

ACS

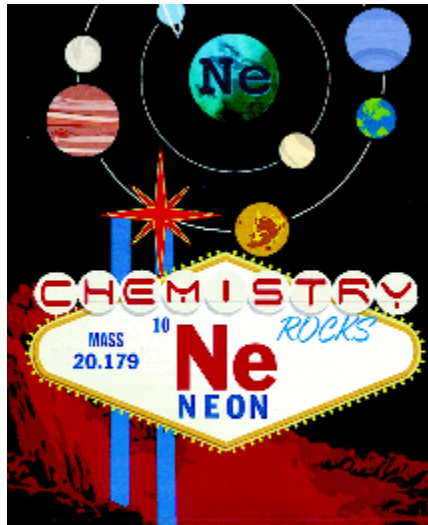
Chemistry for Life®

The American Chemical Society



# The 2018 Clark County School District High School Chemistry Poster Contest “Chemistry is Out of This World”

Sponsored by the Southern  
Nevada Section of the  
American Chemical Society



# The American Chemical Society

- Nearly 157,000 members worldwide
- Largest Scientific Organization in the World
- Every member gets Chemical and Engineering News – A weekly news publication from ACS

# SHOWCASING CHEMISTRY

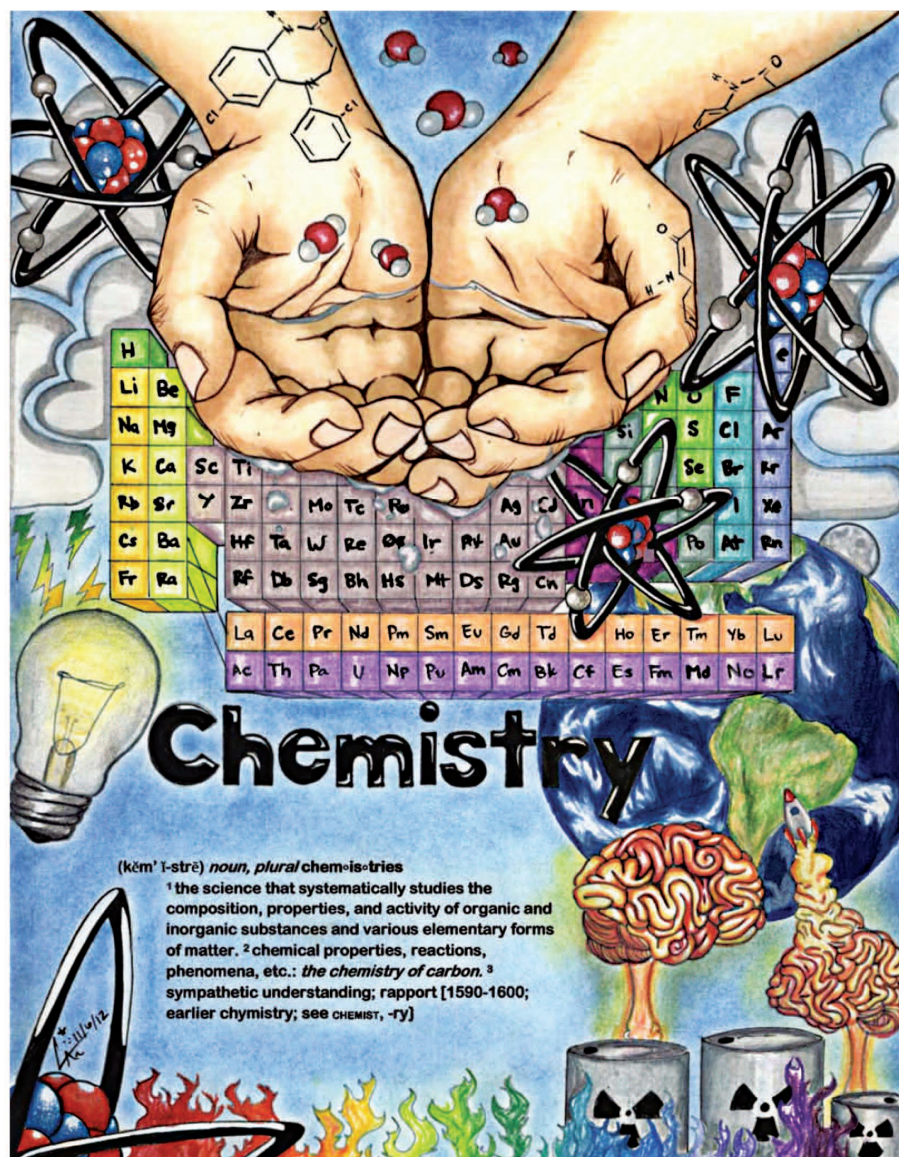
Through its annual **POSTER CONTEST**, the ACS Southern Nevada Section inspires students to explore the power of chemistry

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 an-



nual 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 pharmaceutical

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

**FIRST PLACE**  
 Christy Adaya,  
 grade 12,  
 Shadow Ridge  
 High School,  
 Las Vegas.



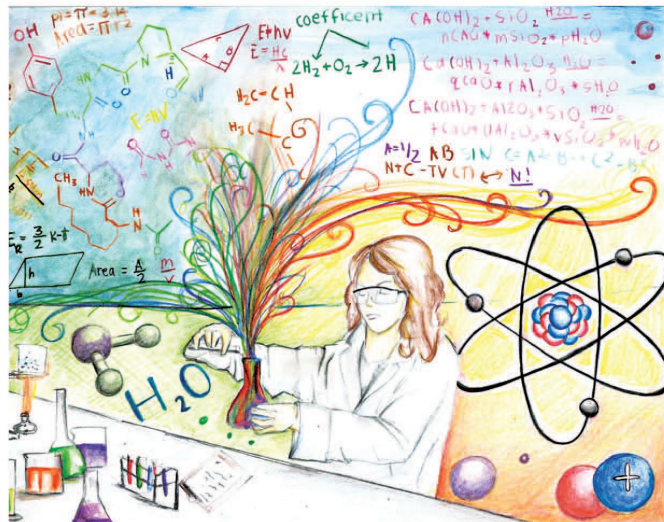
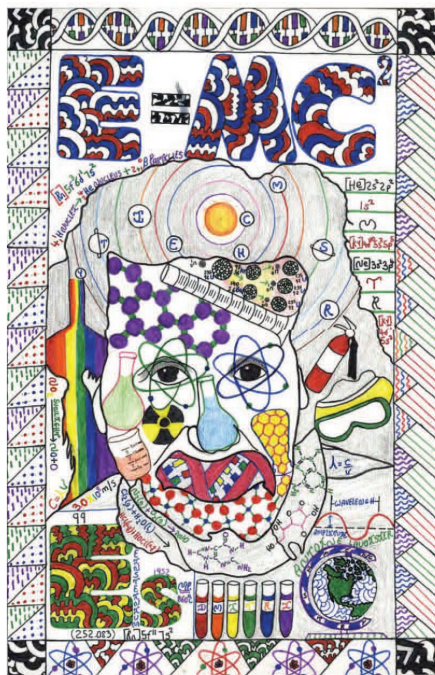
**THIRD PLACE** Rileigh Sorenson, grade 12, Foothill High School, Henderson, Nev.

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

**RUNNER-UP** Yoseph Hobe, grade 10, Rancho High School, Las Vegas.



**RUNNER-UP** Debon Diaz, grade 9, Southeast Career Technical Academy, Las Vegas.

\$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.” ■

**SECOND PLACE** Ashley Armenta, grade 9, Southeast Career Technical Academy, Las Vegas.



**& MORE ONLINE**

See more of the dynamic, chemistry-focused posters that garnered contest honors at <http://cenm.ag/poster>.

# Elisabeth Mast 2015 Runner Up



# Contest Stats:

Since 2011 – (International Year of Chemistry)

- Over 800 HS Students & Teachers
- Over \$10,000 in Prizes

- 2018

14 Different Schools

20 Teachers

117 Entries

Honorable  
Mention

# Isabella Maffeo



CHEMISTRY IS OUT



OF THIS WORLD



Liberty HS  
(John Cress)

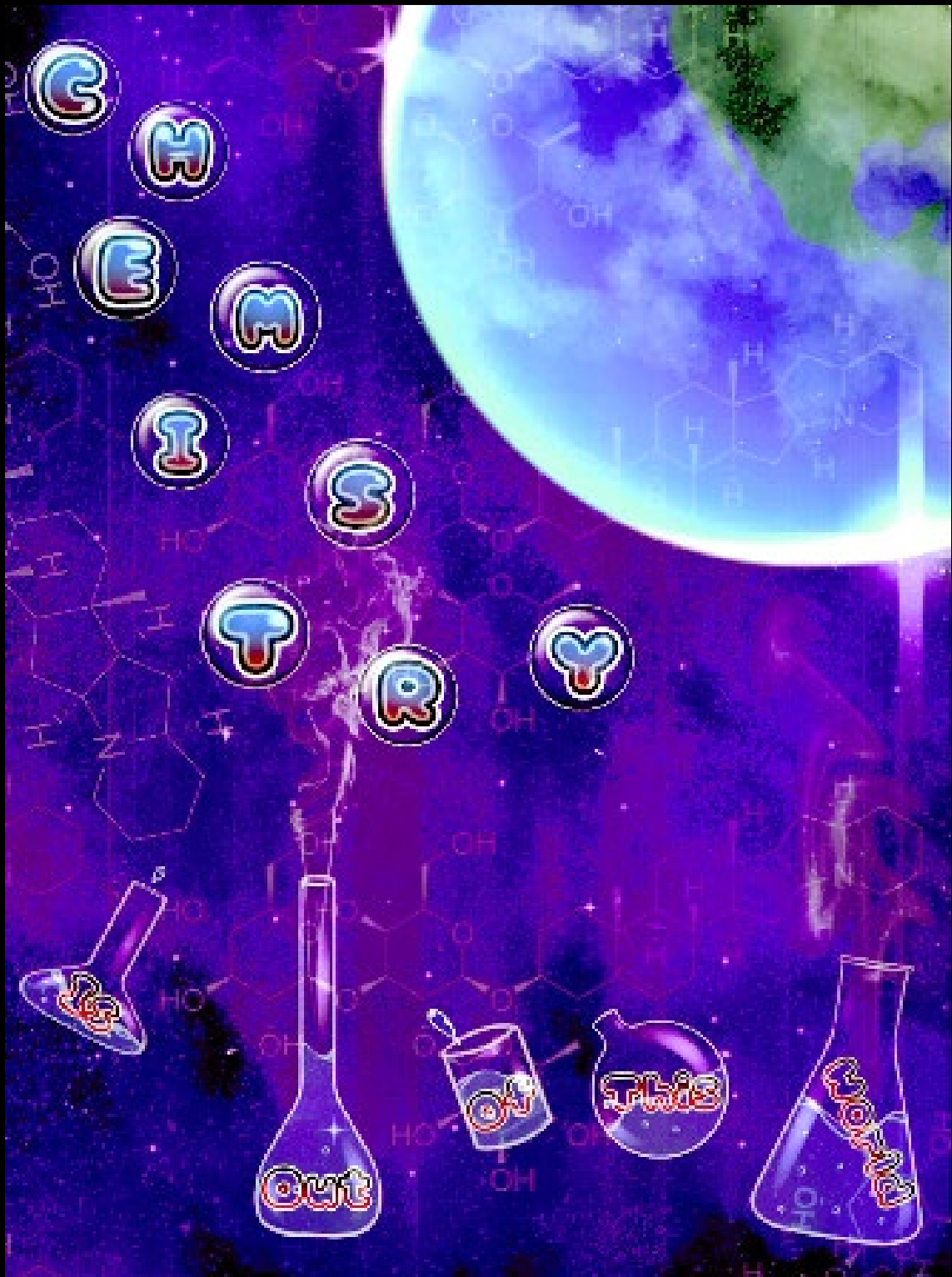


# Paloma Zanabia



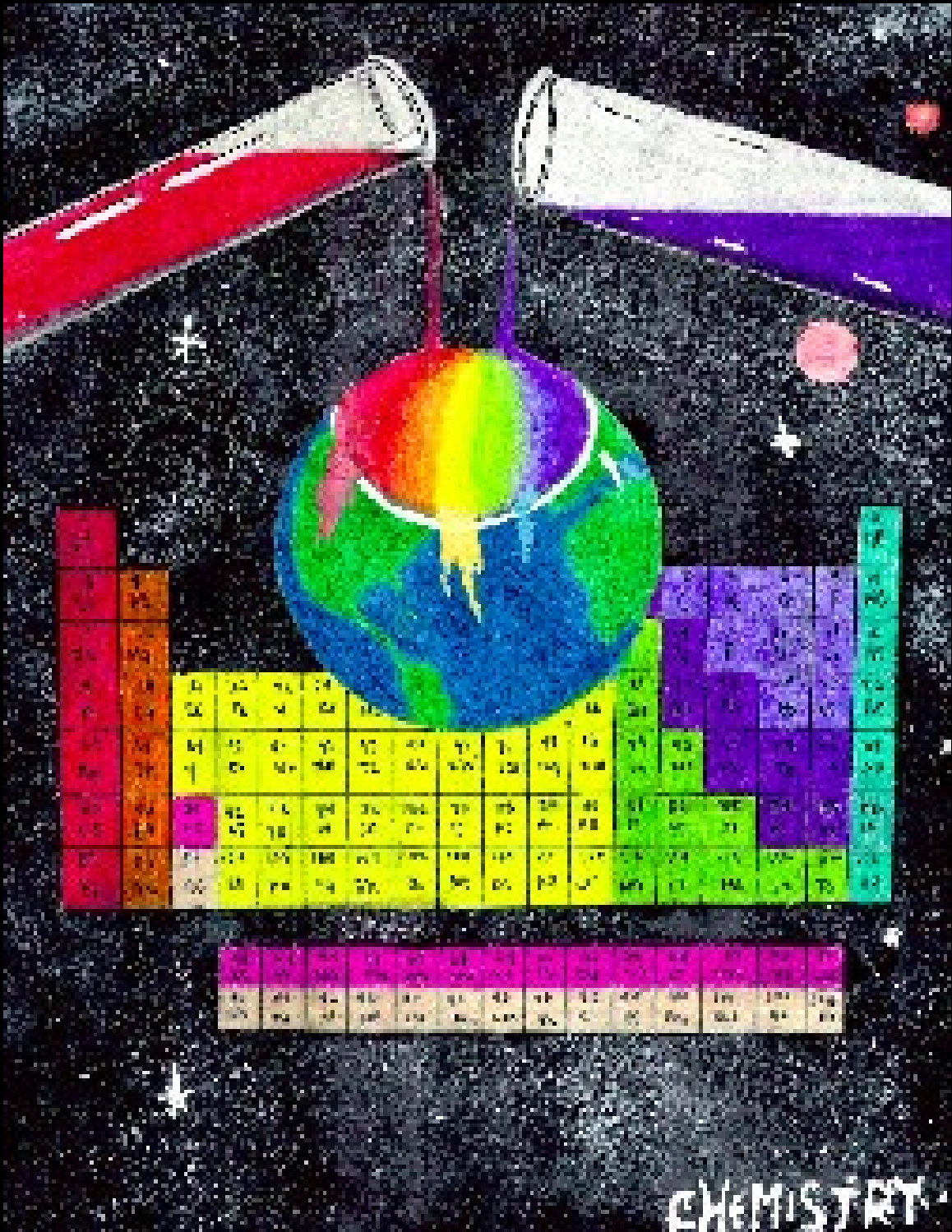
Palo Verde HS  
(Jason Ibarra)

# Nyein Thwe



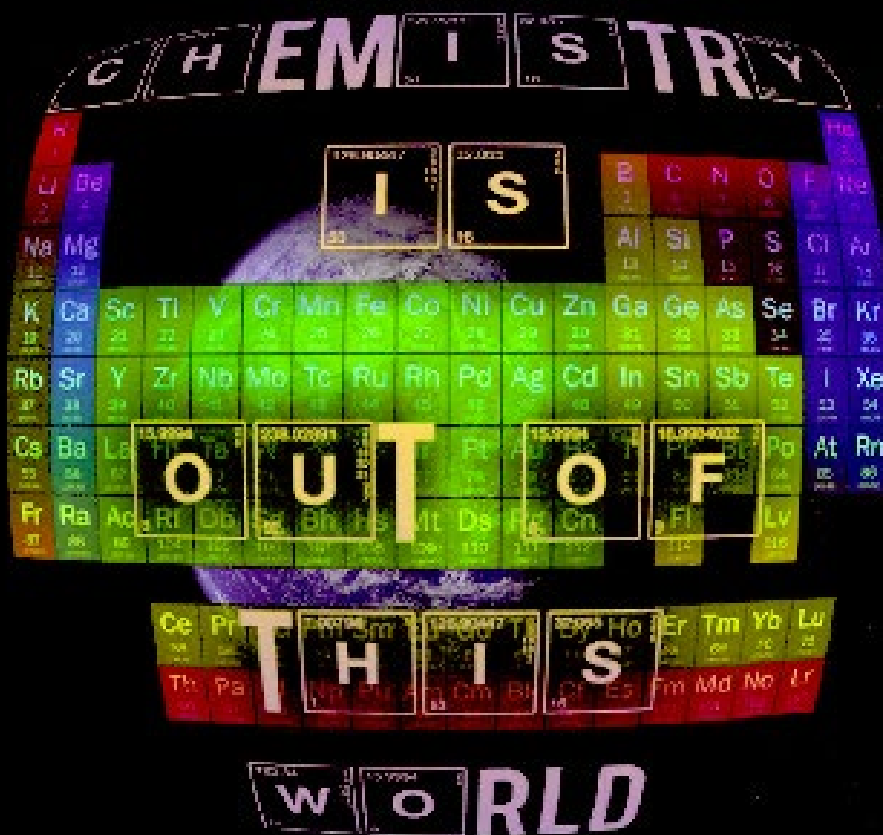
Liberty HS  
(John Cress)

# Kole Burt



Palo Verde HS  
(Jason Ibarra)

# Lorenzo Minosa



Liberty HS  
(John Cress)

# Peverel Shipley

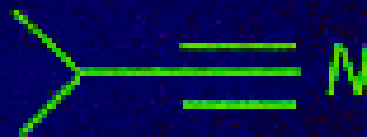
Chemistry is Out  
of this World

Life-bearing chemistry  
found 27,000 light-years  
from Earth.

Scientists at the Max Planck  
Institute for Radio Astronomy  
find **Isopropyl cyanide** in the  
gas cloud Sagittarius B2 in the  
center of the Milky Way.



Molar mass: 59.21 g/mol  
Appearance: Colorless liquid  
Odor: Almond-like  
Melting point:  $-12^\circ\text{C}$   
Boiling point:  $20.9^\circ\text{C}$

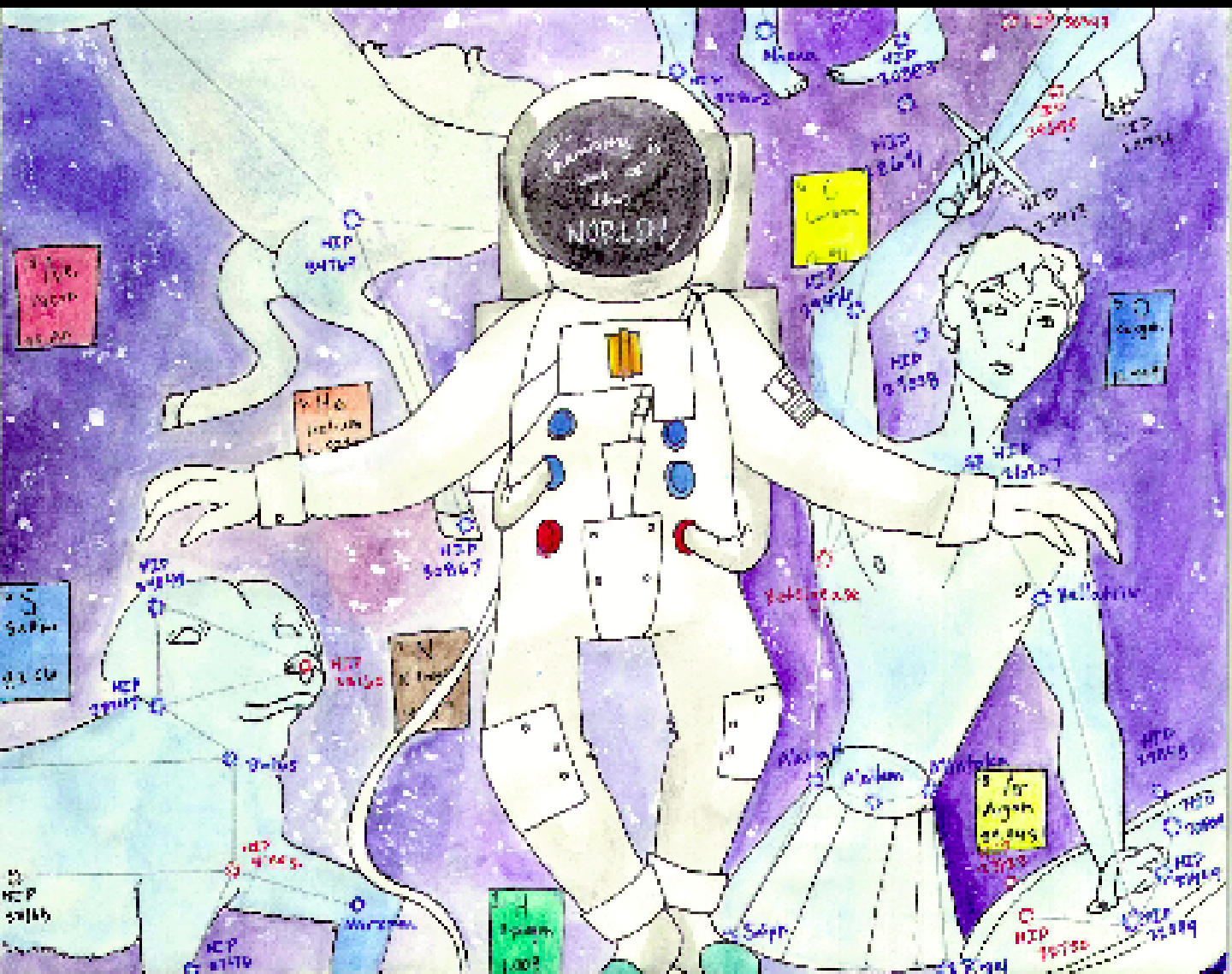


Palo Verde HS  
(Jason Ibarra)



# Runner Ups

# Kalei Navalta

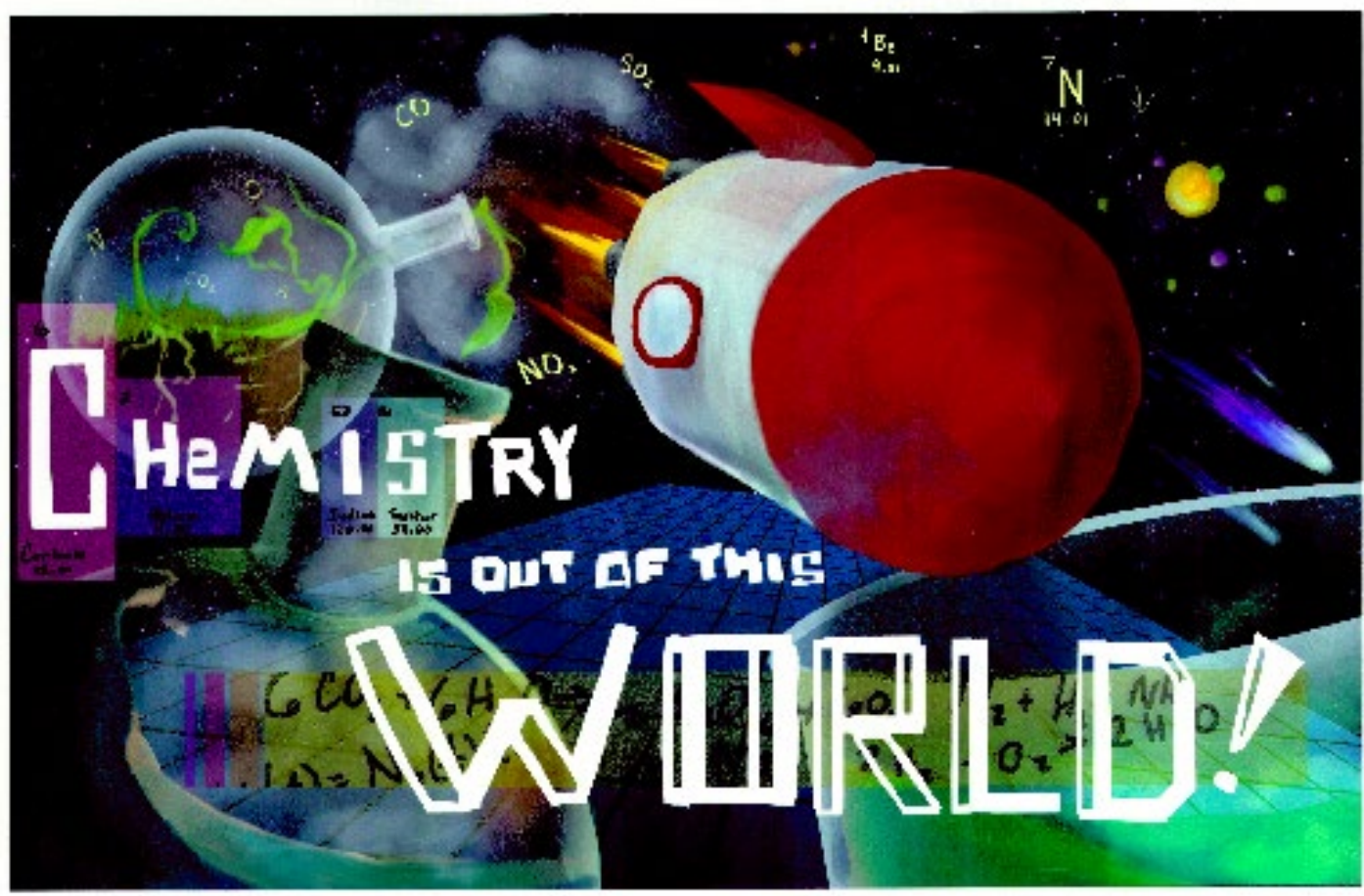


Foothill HS  
(Sarah Eames)





Sophia Chongtai



A-Tech  
(Kevin Chung)

Zika Garcia



Palo Verde HS  
(Thomas Steinline)

Jackson Chan



Sierra Vista  
Kevin Chung

Nancy Phu



A-Tech  
(Kevin Chung)

# Kyle Takeuchi

## HIP-001 Analysis Scan

<b>H</b> Hydrogen 1	<b>C</b> Carbon 6
<b>N</b> Nitrogen 7	<b>O</b> Oxygen 8

### Carbon

Typically found in a 12O or 13O isotope and makes up most of the molecules made up of three elements and compounds such as water, nitrogen, methane, carbon dioxide, ammonia, etc.

<b>H</b> Hydrogen 1	<b>He</b> Helium 2
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### New Sun

This is a low red dwarf star with a mass of 0.08 solar masses. It is a red dwarf star with a surface temperature of 2,500 K. It is a red dwarf star with a surface temperature of 2,500 K. It is a red dwarf star with a surface temperature of 2,500 K.

### HIP 001

HIP 001 is a red dwarf star with a mass of 0.08 solar masses. It is a red dwarf star with a surface temperature of 2,500 K. It is a red dwarf star with a surface temperature of 2,500 K.

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<b>H</b> Hydrogen 1
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<b>O</b> Oxygen 8
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chemistry is out of this world

Liberty HS  
(John Cress)

Mia Lewis



Palo Verde HS  
(Thomas  
Steinline)

Third Place Prize

Christian

Salazar

Valley HS

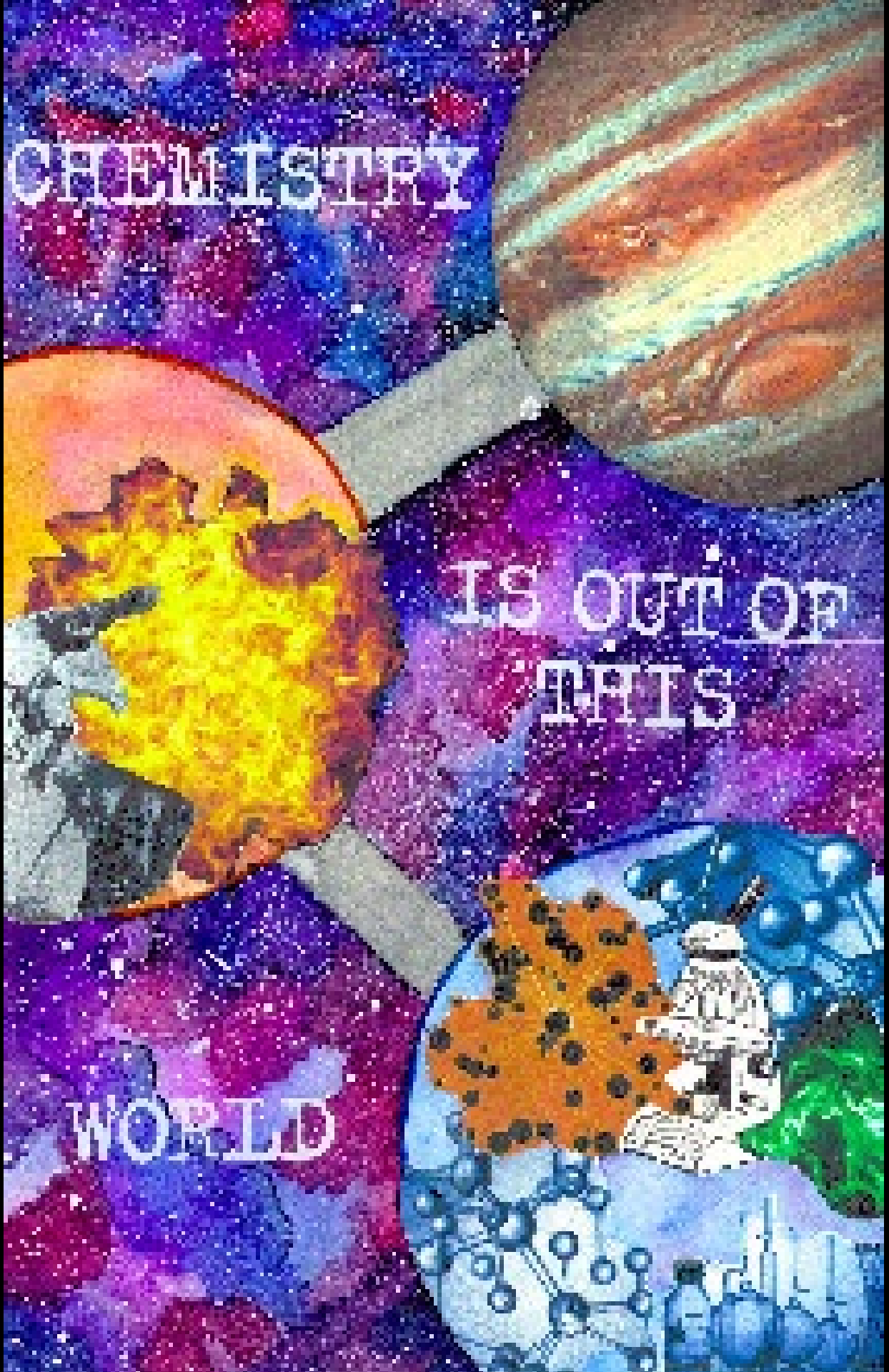
(Zijing Wang)



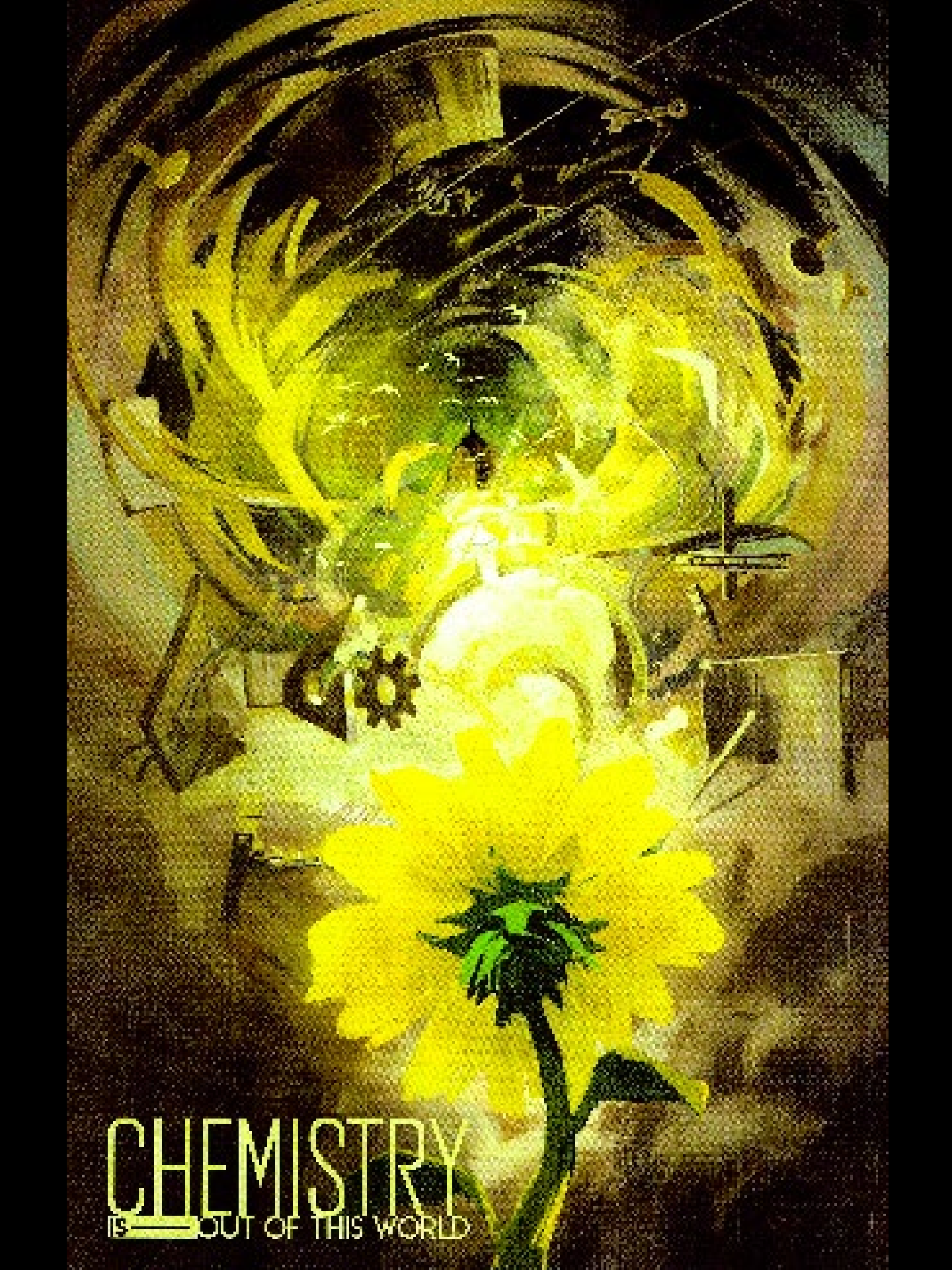
CHEMISTRY

IS OUT OF  
THIS

WORLD



Second Place Prize  
Nhan Nguyen  
A-Tech  
(Kevin Chung)



CHEMISTRY  
IS OUT OF THIS WORLD

First Place Prize

Lucy Lim

Spring Valley HS

(Michael Dambach)

(Eunju Lim)



**Chemists  
of this world!**

# Acknowledgements

## **CCSD School-Community Partnership Program**

- **Cheryl Wagner, Coordinator, and Mary-Jo Teifer**

## **Executive Committee of the Southern Nevada Section of the American Chemical Society**

### **The Judges:**

1. **Roger Rennels**
2. **Marion Hammon**
3. **Mark Garner**
4. **David Batchelor**
5. **Kazumasa Lindley**
6. **Kendra Kimberley**
7. **William Pappa**
8. **Valerie Perry-White**
9. **Dylan Rennels**
10. **Bel Rennels**

### **CSN Facilities – Patricia Prieto**

### **Nevada State College**

- **Andy Kuniyuki, Amber Howerton, Zachary Woydziak**

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



**Chemists  
of this world!**