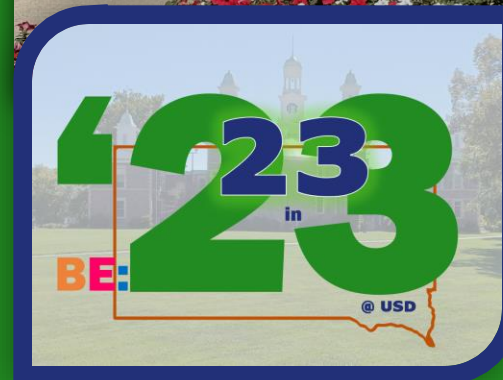
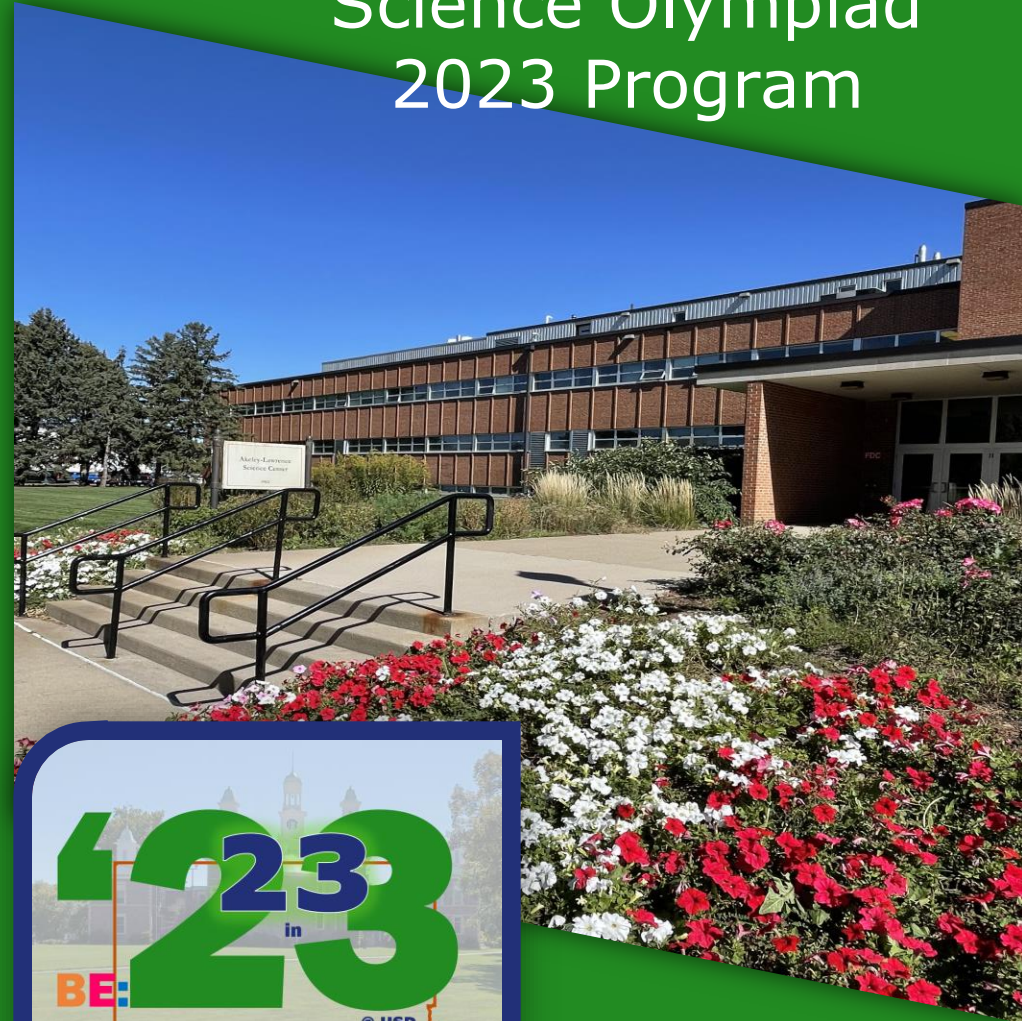


39th
Annual

South Dakota Science Olympiad 2023 Program



March 25, 2023

Hosted by The University of South Dakota

www.sdscioly.org



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Welcome From the State Director

WELCOME

to South Dakota's top science competitors! You've made it!

After months of hard work, study, practice, and, yes, frustration with the weather, it is time to put your skills to the test and challenge other teams in our great state!

For me, this too has been quite a learning experience. I have gotten to know a lot of the things that my predecessor made look so easy, and it has been fun working with coaches, event supervisors, and our own SDSO Executive team to help build the next phase of the South Dakota Science Olympiad experience.

And so, as you enter into this year's state tournament, remember that yes, you *are* here to compete, but you are also here to explore the best you can be and the best you can try to be!

One of my favorite shows has a quote: "The souffle isn't the souffle; the souffle is the recipe!" In a similar sense, think of the SD Science Olympiad state tournament in this way:

The Tournament isn't the competition; the Tournament is the experience!

Good luck to all teams and have a great Tournament!

James Tracy

SD State Director

2023 National Science Olympiad

The National Science Olympiad will take place at
Wichita State University

On Saturday, 20 May 2023



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."

SDSO Community Partners & Sponsors



Schedule of Events

Registration	N. Auditorium Entrance, Slagle Hall	7:30 — 8:00 am
Coaches Meeting	Slagle Hall – Room 305	8:10 — 8:25 am
Opening Ceremony*	Aalfs Auditorium, Slagle Hall	8:30 — 8:45 am
Events Competition	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 know to follow the Opening and Award Ceremonies on YouTube and Facebook!
 **LIVE**

In Case of Emergency

For Emergencies: **Call 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

This Year's Competitors

Division B Schools



Dakota Valley Middle School



Elk Point-Jefferson
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

Welcome to the 39th SD Science Olympiad Let's wish our competitors good luck in this year's Tournament!

South Dakota Science Olympiad 2022 State Champions

Division B



Yankton Middle School

Division C



Brookings High School

Please join us in congratulating both teams for representing South Dakota at the 2022 National Tournament! Great job!

DID YOU KNOW?

**Yankton MS scored in the
Top 10 nationally in MOUSETRAP
VEHICLE, and
Top 20 in DIGITAL STRUCTURES**

SCIENCE OLYMPIAD
2022 **NATIONAL
TOURNAMENT**



Caltech

SD Science Olympiad Acknowledgments

Departmental Coordinators

David Hawkinson
Chemistry Department

Yongchen Sun
Physics Department

Jake Kerby
Biology Department

Nan Jiang
Mathematics Department

Kevin Reins
School of Education

Brennan Jordan
Sustainability Department

Barbara Goodman
Basic Biomedical Sciences

Clark Bennet
Mathematics Department

Doug Goodman
Computer Science Department

Volunteers

USD Greek Letter Societies

USD Contributors

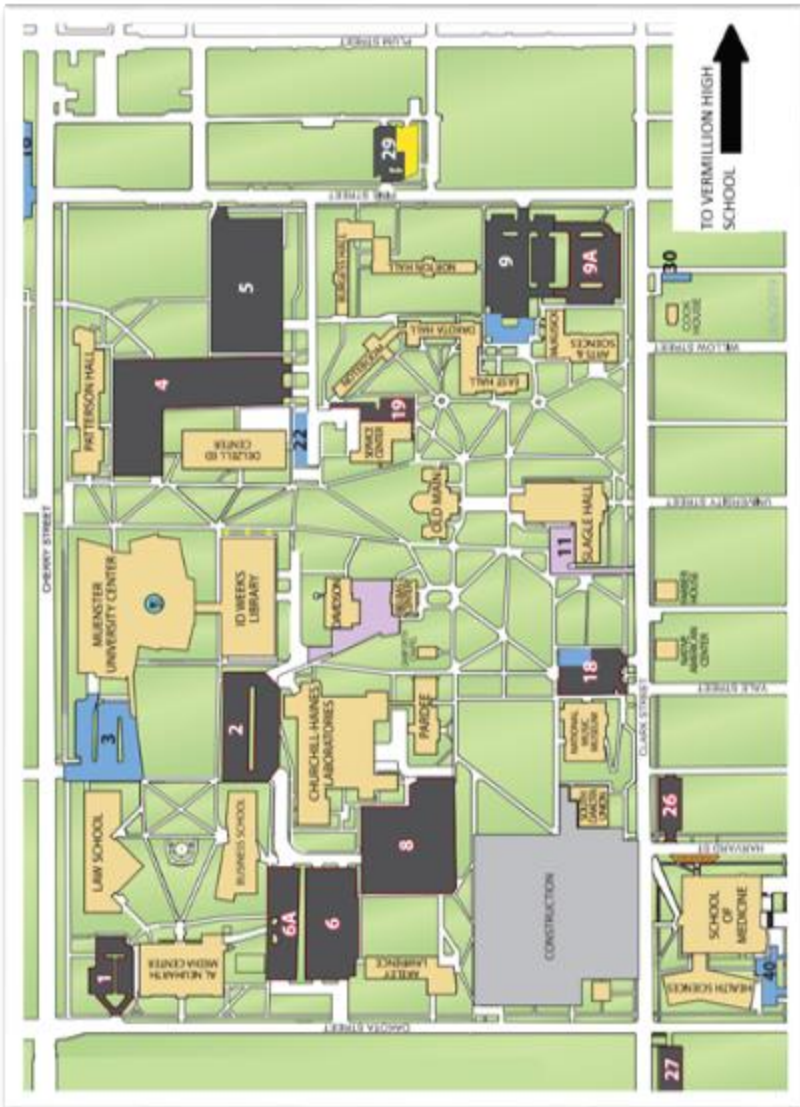
Admissions Office
College of Arts and Sciences
Department of Biology
Department of Chemistry
Department of Computer Science
Department of Health Sciences
Department of Mathematical Sciences
Department of Military Science

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

Campus Map & Parking



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



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

State Tournament Event Supervisors

Division B Events	Division C Events	Event Supervisor
Bio Process Lab	Cell Biology	Laura Dixon (BPL) Karen Koster (CB)
Experimental Design	Experimental Design	Susan Anderson
Forestry	Forestry	Mark Dixon
Can't Judge a Powder	Chemistry Lab	Grigoriy Sereda (CPJ) David Hawkinson (CL)
Crime Busters	Environmental Chem.	James Hoefelmeyer (EC) Andrew Sykes (CB)
n/a	Forensics	Kadal Mariappan
Codebusters	Codebusters	Rod Rizk
Sounds of Music	It's About Time	Eric Mosterd (SoM) Carrie Minnette (IAT)
Wheeled Vehicle	Fermi Questions	Kevin Reins (WV)
Write It Do It	Write It Do It	Isaiah Cohen "Yesh"
Fast Facts	n/a	School of Education
Bridge	Bridge	Gabriel Picioroaga
Flight	Flight	Yuhlong Lio
n/a	Scrambler	DavVan Perseum
Anatomy & Physiology	Anatomy & Physiology	Barb Goodman
Disease Detectives	Disease Detectives	Taylor Soderling
Solar System	Astronomy	Jing Liu
Crave The Wave	Detector Building	Varun Vaidya (CtW) Dongming Mei (DB)
Storm the Castle	Trajectory	Mathbar Raut
Roller Coaster	Wifi Lab	Dr. Sun (RC) Perry Siehen (WFL)
Dynamic Planet	Dynamic Planet	Mark Sweeney
Green Generation	Green Generation	Meghann Jarchow
Road Scholar	Remote Sensing	Jennifer Fierro Ranjeet John
Rocks and Minerals	Rocks and Minerals	Brennan Jordan
Meteorology	n/a	Brennan Jordan

Schedule of Events

Division B	9 am	10 am	11 am	12 pm	1 pm	2pm	
Anatomy & Physiology +	UMS-22A						
Solar System +	UAK-125						
Sounds of Music*	UAS-105/106						
Codebusters +		TBA					
Disease Detectives +		UMS-15					
Road Scholar +		UAK-209					
Bio Process Lab +			UCL-146				
Crime Busters +			UPL-208				
Rocks & Minerals +			UAK-209				
Can't Judge a Powder				UAK-207			
Dynamic Planet +				UAK-208			
Fast Facts				UED-110			
Green Generation +					UCL-154		
Meteorology +					UAK-209		
Write it, Do it+					UP-200/202		
Crave The Wave +						UAK-115	
Experimental Design +						UCL-151	
Forestry						UCL-145	
Bridge *	Impound	UP-222	Self-Schedule				
Storm the Castle *	Impound	VHS Gym					
Wheeled Vehicle*	Impound	VHS Gym					
Flight		VHS Gym					
Roller Coaster*	Impound	UCL 118					

UAK Akeley-Laurence Science Center
UAS Arts & Sciences
UB Beacom Hall
UCL Churchill-Haines Laboratories
UED Delzell Education center
UMS Lee Medicine Building

+ Must be present at start time

* Impound required

Schedule of Events

Division C	9 am	10 am	11 am	12 pm	1 pm	2 pm			
Anatomy & Physiology +	UMS-15								
Fermi Questions	UED-110								
Forensics+	UPL-208								
Rocks & Minerals +	UAK-209								
Astronomy +		UAK-125							
Codebusters +		TBA							
Forestry		UCL-145							
Chemistry Lab +			UAK-207						
Disease Detectives +			UMS-15						
Wifi Lab +			UP-226						
Detector Building +				UAK-115					
Dynamic Planet +				UAK-208					
Green Generation +				UCL-154					
It's About Time *	Impound				UP-119/120				
Remote Sensing +					UAK-209				
Write It, Do It +					UP-225/226				
Cell Biology+						UCL-146			
Environmental Chem.+						UPL-103			
Experimental Design +						UCL-152			
Bridge*	Impound	UP-222	Self-Schedule						
Flight		VHS Gym							
Scrambler *	Impound	UP Hall					Impound	In UP-117	
Trajectory *	Impound	VHS Gym							

UOM Old Main
UPL Pardee Laboratory
UP Patterson Hall
USL Slagle Hall
UWC Wellness Center
VHS Gym Vermillion High School