

**70<sup>th</sup> Annual  
Greater San Diego Science and Engineering Fair**

**2024**


**FIRST AWARDS**

# **First Award**

## **Junior Division**



**First Award - Junior Division**  
**Animal Sciences**

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal lines in shades of green and blue, creating a sense of depth and movement. Interspersed among these lines are vertical columns of small, glowing green characters, resembling binary code (0s and 1s). The overall effect is a futuristic, digital aesthetic.

**First Award - Junior Division**  
**Animal Sciences**

**Grant Alexander**

**La Jolla Country Day School**  
**Advisor: M. Bessler**

**First Award - Junior Division  
Animal Sciences**


**Sydney O'Donnell**

**The Rhoades School  
Advisor: R. Hunker**

CSEF Nominee



**First Award - Junior Division**  
**Behavioral and Social Sciences**

The background of the slide is a dark, almost black, field. It is filled with numerous thin, diagonal lines that create a sense of depth and movement. These lines are primarily in shades of green and blue, with some appearing as bright, glowing streaks. Interspersed among these lines are vertical columns of small, white or light-colored characters, resembling binary code (0s and 1s). The overall effect is a futuristic, digital, or data-driven aesthetic.

**First Award - Junior Division**  
**Behavioral and Social Sciences**

**Princess-Hafsah Aly Saad Aly**

**Bright Horizon Academy**  
**Advisor: N. Naserelddin**

**First Award - Junior Division**  
**Behavioral and Social Sciences**

**Andrea Martinez**

**Nazareth School**  
**Advisor: M. Reed**



**First Award - Junior Division  
Behavioral and Social Sciences**

**Maryam Purmul**

**Bright Horizon Academy  
Advisor: N. Naserelddin**

CSEF Nominee

**First Award - Junior Division**  
**Behavioral and Social Sciences**

**Jake Sarles**

**The Rhoades School**  
**Advisor: R. Hunker**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division  
Behavioral and Social Sciences**

**Bella Schere**

**The Children's School  
Advisor: D. Quincannon**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

# **First Award - Junior Division**

## **Biochemistry**






**First Award - Junior Division**  
**Biochemistry**

**Alejandra Kroes**

**De Portola Middle School**  
**Advisor: M. Bridges**



**First Award - Junior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**

The background of the slide is a dark, abstract composition. It features a series of bright green and blue diagonal lines that create a sense of depth and movement, resembling a perspective view of a digital space. Interspersed among these lines are faint, glowing patterns of binary code (0s and 1s), which are more prominent in the lower half of the image. The overall aesthetic is high-tech and futuristic.

**First Award - Junior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**

**Anabia Ehsan**  
**Omar Abdulaziz**

**Thurgood Marshall Middle School**  
**Advisor: A. Abdurrab**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**

**Emily Diep**

**Connect Academy Poway Unified**  
**Advisor: J. Teixeira**

CSEF Nominee




**First Award - Junior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**

**Veera Kalakota**

**Oak Valley Middle School**  
**Advisor: B. Gonzalez**

# **First Award - Junior Division**

## **Chemistry**

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal streaks in shades of green and blue, creating a sense of motion and depth. Interspersed among these streaks are vertical columns of small, light-colored characters, primarily '0's and '1's, reminiscent of a digital data stream or binary code. The overall effect is a futuristic, high-tech aesthetic.



**First Award - Junior Division**  
**Chemistry**

**Ilyas Amin**

**Bright Horizon Academy**  
**Advisor: N. Naserelddin**

**First Award - Junior Division**  
**Chemistry**

**Jonathan Brough**

**La Jolla Country Day School**  
**Advisor: M. Bessler**

CSEF Nominee

**First Award - Junior Division**  
**Chemistry**

**Zhizhen Chen**

**The Cambridge School High School**  
**Advisor: M. Mayne**

CSEF Nominee

**First Award - Junior Division**  
**Chemistry**

**Gregory Croff**

**Nazareth School**  
**Advisor: M. Reed**

CSEF Nominee



**First Award - Junior Division**  
**Chemistry**

**Fuaad Dodi**

**Bright Horizon Academy**  
**Advisor: N. Nasereldin**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge



**First Award - Junior Division**  
**Chemistry**

**Jenna Stoneman**

**De Portola Middle School**  
**Advisor: M. Bridges**

CSEF Nominee

**First Award - Junior Division**  
**Computational Biology and**  
**Bioinformatics**

The background of the slide is a dark, almost black, space filled with abstract, glowing light streaks in shades of green and blue. These streaks appear to be moving or radiating from the bottom right towards the top left, creating a sense of depth and motion. Interspersed among these streaks are faint, vertical columns of binary code (0s and 1s), which are also illuminated with a soft green glow, suggesting a digital or data-driven environment.

**First Award - Junior Division**  
**Computational Biology and**  
**Bioinformatics**

**Yaalini Kathiravan**  
**Arunachalam Vinayagam**  
**Pacific Trails Middle School**  
**Advisor: M. Mareth**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**

**Computer Science and Systems Software**





**First Award - Junior Division**

**Computer Science and Systems Software**

**Rishabh Bhatia**

**The Rhoades School**

**Advisor: R. Hunker**

**First Award - Junior Division**

**Computer Science and Systems Software**

**Junyoung Huh**

**La Jolla Country Day School**

**Advisor: N. Parker**

**First Award - Junior Division**  
**Computer Science and Systems Software**

**Mikhael Kamshad**

**San Diego Hebrew Day School**  
**Advisor: J. Rivard**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**

**Computer Science and Systems Software**

**Ahmad Zubaidi**

**Bright Horizon Academy**

**Advisor: N. Nasereldin**

CSEF Nominee



**First Award - Junior Division**  
**Earth and Environmental Sciences**

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal streaks in shades of green and blue, creating a sense of motion and depth. Interspersed among these streaks are vertical columns of small, glowing green characters, resembling binary code (0s and 1s), which adds a digital or scientific aesthetic to the overall design.

**First Award - Junior Division**  
**Earth and Environmental Sciences**

**Ariana Samady**  
**Embry Blais**

**The Rhoades School**  
**Advisor: R. Hunker**

CSEF Nominee

**First Award - Junior Division**  
**Earth and Environmental Sciences**

**Steven Chen**

**Pacific Trails Middle School**  
**Advisor: M. Mareth**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**  
**Earth and Environmental Sciences**

**Aminah Siddiqui**

**Bright Horizon Academy**  
**Advisor: N. Nasereldin**

CSEF Nominee



**First Award - Junior Division**

**Engineering:**

**Electrical, Mechanical, and Robotics**

**First Award - Junior Division**

**Engineering:**

**Electrical, Mechanical, and Robotics**

**Vishwanathan Vinayagam**

**Adhiban Arulseivan**

**Pacific Trails Middle / Thurgood Marshall Middle**

**Advisor: M. Mareth**

CSEF Nominee

**First Award - Junior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Oliver Cottrell**

**La Jolla Country Day School**  
**Advisor: N. Parker**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge



**First Award - Junior Division**

**Engineering:**

**Electrical, Mechanical, and Robotics**

**Declan Henckels**

**Guhan Senthil**

**Pacific Trails Middle School**

**Advisor: M. Mareth**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge



**First Award - Junior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Yusra Salem**

**Bright Horizon Academy**  
**Advisor: N. Nasereldin**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**

**Engineering:**

**Electrical, Mechanical, and Robotics**

**Ahran Thaper**

**The Rhoades School**

**Advisor: R. Hunker**

**First Award - Junior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Virginia Zhu**

**Oak Valley Middle School**

**Advisor: Y. Yu**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**

**Engineering:  
Energy, Materials, and Transport**



**First Award - Junior Division**  
**Engineering:**  
**Energy, Materials, and Transport**

**Alexander Allport**

**The Children's School**  
**Advisor: D. Quincannon**

CSEF Nominee

**First Award - Junior Division**

**Engineering:  
Energy, Materials, and Transport**

**Danielle-Elizabeth Mensah-Baah**

**Nazareth School**

**Advisor: M. Reed**

**First Award - Junior Division**  
**Engineering:**  
**Energy, Materials, and Transport**

**Jack Pacente**

**Mt. Helix Academy**  
**Advisor: K. MacDonald**

CSEF Nominee

**First Award - Junior Division**

**Engineering:  
Energy, Materials, and Transport**

**Jeyanth Narayan Parthasarathy**

**Pacific Trails Middle School**

**Advisor: M. Abelmann**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge



# **First Award - Junior Division**

## **Microbiology**



**First Award - Junior Division**  
**Microbiology**

**Muhammad Behnawa**

**Bright Horizon Academy**  
**Advisor: N. Nasereldin**

**First Award - Junior Division**  
**Microbiology**

**Charlotte Capaldi**

**The Rhoades School**  
**Advisor: R. Hunker**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**  
**Microbiology**

**Audrey Castillejos**

**De Portola Middle School**  
**Advisor: M. Bridges**

CSEF Nominee



**First Award - Junior Division**  
**Microbiology**

**Ali Dieujuste**

**De Portola Middle School**  
**Advisor: M. Bridges**

**First Award - Junior Division**  
**Microbiology**

**Amaya Fernandez**

**Chula Vista Middle School**  
**Advisor: T. Tom**

CSEF Nominee

# **First Award - Junior Division**

## **Physics and Astronomy**



**First Award - Junior Division**  
**Physics and Astronomy**

**Zoey Chen**

**Carmel Valley Middle School**  
**Advisor: S. Fredin**



**First Award - Junior Division**  
**Physics and Astronomy**

**Asher Kaplan**

**San Diego Hebrew Day School**  
**Advisor: J. Rivard**

CSEF Nominee

**First Award - Junior Division**  
**Physics and Astronomy**

**Helene Nguyen**

**Nazareth School**  
**Advisor: M. Reed**

CSEF Nominee

**First Award - Junior Division**  
**Physics and Astronomy**

**Alfonso Sanchez**

**Extraordinary Private Home School**  
**Advisor: S. Sanchez**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**  
**Physics and Astronomy**

**Samuel Sternson**


**The Rhoades School**  
**Advisor: R. Hunker**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge



**First Award - Junior Division**  
**Plant Sciences**

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal streaks in shades of green and blue, creating a sense of motion and depth. Interspersed among these streaks are vertical columns of binary code (0s and 1s) in a light green color, reminiscent of a digital rain or data stream effect.

# **First Award - Junior Division**

## **Plant Sciences**

**Leilani Schelper**

**The Children's School**  
**Advisor: D. Quincannon**

**CSEF Nominee**

**Thermo Fisher Scientific  
Junior Innovators Challenge**

**First Award - Junior Division**  
**Plant Sciences**

**Ritam Sen**

**Francis Parker School**  
**Advisor: J. Pierce**

CSEF Nominee

Thermo Fisher Scientific  
Junior Innovators Challenge

**First Award - Junior Division**  
**Plant Sciences**

**Olympia Sternson**

**The Rhoades School**  
**Advisor: R. Hunker**



# **First Award - Junior Division**

## **Product Testing**



**First Award - Junior Division**  
**Product Testing**

**Ivonne Cohen**

**San Diego Hebrew Day School**  
**Advisor: J. Rivard**

CSEF Nominee

**First Award - Junior Division**  
**Product Testing**

**Jacob Crivello**

**St. Gregory the Great Catholic School**  
**Advisor: C. Girard**

CSEF Nominee

**First Award - Junior Division**  
**Product Testing**

**Reema Jasim**

**Bright Horizon Academy**  
**Advisor: N. Naserelddin**



**First Award - Junior Division**  
**Product Testing**

**Anthony Nayab**

**St. Gregory the Great Catholic School**  
**Advisor: C. Girard**

**First Award - Junior Division**  
**Product Testing**

**Wyatt Raspotnik**

**The Children's School**  
**Advisor: T. Brown**

CSEF Nominee

# **First Award - Junior Division**

## **Product Testing**

**Olivia Spenla**

**Nazareth School**  
**Advisor: M. Reed**


CSEF Nominee

**First Award**  
**Senior Division**

The background features a dark teal to black gradient with intricate, wavy patterns of fine lines and a grid of small, light blue dots that create a sense of depth and movement.



**First Award - Senior Division**  
**Animal Sciences**

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. A prominent feature is a grid of small, light blue dots that forms a curved, funnel-like shape on the right side of the image, tapering towards the bottom right corner.

**First Award - Senior Division  
Animal Sciences**


**Tanya Mandyam**

**Westview High School  
Advisor: S. Halander**

CSEF Nominee



**First Award - Senior Division**  
**Behavioral and Social Sciences**

The background features a dark teal to black gradient with intricate, wavy patterns of light blue and teal dots and lines, creating a sense of depth and movement.

**First Award - Senior Division  
Behavioral and Social Sciences**

**Aneesh Nudurupati**

**Mt. Carmel High School  
Advisor: A. Klingborg**

**CSEF Nominee**




**First Award - Senior Division  
Behavioral and Social Sciences**

**Steve Zhang**

**Francis Parker School  
Advisor: E. Hart**

CSEF Nominee

**First Award - Senior Division**  
**Biochemistry**

The background features a dark teal to black gradient with intricate, wavy patterns of fine lines and a grid of small, light blue dots that create a sense of depth and movement.



**First Award - Senior Division**  
**Biochemistry**

**Marianthe Dresios**

**Carlsbad High School**  
**Advisor: J. Dresios**

CSEF Nominee

**First Award - Senior Division**  
**Biochemistry**


**Vibha Yadav Ganji**  
**Vidha Yadav Ganji**

**Del Norte High School**  
**Advisor: N. Ganji**

CSEF Nominee



**First Award - Senior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**



**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**

**Dhruv Bantval**

**Canyon Crest Academy  
Advisor: A. Siegel**



**First Award - Senior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**

**Rohan Bojja**  
**Nikhil Maturi**

**Del Norte High School**  
**Advisor: J. Maturi**

**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**

**Saanvi Dogra**

**Del Norte High School  
Advisor: A. Callicott**



**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**

**Leanne Fan**

**Westview High School  
Advisor: D. MacMartin**

CSEF Nominee

**First Award - Senior Division**  
**Biomedical/Health Sciences, and**  
**Biomedical Engineering**

**Anirudh Kalyanaraman**

**Mt. Carmel High School**  
**Advisor: K. Wytmans**

CSEF Nominee



**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**

**Zinia Khattar**

**Del Norte High School  
Advisor: A. Khosla**

CSEF Nominee

**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**

**Jaelyn Liang**

**Westview High School  
Advisor: M. Christopher**



**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**

**Christina Tian**

**Westview High School  
Advisor: D. MacMartin**

CSEF Nominee

**First Award - Senior Division  
Biomedical/Health Sciences, and  
Biomedical Engineering**


**Sydney Zhang**

**Westview High School  
Advisor: S. Halander**

CSEF Nominee



**First Award - Senior Division**  
**Cellular and Molecular Biology**

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. A prominent feature is a grid of small, light blue dots that forms a curved, funnel-like shape on the right side of the image, tapering towards the center.

**First Award - Senior Division**  
**Cellular and Molecular Biology**

**Ethan Leem**

**Canyon Crest Academy**  
**Advisor: M. Zerwekh**



**First Award - Senior Division**  
**Cellular and Molecular Biology**

**Gavin Ni**

**La Jolla Country Day School**  
**Advisor: N. Hao**

CSEF Nominee

**First Award - Senior Division**  
**Cellular and Molecular Biology**


**Shreeya Patel**

**Del Norte High School**  
**Advisor: C. Craig**

CSEF Nominee



**First Award - Senior Division**  
**Chemistry**

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating patterns in a lighter teal color. On the right side, there is a prominent pattern of small, light blue dots arranged in a grid that appears to curve and recede into the distance, creating a 3D effect.




**First Award - Senior Division**  
**Chemistry**

**Juhyeok Lee**  
**Yechan Park**

**Scripps Ranch HS / Otay Ranch HS**  
**Advisors: P. Fowler / A. Masuy**

**CSEF Nominee**

**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. On the right side, there is a vertical column of a grid of small, light blue dots that appears to be part of a larger, curved structure, possibly representing a DNA helix or a protein backbone.



**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Medha Aravind**

**Del Norte High School**  
**Advisor: M. Nathan**



**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Prakruti Bhatt**

**Del Norte High School**  
**Advisor: D. Vyas**

CSEF Nominee

**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Aarushi Garg**

**Canyon Crest Academy**  
**Advisor: E. Gerstin**

CSEF Nominee



**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Henry Hou**

**The Bishop's School**  
**Advisor: D. Cameron**



**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Nithika Vivek**

**Del Norte High School**  
**Advisor: K. Ramesh**

CSEF Nominee

**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Dishti Wadhvani**

**Del Norte High School**  
**Advisor: A. Wadhvani**

CSEF Nominee



**First Award - Senior Division**  
**Computational Biology and**  
**Bioinformatics**

**Anvay Yadav**

**Del Norte High School**  
**Advisor: M. Rao**

CSEF Nominee



**First Award - Senior Division**

**Computer Science and Systems Software**

**First Award - Senior Division**  
**Computer Science and Systems Software**

**Vasant Arul**

**Canyon Crest Academy**  
**Advisor: T. Mauro**

CSEF Nominee



**First Award - Senior Division**  
**Computer Science and Systems Software**

**Alexander Backues**

**Canyon Crest Academy**  
**Advisor: E. Gerstin**

CSEF Nominee



**First Award - Senior Division**  
**Computer Science and Systems Software**

**Arnav Dagar**

**Canyon Crest Academy**  
**Advisor: K. Hare**

CSEF Nominee

**First Award - Senior Division**  
**Computer Science and Systems Software**

**Ella Desai**

**Canyon Crest Academy**  
**Advisor: A. Mauro**

CSEF Nominee



**First Award - Senior Division**  
**Computer Science and Systems Software**

**Riya Khushu**

**Francis Parker School**  
**Advisor: J. Pierce**

CSEF Nominee



**First Award - Senior Division**  
**Computer Science and Systems Software**

**Shounak Ray Chaudhuri**

**Francis Parker School**  
**Advisor: J. Pierce**

CSEF Nominee

**First Award - Senior Division**  
**Computer Science and Systems Software**

**Parth Saxena**

**Scripps Ranch High School**  
**Advisor: P. Fowler**

CSEF Nominee



**First Award - Senior Division**  
**Computer Science and Systems Software**


**Kayley Xu**

**The Bishop's School**  
**Advisor: D. Cameron**

CSEF Nominee



**First Award - Senior Division**  
**Earth and Environmental Sciences**

The background of the slide features a dark teal and blue color palette. It is decorated with abstract, wavy patterns that resemble liquid or smoke. Overlaid on these patterns is a grid of small, light blue dots, which creates a textured, digital effect. The overall aesthetic is modern and scientific.

**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Sarah Gao**

**Canyon Crest Academy**  
**Advisor: E. Gerstin**

CSEF Nominee



**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Max Lau**

**Westview High School**  
**Advisor: K. Klausling**

CSEF Nominee



**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Krish Pai**

**Canyon Crest Academy**  
**Advisor: E. Gerstin**

CSEF Nominee

**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Nathan Qiu**

**Canyon Crest Academy**  
**Advisor: K. Shakeri**

CSEF Nominee



**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Sophie Zeng**  
**Minghui Yao**

**The Bishop's School**  
**Advisor: M. Jaiclin**

CSEF Nominee



**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Lilian Zeng**

**Del Norte High School**  
**Advisor: H. Xu**

CSEF Nominee

**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Emily Zhang**

**Canyon Crest Academy**  
**Advisor: E. Gerstin**

CSEF Nominee




**First Award - Senior Division**  
**Earth and Environmental Sciences**

**Austin Zhang**

**Del Norte High School**  
**Advisor: S. Li**

CSEF Nominee





**First Award - Senior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**First Award - Senior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Alex Battikha**

**Westview High School**  
**Advisor: J. Silberman**

CSEF Nominee



**First Award - Senior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Logan Brown**

**High Tech High North County**  
**Advisor: C. Sailor**

CSEF Nominee



**First Award - Senior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Angelina Kim**

**The Bishop's School**  
**Advisor: A. Pelletier**

CSEF Nominee

**First Award - Senior Division**  
**Engineering:**  
**Electrical, Mechanical, and Robotics**

**Sherwin Salemi**

**High Tech High North County**  
**Advisor: C. Sailor**

CSEF Nominee



**First Award - Senior Division**  
**Engineering:**  
**Energy, Materials, and Transport**



**First Award - Senior Division**  
**Engineering:**  
**Energy, Materials, and Transport**

**Vassilios Dresios**  
**Demetrios Dresios**  
**Carlsbad High School**  
**Advisor: A. Velentza**

CSEF Nominee

**First Award - Senior Division**  
**Engineering:**  
**Energy, Materials, and Transport**

**William Gao**

**Canyon Crest Academy**  
**Advisor: H. Lee**

CSEF Nominee



**First Award - Senior Division**  
**Engineering:**  
**Energy, Materials, and Transport**


**Hudson Kim**

**Westview High School**  
**Advisor: B. Meagher**

CSEF Nominee



# **First Award - Senior Division Mathematics**

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. A prominent feature is a grid of small, light blue dots that forms a curved, funnel-like shape on the right side of the image, tapering towards the center.

**First Award - Senior Division**  
**Mathematics**


**Jeonghoo Hyun**

**Torrey Pines High School**  
**Advisor: J. Newell**

CSEF Nominee



**First Award - Senior Division**  
**Microbiology**

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. A prominent feature is a grid of small, light blue dots that forms a curved, funnel-like shape on the right side of the image, tapering towards the center.



**First Award - Senior Division**  
**Microbiology**

**David He**

**Westview High School**  
**Advisor: S. Halander**

CSEF Nominee

**First Award - Senior Division**  
**Microbiology**


**Mason Raymond**

**Steele Canyon High School**  
**Advisor: S. Weiner**

CSEF Nominee



**First Award - Senior Division**  
**Physics and Astronomy**

The background features a dark teal to black gradient with intricate, wavy patterns of fine lines and a grid of small, light blue dots that create a sense of depth and movement, resembling a digital or scientific visualization.



**First Award - Senior Division  
Physics and Astronomy**

**Vikramaditya Chandra**

**San Marcos High School  
Advisor: S. Bireddy**

CSEF Nominee

**First Award - Senior Division**  
**Physics and Astronomy**

**Trevor Chen**

**Westview High School**  
**Advisor: S. Halander**

CSEF Nominee



**First Award - Senior Division  
Physics and Astronomy**

**Jeremy Feng  
Matthew Ni**

**The Bishop's School  
Advisor: M. Jaiclin**

CSEF Nominee




**First Award - Senior Division**  
**Physics and Astronomy**

**Nandana Madhukara**

**Canyon Crest Academy**  
**Advisor: E. Gerstin**

CSEF Nominee

**First Award - Senior Division**  
**Plant Sciences**

The background features a dark teal to black gradient with intricate, wavy patterns of fine lines and a grid of small, light blue dots that create a sense of depth and movement.



**First Award - Senior Division**  
**Plant Sciences**

**Melany Ibarra**  
**Ana Villegas Palacios**  
**Central Union High School**  
**Advisor: L. Rueda**

CSEF Nominee



**First Award - Senior Division**  
**Plant Sciences**

**Paulina Iniguez**  
**Victoria Takaki**

**Bonita Vista High School**  
**Advisor: J. Ekstein**

CSEF Nominee

**First Award - Senior Division**  
**Plant Sciences**

**Elvin Zhang**

**Del Norte High School**  
**Advisor: J. Cheskaty**

CSEF Nominee

**Congratulations  
to the  
First Award Winners**