The 2023 Southern Nevada High School Chemistry Poster Contest

“The Healing Power of Chemistry”

Sponsored by the Southern Nevada Section of the American Chemical Society
American Chemical Society

Southern Nevada High School Poster Contest
Founded in 2011: “The International Year of Chemistry”

Saturday
December 02, 2023

Hosted at the Marjorie Barrick Museum of Art
Las Vegas, Nevada
The American Chemical Society

• Over 155,000 members worldwide

• One of the Largest Scientific Organization in the World

• Every member gets Chemical and Engineering News – A weekly publication from ACS
SHOWCASING CHEMISTRY

Through its annual **POSTER CONTEST**, the ACS Southern Nevada Section inspires students to explore the power of chemistry

**SUSAN J. AINSWORTH, C&EN DALLAS**

**IF YOU’RE A FAN** of the idea of promoting science through art, you may be intrigued by a burgeoning program set up by the American Chemical Society’s Southern Nevada Section.

When brainstorming imaginative ways to celebrate the International Year of Chemistry in 2011, the section decided to sponsor a chemistry-themed poster contest for area high school students. Not only was the competition successful from the get-go, but it has now morphed into an annual event that continues to influence the local community.

Currently gearing up for its third year, the contest has inspired talented young artists to produce posters that vividly illustrate concepts such as basic chemical principles and chemistry’s broad application in fields as diverse as pharmaceuticals and alternative energy. Most important, it has served as an effective outreach tool, drawing interest from students who might not otherwise ponder the power and benefits of chemistry, observes Roger Rennels, the section’s public relations chair, who came up with the contest idea.

As the section set out to launch the contest in 2011, it drew heavily on the resources of the local public school district. The Clark County School District’s School-Community Partnership Program and its assistant director, Judy
Myers, provided critical guidance and help implementing the project. For example, Myers encouraged the section to limit the contest to high school students to control costs, and she provided information about successful contests held in the district in the past, which helped the section structure its poster contest and define its rules.

More specifically, Myers advised the section to offer cash prizes, for students as well as for the teachers who sponsor the winning posters, as a way to maximize the number of contest entrants, Rennels says. More than 200 students participated in 2012. First-place student winners receive $500, and second- and third-place finishers get $250 and $100, respectively. In addition, each sponsoring teacher wins half of the amount that his or her student receives.

In addition, in 2012, the top eight student runners-up each received $25 gift cards, which were donated by VWR International, a laboratory supply and distribution company.

Rennels, along with fellow Southern Nevada Section executive committee members Onofrio (Dick) Gaglione and Kazumasa (Kaz) Lindley, serves as a judge for the contest.

To further enhance its outreach power during the most recent awards ceremony, the section invited undergraduate and graduate students to present research posters that they had entered in another contest the section sponsors, Rennels says. Through this effort, he explains, “we wanted to share the high school students’ posters with the greater chemical community in southern Nevada, and we wanted the high school students to see how the college students’ posters are used to convey scientific knowledge.”

Rennels believes that the high school poster contest has been effective in sparking curiosity about chemistry among students. Recently, an art teacher told him that many of her students who were participating in the contest frequently went across the hall to talk with the chemistry teacher about chemistry. “And that,” Rennels says, “is something many of these students would never have done if not for this contest.”

See more of the dynamic, chemistry-focused posters that garnered contest honors at http://cenm.ag/poster.
Runner Ups
Jordynn Thomas
Healthy skin, for the win!

Advanced Technologies Academy
(Kevin Chung)
Emi White
The Healing Power of Chemistry

Green Valley High School
(Clayton Stewart)
Kai Fujii

THE HEALING POWER OF CHEMISTRY

Hydrogen peroxide and QuikClot Combat Gauze are two extremely important products that help those injured in war survive until they can be further treated.

Advanced Technologies Academy
(Edwin Cruz)
Fiberglass casts are designed to help support the bone and keep it in place so the body can fix it and recover properly.

Cotton and stockinette fabric is used to cushion the injured body part and prevent irritation and relieve chafing.
Kimberly Garcia Hernandez
The superhero vaccine

Covid Be Gone!

Advanced Technologies Academy
(Edwin Cruz)
FACT # 26: Iron is a very important element for our health.
Hua Jenna
Fighting Disease with Vaccines

Chemistry Heals!

Covid-19 Vaccine
PF-07304814

Advanced Technologies Academy (Edwin Cruz)
Third Place

Kara Audlee

Advanced Technologies Academy
( Kevin Chung)
The Wonders Of Vitamins

Vitamin A (Retinol)
- Protects the eye's cornea and helps with normal vision.

Vitamin C (L-Ascorbic Acid)
- Helps with healing wounds.

Vitamin B2 (Riboflavin)
- Helps with metabolizing carbohydrates and fats.

Vitamin D (Calciferol)
- Helps the body absorb calcium, building stronger bones.

Vitamin K (Phytonadione)
- Helps prevent blood from clotting.
Second Place

Emma Kearney

Advanced Technologies Academy
(Kevin Chung)
Fast or Slow Chemistry Makes It Go!

The Power of Pills!

THE HEALING POWER OF CHEMISTRY

Epinephrine
- Relaxes muscles in the airways by tightening blood vessels (used for extreme allergic reactions)

Diphenhydramine
- Reduces the action of a substance that causes sneezing, watery eyes, and a runny nose

Ibuprofen
- Stops the body's production of a substance that causes fever and pain

Acetaminophen
- Reduces fever
- Moderate pain relief

The Power of Pills!
First Place

Chance Belcher

Advanced Technologies Academy

(Edwin Cruz Munoz)
Chemistry Heals All

Anesthesia

Amoxicillin

D,L-lactide-co-CA prolactone

Chemistry Heals All
Acknowledgements

- CCSD School-Community Partnership Program – Jeniffer Calimbahin

- All the high school students and teachers at the Clark County School District who participated in this event

- Executive Committee of the Southern Nevada Section of the American Chemical Society
2023 Southern Nevada Section Executive Committee:

- Chair – Rampur Viswanath
- Chair-Elect – Rampur Viswanath
- Immediate Past-Chair – Roger Rennels
- Treasurer – Kazumasa Lindley
- Secretary – Erica Marti
- Councilor – Kazumasa Lindley
- Alternate Councilor – Roger Rennels
- Member-at-Large – Jeremy Cho
- Member-at-Large – Anthony Harrington
- Western Regional Board Representative – Rampur Viswanath
2024 Southern Nevada Section Executive Committee:

- Chair – Rampur Viswanath
- Chair-Elect – David Ferrari
- Immediate Past-Chair – Rampur Viswanath
- Treasurer – Erica Marti
- Secretary – Julie Bertoia
- Councilor – Roger Rennels
- Alternate Councilor – Rampur Viswanath
- Member-at-Large – Anthony Harrington
- Member-at-Large – Julie Bertoia
- Western Regional Board Representative – Rampur Viswanath
Thank you:

UNLV
and
The Marjorie Barrick Museum of Art
CHEMISTRY HEALS ALL

ANESTHESIA

Amoxicillin

D,L-LACTIDE-CO-CA PROLACTONE

Chemistry Heals All