopes and physics club members to share sun viewing with you!

2pm – 4pm (*tentative*)



Prentis Park is a local attraction with walk paths, frisbee golf course, tennis and basketball courts, and more!

Open all day



SDSO Community Partners & Sponsors



SDSO Community Partners & Sponsors

SD Science Olympiad Acknowledgments

Departmental Coordinators

David Hawkinson
Chemistry Department

Doug Goodman
Computer Science Department

Laura Dixon
Biology Department

Yongchen Sun
Physics Department

John Williams
School of Education

Clark Bennet
Mathematics Department

Barbara Goodman
Basic Biomedical Sciences

Brennan Jordan
Sustainability Department

Volunteers

SD Greek Letter Societies

USD Contributors

Admissions Office
College of Arts and Sciences
Department of Biology
Department of Chemistry
Department of Computer Science
Department of Health Sciences
Department of Mathematical
Sciences

Department of Military Science
Department of Physics
Department of Sustainability
Earth Sciences Program
Facilities Management
School of Education
Sanford School of Medicine

SDSO Ethics & Pledges

Science Olympiad Code of Ethics

Student participants are expected to compete in tournament events with honest effort to follow the rules and the spirit of the competition. Team members are expected to be the builders of all the devices used in the events.

The goal of competition is to give one's best effort while displaying honesty, integrity, and sportsmanship. Students, coaches, parents, and guests are expected to display courtesy and respect toward Science Olympiad officials, other teams, and guests of the Science Olympiad.

Failure to show honesty and/or courtesy by a participant, coach, or guest of the team may result in the disqualification of the team from that event, the entire tournament or future tournaments.

Science Olympiad Pledges

Student:

I pledge to put forth my best effort in the Science Olympiad tournament and to uphold the principles of honest competition. In my events, I will compete with integrity, respect, and sportsmanship towards my fellow competitors. I will display courtesy towards Event Supervisors and Tournament Personnel. My actions will exemplify the proud spirit of my school, team, and state.

Coach:

On behalf of the coaches and assistants at this tournament, I pledge to encourage honesty and respect for tournament personnel, our fellow coaches, and other team members. We want our efforts to bring honor to our community and school.

Parent:

On behalf of the parents and spectators I pledge to be an example for our children by: respecting the rules of the Science Olympiad, encouraging excellence in preparation and investigation, supporting independence in design and production of all competition devices, and respecting the decisions of event supervisors and judges.

Our examples will promote the spirit of cooperation within and among all our participating teams.

Event Supervisor:

On behalf of my fellow supervisors and tournament personnel, I pledge to run my event with fairness and respect for the participants and their coaches. Our actions will reflect the principles of the Science Olympiad program and display the pride we feel as representatives of our colleges, universities, companies, states or organizations.

Integrity

(Famous Albert Einstein Quote)

“The most important human endeavor is striving for morality in our actions. Our inner balance and even our very existence depends on it. Only morality in our actions can give beauty and dignity to our lives.”

***I never once failed at making
a light bulb. I just found 99
ways not to make one***

- T. Edison

***If we knew what we were doing, it
wouldn't be called "research", would it?***

- A. Einstein



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***If at first you don't
succeed, try, try again***

- W. E. Hickson