Junior Division CA State Awards

Applied Mechanics and Structure

Jeyanth Narayan Parthasarathy Reducing Motion Sickness Caused by Regenerative Braking Systems Pacific Trails MS 4th

Chemistry

Zhizhen Chen Effect of Temperature on Oxidation Speeds Cambridge School 3rd

Cognitive Science

Emily Diep Single Case Pilot Study of Al-driven Speech Therapy Game Connect Academy **2**nd

Electronics and Electromagnetics

Declan Henckels and Guhan Senthil Smart Walker Pacific Trails MS 1st

Oliver Cottrell Automatic Hockey Puck Passer Machine La Jolla Country Day School 2nd

Environmental Engineering #1

Steven Chen Synthesizing Living Materials for Coral Reef Regeneration Pacific Trails MS **Honorable Mention**

Mammalian Biology

Omar Abdulaziz and Anabia Ehsan Early Detection of Bradykinesia and Tremors Thurgood Marshall MS 1st

Material Science

Samuel Sternson Passive Cooling with Infrared Reflective Crystals Rhoades School 1st

Alexander Allport Can Coffee Grounds Save Homes? The Children's School **Honorable Mention**

Mathematical Sciences

Yaalini Kathiravan and Arunachalam Vinayagam Early Detection of Scalp and Facial Diseases Pacific Trails MS **Honorable Mention**

Microbiology

Amaya Fernandez Bacterial on City Buses Chula Vista MS 3rd

Physics and Astronomy

Alfonso Sanchez Gathering Static Electricity Extraordinary Private Home School 3rd

Plant Biology

Ritam Sen Can Elemental Sulfur Influence in Lunar Regolith? Francis Parker 1st

Product Science

Olivia Spenia How Effective are Child Proof Containers? Nazareth School **Honorable Mention**

Zoology

Embry Blais and Ariana Samady Documenting Native Fauna in Aquatic Suburban Setting Rhoades School **2**nd

Sydney O'Donnell Can Domestic Chickens Be Trained to Respond to Color? Rhoades School **Honorable Mention**

Senior Division CA State Awards

Applied Mechanics and Structure

Angelina Kim Autonomous Unmanned Aerial Vehicle for Ocean Hazard Bishop's School 1st

Demetrios Desios and Vassilios Dresios Flexible Resin for Micro-Photolithography Carlsbad HS **3**rd

Behavioral and Social Sciences

Steve Zhang Eyes on the Page: Study of Visual Attention During Storytime Francis Parker **Honorable Mention**

Biochemistry and Molecular Biology

Zinia Khattar Integrated Stress Response .. Mitochondrial Dysfunction Del Norte HS 2nd

Marianthe Dresios Integrated Chemistry and Cell-Free Synthetic Biology for Advanced Diagnostics Carlsbad HS **Honorable Mention**

Shreeya Patel Activation of Tumor Suppressor p53 in Senescence Del Norte HS **Honorable Mention**

Computational Systems and Analysis #1

Riya Khushu Using AI to Automatically Detect Gunshots and Their Location Francis Parker **3**rd

William Gao Transformer-Based Generative Models for Carbon Capture Canyon Crest Academy **Honorable Mention**

Computational Systems and Analysis #2

Shounak Ray Chaudhuri Using Computer Vision for Object Detection on Roads in Developing Countries **Honorable Mention**Computational Systems: Medical #1

Sydney Zhang Design and Usability of Point of Care for Dry Eye Screening Westview HS 2nd

Kayley Xu Comprehensive Approach to Addressing Respiratory Disease Bishop School. **Honorable Mention**

Environmental Engineering #2

Krish Pai Reducing Pollution through Discovery of Novel Plastic Biodegrading Microorganisms Enzyme Engineering 1st and also picked to go to ISEF

Sarah Gao From Trash to Treasure: Hydrogels from Food Waste Canyon Crest Academy **3**rd

Emily Zhang Plant Seed Mucilage: Textile Dye Removal Honorable Mention

Mammalian Biology

Anirudh Kalyanaraman Fluid Shear Stress human colon cancer cells: Nitric Oxide Mt. Carmel HS **3**rd

Mathematical Sciences

Arnav Dagar ARFSNet-Deep Learning for Amblyopia Risk Factor Screening Canyon Crest Academy **2nd**

Microbiology

David He Utilizing Genetically Engineered Ocean Bacteria to Degrade Microplastics Westview HS **2**nd

Physics and Astronomy

Trevor Chen Developing Gratings to Create the Shortest Infrared Laser Pulse Westview HS 4th

Nandana Madhukara Analyzing the Effects of Higher-Order Terms in the Nonlinear Dynamics of Galactic Systems Canyon Crest Academy **Honorable Mention**

Vikramaditya Chandra Astronomical Image Deconvolution Using Novel Deep /CNN Architecture San Marcos HS **Honorable Mention**

Plant Biology

Max Lau Use of Limited Relectance Spectroscopy as Measure of Plant Stress Soil Salinity Westview HS **Honorable Mention**

Zoology

Leanne Fan Photobiomodulation on In-Vivo and In-Citro Wound Models under Simulated Microgravity Westview HS ${f 4}^{th}$

Broadcom Coding With Committment

Abdulaziz	Omar	San Diego	8	Thurgood Marshall Middle School
Ehsan	Anabia	San Diego	7	Thurgood Marshall Middle School

Air and Waste Management Assoc. West Coast

Arulselvan	Adhiban	San Diego	8	Thurgood Marshall Middle School
Vinayagam	Vishwanathan	San Diego	8	Pacific Trails Middle School

California Shore and Beach Preservation Assoc.

Kim	Angelina	Del Mar	11	The Bishop's School
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