

# COLORADO SCIENCE OLYMPIAD



*Exploring the World of Science*

## SOUTHERN REGIONAL

CSU-P, Colorado State University, Pueblo  
PUEBLO, COLORADO

February 29, 2020



## Southern Regional Operating Committee

<b>Ms. Abby Davidson</b> <b>Tournament Director</b> CSU-Pueblo, Science Learning Center, CBASE	<b>Dr. Rick Kreminski</b> CSU-Pueblo	<b>Ms. Sharon Knight-Lewis</b> U.S. Air Force Academy
<b>Ms. Kelly Bell</b> School District D11	<b>Dr. Dave Lehmpuhl</b> CSU-Pueblo	<b>Dr. John R. Reinert</b> IEEE
	<b>Dr. Allan Nolan</b> Otero Junior College	

## Colorado Science Olympiad Board of Directors

<b>Dr. Allan Nolan, President</b> Otero Junior College	<b>Mr. Tim Lundt</b> <b>State Tournament Director</b> Cheyenne Mountain H.S.	<b>Mr. Steven Lovaas, Treasurer; Immediate Past President</b> Colorado State University
<b>Ms. Abby Davidson</b> <b>Southern Region Director</b> CSU-Pueblo, Science Learning Center, CBASE	<b>Ms. Mary Klass</b> <b>Northern Region Co-Director</b> Poudre School District	<b>Mr. Jesse Oswald</b> <b>Northern Region Co-Director</b> Poudre School District
	<b>Dr. John R. Reinert</b> IEEE	

## 2020 SCIENCE OLYMPIAD EVENTS

February 29, 2020	Southern Regional, CSU-Pueblo, Pueblo
March 7, 2020	Northern Regional, Fossil Ridge High School, Fort Collins
April 4, 2020	Colorado Finals, Cheyenne Mountain High School, Colorado Springs
May 15-16 2020	National Finals, North Carolina State University, Raleigh North Carolina

## SUPPORTING SPONSORS

**Making the Science Olympiad Possible**

CSU-Pueblo – College of Science and Mathematics			
CSU-Pueblo – Student Services and Enrollment Management			
CSU-Pueblo – CBASE		CSU-Pueblo Marketing and Communication Office	
USAFA	CSU-Pueblo University Library	Pepsi	IEEE
CSU-Pueblo - Provost's Office	Dr. Jim Roukema	CSU-Pueblo - ICR	

**- PROGRAM -**  
**SOUTHERN REGIONAL SCIENCE OLYMPIAD**  
**CSU - PUEBLO**  
**February 29, 2020**

**7:00 – 8:00**    **TEAM REGISTRATION** – Lobby, Occhiato Student Center, CSU-Pueblo

**8:00 – 9:00**    **EVENT IMPOUNDS** – See Event Schedule

**9:00 – 2:50**    **COMPETITION** - See Schedule for Individual Events, CSU Pueblo

**3:00-3:30**      **CLEAN UP** - Team Room Clean Up and Collection of Materials

**3:30 – 4:00**    **AWARDS CEREMONY PRELUDE: Massari Arena**

MUSICAL INTERLUDE – Dance Party, Trivia, and Games – Adam Davidson

**4:00 - 5:30**    **AWARDS CEREMONY: Massari Arena**

Master of Ceremonies - Dr. John R. Reinert, Science Olympiad Committee

Science Olympiad Welcome    Dr. Allan Nolan  
State Director

Welcome to CSU-Pueblo        Abby Davidson  
Southern Regional Tournament Director

Supervisor and Volunteer Recognition

Awards:

Event Awards

Teams Advancing to State Tournament, April 4, Cheyenne Mountain High School

1st, 2nd, 3rd, 4th, 5th Place Team Awards



<b>Division B Participants</b>				
<b>School</b>	<b>Team Name</b>	<b>City</b>	<b>Coach</b>	<b>Tm</b>
Berry Creek MS	Berry Creek Middle School	Edwards	Kendra Anderson, Marjorie Oyler	1
Beulah School of Natural Sciences	Beulah 1	Beulah	Sarah Dugal	2
Beulah School of Natural Sciences	Beulah 2	Beulah	Sarah Dugal	3
Cheyenne Mountain JH	Cheyenne Mountain JH	Colorado Springs	Jonathan Ogg	4
Colorado Military Academy	CMA	Colorado Springs	Kim Sommer	5
Connect Charter School	Connect 1	Pueblo	Amanda Bohl	6
Connect Charter School	Connect 2	Pueblo	Amanda Bohl	7
Corwin International Magnet School	CIMS	Pueblo	Thomas Murray	8
Eagle Valley	Eagle Valley Middle School	Eagle	Marjorie Oyler, Torrie Jones	9
Eagleview MS	Eagleview MS	Colorado Springs	Debbie Saccoliti	10
Golden View Classical Academy	GVCA	Golden	Karin Jackson	11
Gunnison	Gunnison Middle School	Gunnison	Gina Pollard	12
Homeschool Science Colorado	JV-B	Colorado Springs	Cindy Puhek	13
Homeschool Science Colorado	Varsity B	Colorado Springs	Cindy Puhek	14
Homestake Peak School	HPS	Avon	Laura Berryman	15
Lewis-Palmer	LPMS 1	Monument	Marjorie Oyler	16
Lewis-Palmer	LPMS 2	Monument	Michael Bunko	17
Platte River Academy	Platte River Academy #1	Highlands Ranch	Michael Bunko	18
Platte River Academy	Platte River Academy #2	Highlands Ranch	Mike Willsea	19
Sabin	Sabin Middle School	Colorado Springs	Jeannie Meredith	20
Timberview	Blue	Colorado Springs	Barry Schneiderman	21
Timberview	Silver	Colorado Springs	Stephanie Montavon	22
Timberview	Wolves	Colorado Springs	Stephanie Montavon	23
West	West Middle School	Colorado Springs	Jean Hagerman	24

### **SERVICES**

**Food:** Starbucks @ Library (LARC), 7:45am-4pm  
Einstein Bagel @ Occhiato Student Center (OSC), 7:45am-4pm  
Campus Cafeteria @ OSC, Brunch Served 10:30am-1:30pm

**Registration Desk:** Occhiato Student Center (OSC), Lobby, 7-9am

**Retail:** Bookstore, Occhiato Student Center (OSC), 10am-2pm  
**Emergency Phone:** 719-549-2373

### Division C Participants

School	Team Name	City	Coach	Tm
Alamosa	AHS	Alamosa	Erika Henderson, Kerry Adams	1
Buena Vista	BVHS	Buena Vista	Steve Kuennen	2
Centennial	Centennial High School	Pueblo	Cheryl Farrer	3
Cherry Creek	Team Blue	Greenwood Village	Christine Garcia	4
Cherry Creek	Team Green	Greenwood Village	Christine Garcia	5
Cherry Creek	Team Red	Greenwood Village	Christine Garcia	27
Cheyenne Mountain	CMHS Indians	Colorado Springs	Tim Lundt	6
Cheyenne Mountain	CMHS Maroon	Colorado Springs	Tim Lundt	7
Cheyenne Mountain	CMHS White	Colorado Springs	Tim Lundt	8
Discovery Canyon Campus	DCC-HS	Colorado Springs	Terrie Watts	9
Doherty	DHS SO	Colorado Springs	Amy Robinette	10
Gunnison	Gunnison High School #1	Gunnison	Maria Kattnig	11
Gunnison	Gunnison High School #2	Gunnison	Maria Kattnig	12
Homeschool Science Colorado	C-Team	Colorado Springs	Cindy Puhek	13
Lewis-Palmer	Lewis Palmer High School 1	Monument	Deb Thompson	14
Lewis-Palmer	Lewis Palmer High School 2	Monument	Mary Gregory	15
Palmer Ridge	Bazinga	Monument	Jillian Johnson	16
Palmer Ridge	Q	Monument	Leslie Lantz	17
Rampart	Rampart 1	Colorado Springs	Joseph Gerstenschlager	18
Rock Canyon	RCHS 1	Highlands Ranch	Kerry Hinton	19
Rock Canyon	RCHS 2	Highlands Ranch	Matt Gracey	20
Rock Canyon	RCHS 3	Highlands Ranch	Matt Gracey	21
Salida	Salida High School	Salida	Chelsea Carpenter	22
Widefield	Widefield HS #1	Widefield	Suzanne Carmody	23
Widefield	Widefield HS #2	Widefield	Suzanne Carmody	24
William J. Palmer	Palmer High School	Colorado Springs	Andrea Sutela, Carolyn Derr	25
Woodland Park HS	Woodland Park Panthers	Woodland Park	Thomas Torrance	26

## Event Supervisors

<b>Event</b>	<b>Supervisor</b>	<b>Affiliation</b>
Anatomy & Physiology - B & C	Annette Gabaldon & Paul Brown	CSU-Pueblo
Astronomy - C	Dave Furry	Retired
BooMilever - B & C	John Linck	UTC
Chemistry Lab - C	Nate Erickson & Keshon Jackson	CSU-Pueblo
Circuit Lab - B & C	Lei Marquez & Max Sheedy	CSU-Pueblo
Codebusters - C	Rick Kreminksi & Anne Casey	CSU-Pueblo & Pueblo Zoo
Crime Busters - B	Savannah Sachsenmaier, Rick Farrer & Teyah Schiffer	UNC Greeley & CSU-Pueblo
Density Lab - B	Joe Hasse	CU Boulder
Designer Genes - C	Mariah Painter & Morgan Mohalla	CSU-Pueblo
Detector Building - C	Jim Bell, Cameron Collins, Sean Regalado-Love	SAIC & CSU-Pueblo
Disease Detectives - B & C	Kathy Nelson & Jillian Manikoff	PCAPP
Dynamic Planet - B & C	Pete Modreski, Jane Dianich & Darien Brown	USGS, Educator, CSU-P
Elastic Launched Gliders - B	Eric Stephen	USAF
Experimental Design - B & C	James Hanafée & Laina Heacock	Colorado College
Food Science - B	Jonathan Velasco	CSU-Pueblo
Forensics - C	Savannah Sachsenmaier, Rick Farrer & Teyah Schiffer	UNC Greeley & CSU-Pueblo
Fossils - B & C	Junesse Farley & Lee Anne Martinez	Lapidary & CSU-Pueblo
Game On - B	Adam Pocius & Frank Milavec	CSU-Pueblo
GeoLogic Mapping - C	Jay Temple	Self-Employed
Gravity Vehicle - C	Bahaa Ansaf	CSU-Pueblo
Heredity - B	Mariah Painter & Morgan Mohalla	CSU-Pueblo
Machines - B & C	Przemek Rakoczy & Chandler Sparks	TTCI & CSU-Pueblo
Meteorology - B	Klink Skelly & Brad Carlberg	NOAA
Mission Possible - B	Guy Mendel & Trung Duong	CSU-Pueblo
Mousetrap Vehicle - B	Mike McHenry, Nicole McHenry & Jorge Medina	TTCI, FFCHS, KMG
Ornithology - B & C	Claire Ramos & Diego Duran	CSU-Pueblo
Ping Pong Parachute - B & C	Pam Neal & Scott Neal	Sky Beam
Protein Modeling - C	Jordan Steel & Jeremy Van Driessche	USAF
Reach for the Stars - B	Dave Furry	Retired
Road Scholar - B	Steve Reiter	USGS
Sounds of Music - C	David Clair & Tobi Oloyede	CSU-Pueblo
Water Quality - B & C	Nate Bickford, Samantha Ulrich & Makenzie Randall	CSU-Pueblo
Wright Stuff - C	John McGrath	Lewis Palmer HS
Write It Do It - B & C	Kelly Bell, Derrick Williams	School D11, CSU-Pueblo
<b>Scoring</b>	Ken Schmitt	Broadcom

# Colorado Science Olympiad: Southern Regional, February 29, 2020

Competition Events	Div	Supervisor	Location	8:-8:50	9-9:50	10-10:50	11-11:50	12-12:50	1-1:50	2-2:50
Anatomy & Physiology	B/C	Annette Gabaldon, Paul Brown	LS 202		B1	B2	B3	C1	C2	C3
Astronomy	C	Dave Furry	PM 103					C1	C2	C3
Boomilever	B/C	John Linck	Massari		Self Schedule					
Chemistry Lab	C	Nate Erickson, Keshon Jackson	CHEM 313					C2	C3	C1
Circuit Lab	B/C	Lei Marquez, Max Sheedy	PM 133		B1	B2	B3	C1	C2	C3
Codebusters	C	Rick Kreminksi, Anne Casey	PM 112		C1	C2	C3			
Crime Busters	B	S. Sachsenmaier, R. Farrer, T. Schiffer	CHEM 305					B1	B2	B3
Density Lab	B	Joe Hasse	PM 121					B2	B3	B1
Designer Genes	C	Mariah Painter, Morgan Mohalla	LS 203					C2	C3	C1
Detector Building	C	J. Bell, C. Collins, S. Regalado-Love	LS 238		Self Schedule					
Disease Detectives	B/C	Kathy Nelson, Jillian Manikoff	LS 105		C1	C2	C3	B3	B1	B2
Dynamic Planet	B/C	P. Modreski, J. Dianich, D. Brown	LS 116		B2	B3	B1	C2	C3	C1
Elastic Launched	B	Eric Stephen	Massari		Self Schedule					
Experimental Design	B/C	James Hanafee, Laina Heacock	CHEM 408		C2	C3	C1	B1	B2	B3
Food Science	B	Jonathan Velasco	CHEM 304		B3	B1	B2			
Forensics	C	S. Sachsenmaier, R. Farrer, T. Schiffer	CHEM 305		C3	C1	C2			
Fossils	B/C	Junesse Farley, Lee Anne Martinez	CHEM 204		C3	C1	C2	B2	B3	B1
Game On	B	Adam Pocius, Frank Milavec	LARC 217		B3	B1	B2			
Geologic Mapping	C	Jay Temple	LS 214		C2	C3	C1			
Gravity Vehicle	C	Bahaa Ansaf	OSC Ballroom	Impound	Self Schedule					
Heredity	B	Mariah Painter, Morgan Mohalla	LS 203		B2	B3	B1			
Machines	B/C	Przemek Rakoczy, Chandler Sparks	LS 103	Impound	B2	B3	B1	C3	C1	C2
Meteorology	B	Klink Skelly, Brad Carlberg	GCB 201					B3	B1	B2
Mission Possible	B	Guy Mendel, Trung Duong	TECH 130	Imp (STATE)	Self Schedule					
Mousetrap Vehicle	B	M. McHenry, N. McHenry, J. Medina	OSC Ballroom	Impound	Self Schedule					
Ornithology	B/C	Claire Ramos, Diego Duran	LS 119		C1	C2	C3	B1	B2	B3
Ping Pong Parachute	B/C	Pam Neal, Scott Neal	Massari		Self Schedule					
Protein Modeling	C	Jordan Steel, Jeremy Van Driessche	CHEM 221	Impound				C3	C1	C2
Reach for the Stars	B	Dave Furry	PM 103		B3	B1	B2			
Road Scholar	B	Steve Reiter	GCB 211		B1	B2	B3			
Sounds of Music	C	David Clair, Tobi Oloyede	GCB 212		Self Schedule					
Water Quality	B	N. Bickford, S. Ulrich, M. Randall	LS 228					B2	B3	B1
Water Quality	C	N. Bickford, S. Ulrich, M. Randall	LS 232					C3	C1	C2
Wright Stuff	C	John McGrath	Massari		Self Schedule					
Write It Do It	B/C	Kelly Bell, Derrick Williams	TECH 231/232		C3	C1	C2	B3	B1	B2

**Awards Ceremony 4-5:30pm Massari Arena**



# Colorado Science Olympiad Southern Regional Tournament Saturday February 29<sup>th</sup> 2020



## Physics/Math (PM)

- 103 - Reach for the Stars (am)
- 103 - Astronomy (pm)
- 112 - Codebusters
- 121 - Density Lab
- 133 - Circuit Lab

## Life Science (LS)

- 103 - Machines
- 105 - Disease Detectives
- 116 - Dynamic Planet
- 119 - Ornithology
- 202 - Anatomy & Physiology
- 203 - Heredity (am)
- 203 - Designer Genes (pm)
- 214 - GeoLogic Mapping
- 228 - Water Quality (B)
- 232 - Water Quality (C)
- 238 - Detector Building

## Chemistry (CHEM)

- 204 - Fossils
- 221 - Protein Modeling
- 304 - Food Science
- 305 - Forensics (am)
- 305 - Crime Busters (pm)
- 313 - Chemistry Lab
- 408 Experimental Design

## Library (LARC)

- Lobby - Starbucks Café (7:45am-4pm)
- 217 - Game On

## General Classroom Building (GCB)

- 201 - Meteorology
- 211 - Road Scholar
- 212 - Sounds of Music (exam)
- 213 - Sounds of Music (device)

## Occhiato Student Center (OSC)

- Lobby - Team Check In ★
- Retail - Bookstore (10am-2pm)
- Dining - Einstein Bagel (7:45am-4pm)
- Dining - Cafeteria (10:30am-1:30pm)
- Ballroom - Gravity Vehicle
- Ballroom - Mousetrap Vehicle

## Massari Arena (PE)

- Boomilever
- Elastic Launched Glider
- Ping Pong Parachute
- Wright Stuff

## Technology (T or TECH)

- 130 & 132 - Mission Possible
- 231 & 232 - Write It Do It

## Parking

- W-1, W-2, W-3, N-2, N-4

## Awards Ceremony

- 4-5:30pm Massari Arena

## Wi-Fi

- Network: Science Olympiad
- Password: W3lc0m32CSUP2020!

