

LIST OF AWARDS WON AT THE 2020 GSDSEF

Booth #105

Individual Senior Division Behavioral & Social Sciences

TITLE: *"Repetition Makes Perfect"*

By: Abdirahman Kariye

Attending: Bright Horizon Academy 9-12 9th Grade

Advised by: Najwan Naserelddin

PLACEMENT: 2nd

AWARDS WON:

- San Diego Mensa Professional Society Winner

Booth #108

Individual Senior Division Behavioral & Social Sciences

TITLE: *"How Age and Social Experience Dictate Beliefs on Ease of Social Mobility"*

By: Brian Lee

Attending: Scripps Ranch High School 11th Grade

Advised by: Patty Fowler

PLACEMENT: 3rd

AWARDS WON:

- San Diego Psychological Association Professional Society Winner

Booth #109

Team Senior Division Behavioral & Social Sciences

TITLE: *"What Affects the Probability of School Shootings?"*

By: Grace Li

By: Albert Liu

Attending: Scripps Ranch High School 9th Grade

Advised by: Patty Fowler

PLACEMENT: 3rd

AWARDS WON:

- San Diego Psychological Association Professional Society Winner

Booth #110

Individual Senior Division Behavioral & Social Sciences

TITLE: *"Will Brain Games Increase IQ"*

By: Mustafa Mohamed

Attending: Bright Horizon Academy 9-12 10th Grade

Advised by: Najwan Naserelddin

PLACEMENT: 2nd

AWARDS WON:

- San Diego Psychological Association Professional Society Winner

Booth #111

Individual Senior Division Behavioral & Social Sciences

TITLE: *“Correlation Between Recurring Dream Themes and Anxiety Disorders”*

By: Priscila Munoz

Attending: Central Union High School 10th Grade

Advised by: Lourdes Rueda

PLACEMENT: 3rd

AWARDS WON:

- BD “Advancing the World of Health” Award Professional Society Winner (STAGE)

Booth #115

Individual Senior Division Behavioral & Social Sciences

TITLE: *“Prepotent Response Inhibition in ASL vs. non-ASL Multilinguals- A Correlative Study”*

By: Anjana Shriram

Attending: Canyon Crest Academy 10th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- San Diego Psychological Association Professional Society Winner
- American Psychological Association ISEF Affiliate Winner

Booth #124

Individual Senior Division Biochemistry

TITLE: *“Machine Learning and Pharmacophore- Based Drug Discovery for Treating Duchenne Muscular Dystrophy”*

By: Kate Wang

Attending: Canyon Crest Academy 11th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Senior Division Life Sciences ISEF GRAND AWARD GSDSEF Stage
- American Chemical Society, San Diego Section Professional Society Winner
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Winner
- Biophysical Society Professional Society Honorable Mention

Booth #129

Individual Senior Division Chemistry

TITLE: *“Photocatalytic Treatment of Wastewater and Hydrogen Production”*

By: Audrey Vargas

Attending: Sweetwater High School 11th Grade

Advised by: Johnathan Chase

PLACEMENT: 2nd

AWARDS WON:

- WateReuse Association - San Diego Regional Chapter Professional Society Winner

Booth #130

Individual Senior Division Chemistry

TITLE: *"The Detection and Discrimination of Volatile Organic Vapors in a Thermally Cycled Porous Silicon Photonic Crystal Nanosensor"*

By: Ian Xu

Attending: Del Norte High School 11th Grade

Advised by: Frank Liao

PLACEMENT: 2nd

AWARDS WON:

- American Chemical Society, San Diego Section Professional Society Winner
- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner
- General Atomics Sciences Education Foundation Advanced Materials Award Professional Society Honorable Mention
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #136

Individual Senior Division Computer Science

TITLE: *"Simplified Asthma Diagnosis Through Neural Networks"*

By: Andrew Kuang

Attending: Canyon Crest Academy 10th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- Institute of Electrical and Electronics Engineers Professional Society Winner

Booth #138

Individual Senior Division Computer Science

TITLE: *"DNA Storage - Novel, Cloud-Based Solution to Archive Digital Data Using Synthetic Nucleotides"*

By: Raj Pabari

Attending: Classical Academy High School 10th Grade

Advised by: David Bower

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- San Diego Post of the Society of American Military Engineers Professional Society Winner
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Winner

Booth #139

Individual Senior Division Computer Science

TITLE: *"Using Musical Notation to Encrypt Messages in Python"*

By: Petunia Rizo

Attending: Mt. Everest Academy 9th Grade

Advised by: Norman Negus

PLACEMENT: 2nd

AWARDS WON:

- SLB Honor Society Award GSDSEF Stage
- Society of Women Engineers - San Diego County Section Professional Society Winner
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Honorable Mention

Booth #142

Individual Senior Division Computer Science

TITLE: *"Improving Complexity of Grover's Algorithm Using Qutrits Manipulation and a Novel Two-Dimensional System of the Oracle"*

By: Christopher Um

Attending: Torrey Pines High School 11th Grade

Advised by: Brinn Belyea

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Institute of Electrical and Electronics Engineers Professional Society Winner

Booth #144

Individual Senior Division Computer Science

TITLE: *"Artificial Intelligence Based Kawasaki Disease Early Diagnosis"*

By: Ellen Xu

Attending: Del Norte High School 9th Grade

Advised by: Andrea Callicott

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- RED Award GSDSEF Stage
- Ruben H Fleet Memorial Award GSDSEF Stage
- Physical Sciences GRAND AWARD Runner Up (Sr.) GSDSEF Stage
- Kaiser Permanente Professional Society Winner
- Society of Women Engineers - San Diego County Section Professional Society Winner

Booth #148

Individual Senior Division Engineering, Electrical & Mechanical

TITLE: *"Novel Stimulation of Stem-Cell Derived Brains to Model Neurodevelopmental and Neurodegenerative Diseases"*

By: Christopher Caligiuri

Attending: Canyon Crest Academy 11th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Professional Engineers in California Government Professional Society Winner (STAGE)

Booth #151

Individual Senior Division Engineering, Electrical & Mechanical

TITLE: *"Read My Mind: Morse Code Communication By Measuring Electrical Activity From Eye Blinking"*

By: Marc Kuo

Attending: La Jolla High School 10th Grade

Advised by: Jay Coggan

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- American Society of Mechanical Engineers Professional Society Winner
- Institute of Electrical and Electronics Engineers Professional Society Winner

Booth #154

Individual Senior Division Engineering, Electrical & Mechanical

TITLE: *"For the Deaf to "Hear" - An Experimentation of Augmented Reality"*

By: Michael Zeng

Attending: The Bishop's School 10th Grade

Advised by: Ben Heldt

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Hillcrest-Mission Valley Lions Club Professional Society Winner

Booth #156

Individual Senior Division Engineering, Energy & Transport

TITLE: *"Powered Piers and Beaches by the Rise and Fall of Waves -- A Novel Wave Energy Conversion Application"*

By: Bella Rose Schremmer

Attending: University City High School 9th Grade

Advised by: Maureen Quessenberry

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- Association for Women in Science San Diego Chapter Professional Society Winner
- Marine Technology Society Professional Society Winner
- Society of Women Engineers - San Diego County Section Professional Society Winner

Booth #159

Individual Senior Division Engineering, Materials & Bioengineering

TITLE: *"Engineering an Affordable and Sustainable Water Filtration Device"*

By: Aurora Czajkowski

Attending: Bonita Vista High School 12th Grade

Advised by: Michelle Mardahl-Dumesnil

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- WaterReuse Association - San Diego Regional Chapter Professional Society Winner
- San Diego County Water Authority Professional Society Winner
- NASA EARTH System Science Award ISEF Affiliate Winner
- Stockholm Junior Water Prize ISEF Affiliate Award Winner

Booth #160

Individual Senior Division Engineering, Materials & Bioengineering

TITLE: *"Finding an Effective, Self-Cleaning Water Treatment Solution"*

By: Mohammad Khan

Attending: Bright Horizon Academy 9-12 9th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 3rd

AWARDS WON:

- San Diego County Water Authority Professional Society Winner
- WaterReuse Association - San Diego Regional Chapter Professional Society Winner

Booth #164

Individual Senior Division Engineering, Materials & Bioengineering

TITLE: *"Atmospheric Moisture Harvesting Device: Biomimicking Torrey Pine Needles"*

By: Emily Tianshi

Attending: The Cambridge School High School 11th Grade

Advised by: Melissa Mayne

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Fred H. Rohr Award from Collins Aerospace Professional Society Winner (STAGE)
- San Diego Zoo Global Professional Society Winner (STAGE)
- General Atomics Sciences Education Foundation Advanced Materials Award Professional Society Winner
- San Diego County Water Authority Professional Society Winner
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Winner
- American Meteorological Society ISEF Affiliate Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #168

Individual Senior Division Environmental Sciences & Management

TITLE: *"Effect of Cities on Normalized Differences of Land"*

By: Rina Cao

Attending: University City High School 11th Grade

Advised by: Sean Stevenson

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Senior Division Life Sciences ISEF GRAND AWARD GSDSEF Stage
- Building Industry Association Cares Professional Society Winner
- San Diego Audubon Society Professional Society Winner
- American Meteorological Society ISEF Affiliate Winner

Booth #169

Team Senior Division Environmental Sciences & Management

TITLE: *"A Device to Detect GenX Contaminated Water Using Chemical Indication and Colorimetry"*

By: Dagny Whall

Attending: La Jolla High School 10th Grade

By: Kavya Gupta

Attending: Westview High School 9th Grade

Advised by: Holly Eaton

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Professional Engineers in California Government Professional Society Winner (STAGE)
- ASM Materials Education Foundation ISEF Affiliate Winner
- Stockholm Junior Water Prize ISEF Affiliate Award Winner

Booth #170

Individual Senior Division Environmental Sciences & Management

TITLE: *"Optimizing Plant Cellulose for Cost-effective and Environmentally Benign Oil Spill Mitigation"*

By: Sanjana Gurram

Attending: Westview High School 11th Grade

Advised by: My-Nga Ingram

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Professional Engineers in California Government Professional Society Winner (STAGE)
- California Environmental Health Association - Southwest Chapter/County of San Diego, Department of Environmental Health Professional Society Winner
- San Diego Post of the Society of American Military Engineers Professional Society Winner
- Stockholm Junior Water Prize ISEF Affiliate Award Winner

Booth #171

Individual Senior Division Environmental Sciences & Management

TITLE: *"Fluorescent Reporter Under MerR-like Receptors for Metallic Ion Contaminant Recognition"*

By: Mason Holmes

Attending: Canyon Crest Academy 10th Grade

Advised by: Ariel Haas

PLACEMENT: 2nd

AWARDS WON:

- Stockholm Junior Water Prize ISEF Affiliate Award Winner

Booth #173

Individual Senior Division Environmental Sciences & Management

TITLE: *"Determining the Efficacy of Mycelium Water Filtration Systems"*

By: Grace Oualline

Attending: La Jolla Country Day School 11th Grade

Advised by: Dan Padgett

PLACEMENT: 2nd

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #174

Individual Senior Division Environmental Sciences & Management

TITLE: *"One Man's Trash Is Another Worm's Treasure"*

By: Sabrina Sanchez

Attending: Bonita Vista High School 12th Grade

Advised by: Michelle Mardahl-Dumesnil

PLACEMENT: 2nd

AWARDS WON:

- San Diego Post of the Society of American Military Engineers Professional Society Winner

Booth #176

Individual Senior Division Mathematical Sciences

TITLE: *“Mathematical Analysis of A Fluid in a Polyhedral Domain”*

By: Benjamin Faktor

Attending: Canyon Crest Academy 11th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Senior Division Physical Sciences ISEF GRAND AWARD GSDSEF Stage
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Honorable Mention

Booth #180

Team Senior Division Medicine & Health Sciences

TITLE: *“The Efficacy of Topical Curcumin 5% Gel for Knee Osteoarthritis: A Pilot Study”*

By: Pranav Bantval

Attending: Canyon Crest Academy 9th Grade

By: Rishi Chiniga

Attending: Francis Parker School 10th Grade

Advised by: Ariel Haas

PLACEMENT: 2nd

AWARDS WON:

- San Diego Society of Health-System Pharmacists Professional Society Winner
- San Diego Society of Health-System Pharmacists Professional Society Winner

Booth #181

Individual Senior Division Medicine & Health Sciences

TITLE: *“Do Induced Pluripotent Stem Cell-Derived Extracellular Vesicles Reduce Macrophage Activation and Induce Anti-Inflammatory Effects?”*

By: Dylan Feldstein

Attending: Canyon Crest Academy 11th Grade

Advised by: Ariel Haas

PLACEMENT: 3rd

AWARDS WON:

- San Diego County Veterinary Medical Association Professional Society Winner

Booth #184

Individual Senior Division Medicine & Health Sciences

TITLE: *“Scan, Sequence, Save: Early Lung Cancer Detection via Novel DNA Methylation Liquid Biopsy and Deep Learning Assisted Imaging Analysis”*

By: Andrew Gao

Attending: Canyon Crest Academy 10th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Life Sciences GRAND AWARD Runner Up (Sr) GSDSEF Stage
- Kaiser Permanente Professional Society Winner
- San Diego Society of Health-System Pharmacists Professional Society Honorable Mention
- Biophysical Society Professional Society Honorable Mention

Booth #187

Individual Senior Division Medicine & Health Sciences

TITLE: *"Manipulation of Gut Microbiome by Prebiotic to Combat Alcoholic Liver Diseases"*

By: Ryan Huang

Attending: Canyon Crest Academy 10th Grade

Advised by: Ariel Haas

PLACEMENT: 1st

AWARDS WON:

- American Chemical Society, San Diego Section Professional Society Winner
- California Academy of Nutrition and Dietetics, San Diego District Professional Society Winner
- San Diego Society of Health-System Pharmacists Professional Society Honorable Mention
- Society for In Vitro Biology ISEF Affiliate Award Winner

Booth #191

Individual Senior Division Medicine & Health Sciences

TITLE: *"SCH 23390 Inhibits Cell-Death Produced by Methamphetamine in Human Neuronal Progenitor Cells"*

By: Atulya Mandyam

Attending: Westview High School 10th Grade

Advised by: My-Nga Ingram

PLACEMENT: 1st

AWARDS WON:

- California School Nurse Organization: San Diego/Imperial Section Professional Society Winner

Booth #193

Individual Senior Division Medicine & Health Sciences

TITLE: *"Fast Food VS Homemade Food"*

By: Andres Morales

Attending: Gompers Preparatory Academy 9th Grade

Advised by: Jessica Ulliyott

PLACEMENT: 3rd

AWARDS WON:

- BD "Advancing the World of Health" Award Professional Society Winner (STAGE)

Booth #194

Individual Senior Division Medicine & Health Sciences

TITLE: *"ADHD in a Stratified Pediatric Sample: A Study of Prevalence, Comorbid Conditions, & Impairments"*

By: Alexis Negrete

Attending: Central Union High School 12th Grade

Advised by: Lourdes Rueda

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Kaiser Permanente Professional Society Honorable Mention

Booth #195

Individual Senior Division Medicine & Health Sciences

TITLE: *"NSAIDs: The Fastest Pain Relief"*

By: Jadya Ramirez

Attending: Central Union High School 10th Grade

Advised by: Lourdes Rueda

PLACEMENT: 3rd

AWARDS WON:

- BD "Advancing the World of Health" Award Professional Society Winner (STAGE)

Booth #197

Individual Senior Division Medicine & Health Sciences

TITLE: *"Multiple Factor Analysis Methods Elucidate Genome Expression Changes Across Cell Types"*

By: Jeffrey Wang

Attending: The Bishop's School 11th Grade

Advised by: Anthony Pelletier

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Senior Division Grand Award: The Taiwan Award GSDSEF Stage

Booth #204

Individual Senior Division Microbiology

TITLE: *"The Road to the Cure of Alzheimer's"*

By: Haya Belbese

Attending: Bright Horizon Academy 9-12 9th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Price-Pottenger Nutrition Foundation Professional Society Winner
- Kaiser Permanente Professional Society Honorable Mention

Booth #207

Individual Senior Division Microbiology

TITLE: *"Antibacterial Polymer: Aloe Vera Synthesis of Nano-silver Polymer and its Application"*

By: Kara Fan

Attending: Westview High School 9th Grade

Advised by: Matt Christopher

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #208

Individual Senior Division Microbiology

TITLE: *"A Novel Approach to Killing Klebsiella Pneumoniae Using Endolysins and Polycationic Peptides"*

By: Eleanor Jung

Attending: Mt. Carmel High School 9th Grade

Advised by: Amy Klingborg

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Life Sciences GRAND AWARD Runner Up (Sr) GSDSEF Stage
- Biophysical Society Professional Society Winner

Booth #212

Individual Senior Division Microbiology

TITLE: *"Antioxidants: A Potential Key In Preventing Radiotherapy Cell Toxicity"*

By: Shukriya Osman

Attending: Bright Horizon Academy 9-12 9th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 1st

AWARDS WON:

- Kaiser Permanente Professional Society Honorable Mention
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Honorable Mention

Booth #219

Individual Senior Division Physics & Astronomy

TITLE: *"Determining Plastics with a Grating Spectrometer"*

By: Francisco Catanzaro

Attending: Cathedral Catholic High School 11th Grade

Advised by: Marjan Rafie

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Senior Division Physical Sciences ISEF GRAND AWARD GSDSEF Stage
- American Society for Non Destructive Testing (San Diego Section) Professional Society Winner
- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner
- San Diego Astronomy Association Professional Society Winner

Booth #220

Individual Senior Division Physics & Astronomy

TITLE: *"Effect of Down Force of the Best Beyblades using a MainStays Fan"*

By: Efrain Tanori

Attending: Central Union High School 11th Grade

Advised by: Lourdes Rueda

PLACEMENT: 3rd

AWARDS WON:

- San Diego Astronomy Association Professional Society Honorable Mention

Booth #221

Individual Senior Division Physics & Astronomy

TITLE: *"Characterizing the Pulsations of Delta Scuti Stars Using the Mg I b Triplet"*

By: Vivek Vijayakumar

Attending: San Marcos High School 11th Grade

Advised by: Robert Terrill

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- Physical Sciences GRAND AWARD Runner Up (Sr.) GSDSEF Stage
- Armed Forces Communications and Electronics Association Professional Society Winner
- California Association of Professional Scientists Professional Society Winner
- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner
- San Diego Astronomy Association Professional Society Winner

Booth #223

Individual Senior Division Plant Sciences

TITLE: *"Effects of Mycorrhizal Networks on Carbon Flow Between Plants"*

By: Malvyn Lai

Attending: Mt. Everest Academy 9th Grade

Advised by: Rebeca Pachon

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- San Diego Audubon Society Professional Society Winner
- San Diego Zoo Global Professional Society Honorable Mention

Booth #501

Individual Junior Division Animal Sciences

TITLE: *"Investigating Plastic Contaminants Present in the Alimentary Tracts of Fish"*

By: Mele Barton

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner
- San Diego County Veterinary Medical Association Professional Society Winner
- San Diego Zoo Global Professional Society Honorable Mention
- National Oceanic and Atmospheric Administration "Taking the Pulse of the Planet" Award ISEF Affiliate Award Winner

Booth #502

Team Junior Division Animal Sciences

TITLE: *"Dog Saliva vs. Human Saliva"*

By: Preston Bove

By: Carlie Burns

Attending: St. John School - Encinitas, CA 7th Grade

Advised by: Gena Heins

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego County Dental Society Professional Society Winner

Booth #522

Individual Junior Division Behavioral & Social Sciences

TITLE: *"The Effect of Your Age on How Scared You Are"*

By: Maya Bateman

Attending: The Children's School 8th Grade

Advised by: Tina Brown

PLACEMENT: 1st

AWARDS WON:

- San Diego Psychological Association Professional Society Honorable Mention

Booth #523

Team Junior Division Behavioral & Social Sciences

TITLE: *"Who Follows the Rules?"*

By: Grace Howard

By: Taylor Belanich

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Price-Pottenger Nutrition Foundation Professional Society Winner
- San Diego Psychological Association Professional Society Winner

Booth #527

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Effects of Positive Vocalizations On Athletic Performance"*

By: Griffin Cappiello

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 3rd

AWARDS WON:

- San Diego Psychological Association Professional Society Honorable Mention

Booth #540

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Testing the Effectiveness of the Flipped Classroom Model on Student Recall"*

By: Leila Elasaad

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego Mensa Professional Society Winner
- San Diego Psychological Association Professional Society Honorable Mention

Booth #542

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Does Color Have an Effect on Our Memory?"*

By: Sophia Frank

Attending: St. John School - Encinitas, CA 7th Grade

Advised by: Gena Heins

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner

Booth #546

Individual Junior Division Behavioral & Social Sciences

TITLE: *"The Power of Suggestion"*

By: Karis Goodwin

Attending: St. John School - Encinitas, CA 8th Grade

Advised by: Gena Heins

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego Mensa Professional Society Winner
- San Diego Psychological Association Professional Society Honorable Mention

Booth #548

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Decision Making Biases: Nature vs. Nurture"*

By: Marc Jinich

Attending: San Diego Jewish Academy 7-8 8th Grade

Advised by: Lily Deveau

PLACEMENT: 2nd

AWARDS WON:

- San Diego Psychological Association Professional Society Honorable Mention

Booth #552

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Effect of Color On Memory"*

By: Safwa Khan

Attending: Bright Horizon Academy 6-8 8th Grade

Advised by: Najwan Naserelddin

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- California School Nurse Organization: San Diego/Imperial Section Professional Society Honorable Mention

Booth #554

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Reaction Time"*

By: Christopher Lindgren

Attending: St. Didacus Parish School 7th Grade

Advised by: Rita Blickenstaff

PLACEMENT: 2nd

AWARDS WON:

- San Diego Psychological Association Professional Society Winner

Booth #556

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Investigating Anxiety Levels In Preadolescent Vs. Adolescent Children"*

By: Lily Masi

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner
- San Diego Psychological Association Professional Society Honorable Mention

Booth #562

Individual Junior Division Behavioral & Social Sciences

TITLE: *"The Effect of Teaching Nonverbal Communication on Nonverbal Communication Knowledge"*

By: Shane Montal

Attending: The Children's School 7th Grade

Advised by: Diana Quincannon

PLACEMENT: 1st

AWARDS WON:

- San Diego Psychological Association Professional Society Winner

Booth #566

Individual Junior Division Behavioral & Social Sciences

TITLE: *"The Effects of Roris Marini on Recall in Adolescent Test Subjects"*

By: Wesley Nesbitt

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 2nd

AWARDS WON:

- SLB Honor Society Award GSDSEF Stage
- San Diego Psychological Association Professional Society Honorable Mention

Booth #576

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Who Has Better Memory-- Introverts or Extroverts?"*

By: Denisse Podolsky

Attending: Soille San Diego Hebrew Day School 8th Grade

Advised by: Matt Bessler

PLACEMENT: 1st

AWARDS WON:

- San Diego Mensa Professional Society Winner

Booth #578

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Comparing Paper and Computer"*

By: Qudsia Qarar

Attending: Bright Horizon Academy 6-8 7th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 2nd

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Honorable Mention
- San Diego Psychological Association Professional Society Honorable Mention

Booth #579

Individual Junior Division Behavioral & Social Sciences

TITLE: *"It's All In Your Head: Inside a Stutterer's Brain"*

By: Adriana Quezada

Attending: St. John School - Encinitas, CA 8th Grade

Advised by: Gena Heins

PLACEMENT: 1st

AWARDS WON:

- San Diego Psychological Association Professional Society Winner
- Association for Women in Science San Diego Chapter Professional Society Honorable Mention

Booth #582

Individual Junior Division Behavioral & Social Sciences

TITLE: *"The Empathy Mechanism: Using a Quotient To Evaluate the Effects of Gender and Age"*

By: Leia Ryan

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Life Sciences GRAND AWARD Runner Up (Jr) GSDSEF Stage
- Association for Women in Science San Diego Chapter Professional Society Winner
- San Diego Psychological Association Professional Society Winner

Booth #585

Individual Junior Division Behavioral & Social Sciences

TITLE: *"Quantifying the Impact of Search-Order Bias on Voting Preferences using a Simulated Web Environment"*

By: Agastya Sridharan

Attending: Thurgood Marshall Middle School 8th Grade

Advised by: Erin Schumacher

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego Mensa Professional Society Winner
- San Diego Psychological Association Professional Society Winner

Booth #588

Team Junior Division Behavioral & Social Sciences

TITLE: *"Exploring Effects of Transient Emotions on Short Term vs Long Term Recall"*

By: Jamie Jane Weston

By: Mehar Thaper

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego Psychological Association Professional Society Honorable Mention

Booth #602

Individual Junior Division Biochemistry

TITLE: *"Turmeric: The Effect on Metals in Healthy Cells"*

By: Hafsah Kazi

Attending: Bright Horizon Academy 6-8 7th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #615

Individual Junior Division Chemistry

TITLE: *"Preventing Condensation on Eyeglasses"*

By: Lukky De Guzman

Attending: Chula Vista Middle School 8th Grade

Advised by: Tina Tom

PLACEMENT: 3rd

AWARDS WON:

- BD "Advancing the World of Health" Award Professional Society Winner (STAGE)
- American Chemical Society, San Diego Section Professional Society Winner

Booth #616

Individual Junior Division Chemistry

TITLE: *"Acid Attack"*

By: Nathan Do

Attending: Farb Middle School 8th Grade

Advised by: Patricia Huntington

PLACEMENT: 3rd

AWARDS WON:

- NACE International Professional Society Winner

Booth #620

Individual Junior Division Chemistry

TITLE: *"Water and Nitrates"*

By: Sam Fries

Attending: St. Didacus Parish School 8th Grade

Advised by: Rita Blickenstaff

PLACEMENT: 2nd

AWARDS WON:

- WateReuse Association - San Diego Regional Chapter Professional Society Winner

Booth #621

Individual Junior Division Chemistry

TITLE: *"Types of Paint and Temperature vs Drying Time"*

By: Alexis Green

Attending: St. Michael Academy San Diego 7th Grade

Advised by: Marlin Escalante

PLACEMENT: 1st

AWARDS WON:

- NACE International Professional Society Winner

Booth #633

Individual Junior Division Chemistry

TITLE: *"Does Copper Ionization Work Better than Chemicals in Killing Algae?"*

By: Jocelyn Sweeney

Attending: Nazareth School 7th Grade

Advised by: Marilyn Reed

PLACEMENT: 2nd

AWARDS WON:

- American Chemical Society, San Diego Section Professional Society Winner
- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #635

Individual Junior Division Chemistry

TITLE: *"What Recipe for Bath Bombs Makes the Fizziest Bath Bomb?"*

By: Maya Zagursky

Attending: San Diego Jewish Academy 7-8 8th Grade

Advised by: Lily Deveau

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- American Chemical Society, San Diego Section Professional Society Winner

Booth #639

Individual Junior Division Computer Science

TITLE: *"Using Machine Learning to Detect and Identify Food Products for the Sight Impaired."*

By: Ashton Anderson

Attending: Correia Middle School 8th Grade

Advised by: Jeff Flosky

PLACEMENT: 2nd

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- Hillcrest-Mission Valley Lions Club Professional Society Winner

Booth #640

Team Junior Division Computer Science

TITLE: *"Generating Color Through Coding an Infinity Mirror"*

By: Koe Goodsell

By: Logan Benintend

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 3rd

AWARDS WON:

- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner

Booth #641

Individual Junior Division Computer Science

TITLE: *"Look Away: Vision App"*

By: Liora Berg

Attending: Soille San Diego Hebrew Day School 8th Grade

Advised by: Matt Bessler

PLACEMENT: 3rd

AWARDS WON:

- San Diego County Optometric Society Professional Society Winner

Booth #642

Team Junior Division Computer Science

TITLE: *"Fall Detection: Using Artificial Intelligence to Help the Elderly"*

By: Arjun Chatha

By: David Samy

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

AWARDS WON:

- Institute of Electrical and Electronics Engineers Professional Society Winner
- San Diego County Optometric Society Professional Society Winner
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Honorable Mention

Booth #647

Individual Junior Division Computer Science

TITLE: *"Forecasting Stock Market Values Using Machine Learning"*

By: Kai Goodsell

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Selected as Alternate for (cancelled) California State Science & Engineering Fair

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner

Booth #648

Individual Junior Division Computer Science

TITLE: *"What Materials Can Reduce A WiFi Signal"*

By: Andrew Martinez

Attending: St. Mary Star of the Sea School 6th Grade

Advised by: Janice Alonso

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- American Society of Materials International, San Diego Chapter Professional Society Winner

Booth #650

Team Junior Division Computer Science

TITLE: *"AI-Based Obstacle Detection and Notification for the Visually Impaired"*

By: Rikhil Rao

By: Rahul Rao

Attending: Pacific Trails Middle School 8th Grade

Advised by: Samantha Thacker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Honorable Mention

Booth #651

Individual Junior Division Computer Science

TITLE: *"Using a Neural Network to Determine Emotion in Music"*

By: Aleister Steadman

Attending: Wangenheim Middle School 8th Grade

Advised by: Marin Silva

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Physical Sciences GRAND AWARD Runner Up (Jr.) GSDSEF Stage

Booth #655

Individual Junior Division Earth & Planetary Science

TITLE: *"Why is there Extra Light in our Skies?"*

By: Morgan Brady

Attending: Stella Maris Academy 8th Grade

Advised by: Adrienne Jones

PLACEMENT: 2nd

AWARDS WON:

- San Diego Astronomy Association Professional Society Winner
- San Diego Section of the International Dark Sky Association Professional Society Winner
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Honorable Mention

Booth #657

Individual Junior Division Earth & Planetary Science

TITLE: *"Percolation: Quantifying the Movement of Water Through Soil"*

By: Marcus Catanzaro

Attending: Pacific Beach Middle School 8th Grade

Advised by: Greg Greenberg

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego County Water Authority Professional Society Winner
- San Diego Post of the Society of American Military Engineers Professional Society Winner

Booth #663

Individual Junior Division Earth & Planetary Science

TITLE: *"Wave Runup and Ocean Floor Composition"*

By: Gabriela Serena

Attending: St. Michael's School - Poway 7th Grade

Advised by: June Poling

PLACEMENT: 2nd

AWARDS WON:

- Marine Technology Society Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #664

Individual Junior Division Earth & Planetary Science

TITLE: *"The Effect of Different Types of Sunscreens on Brine Shrimp"*

By: Sophia Tamashiro

Attending: City Tree Christian School 6-8 8th Grade

Advised by: Michelle Lee

PLACEMENT: 1st

Selected as Alternate for (cancelled) California State Science & Engineering Fair

AWARDS WON:

- Marine Technology Society Professional Society Winner
- Association for Women Geoscientists ISEF Affiliate Winner

Booth #665

Individual Junior Division Earth & Planetary Science

TITLE: *"The Impact of Light Pollution"*

By: Kandice Alvarado

Attending: Corfman School 7th Grade

Advised by: Isaac Leon

PLACEMENT: 3rd

AWARDS WON:

- San Diego Section of the International Dark Sky Association Professional Society Honorable Mention

Booth #667

Team Junior Division Engineering, Electrical & Mechanical

TITLE: *"The Memory Metal"*

By: Brendan Cordaro

By: Michael Apalatea

Attending: St. John School - Encinitas, CA 8th Grade

Advised by: Gena Heins

PLACEMENT: 3rd

AWARDS WON:

- American Society of Materials International, San Diego Chapter Professional Society Honorable Mention

Booth #668

Team Junior Division Engineering, Electrical & Mechanical

TITLE: *"Constructing an Affordable Robotic Device that Automates Multiple Agricultural Tasks"*

By: Tom Bamford

By: Ashur Taylor

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT:

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

Booth #673

Individual Junior Division Engineering, Electrical & Mechanical

TITLE: *"Solectricity"*

By: Chris Choi

Attending: Corfman School 7th Grade

Advised by: Isaac Leon

PLACEMENT: 1st

AWARDS WON:

- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #677

Individual Junior Division Engineering, Electrical & Mechanical

TITLE: *"Generating Energy from Sewage Water Flow"*

By: Jennine Manalo

Attending: St. Rita's Catholic School 8th Grade

Advised by: Ahmad Rice

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Building Industry Association Cares Professional Society Winner
- San Diego County Water Authority Professional Society Winner
- WaterReuse Association - San Diego Regional Chapter Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #678

Individual Junior Division Engineering, Electrical & Mechanical

TITLE: *"Mapping the Field of an Electromagnet"*

By: Nathan McKinney

Attending: Good Shepherd Catholic School 8th Grade

Advised by: Mary Anne McNeil

PLACEMENT: 2nd

AWARDS WON:

- American Society for Non Destructive Testing (San Diego Section) Professional Society Winner
- Armed Forces Communications and Electronics Association Professional Society Winner

Booth #680

Individual Junior Division Engineering, Electrical & Mechanical

TITLE: *"Motor's Role in Robot Mobility"*

By: Cecilia Moxley

Attending: De Portola Middle School 8th Grade

Advised by: Michael Bridges

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #689

Individual Junior Division Engineering, Electrical & Mechanical

TITLE: *"Raspberry Pi Powered Microscopic Particle Detector Using Image Processing"*

By: Kyle Tianshi

Attending: The Cambridge School High School 8th Grade

Advised by: Melissa Mayne

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Physical Sciences GRAND AWARD (Jr.) GSDSEF Stage
- American Society of Mechanical Engineers Professional Society Winner
- Armed Forces Communications and Electronics Association Professional Society Winner
- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner
- Institute of Electrical and Electronics Engineers Professional Society Winner
- San Diego Post of the Society of American Military Engineers Professional Society Winner
- General Atomics Sciences Education Foundation Advanced Materials Award Professional Society Honorable Mention
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #691

Individual Junior Division Engineering, Electrical & Mechanical

TITLE: *"Engineering a Hand"*

By: Lorenzo Valenzuela

Attending: Corfman School 7th Grade

Advised by: Isaac Leon

PLACEMENT: 2nd

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner

Booth #698

Individual Junior Division Engineering, Energy & Transport

TITLE: *"Soaring Through the Science of Rockets"*

By: Kyle Estep

Attending: Farb Middle School 8th Grade

Advised by: Patricia Huntington

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #713

Individual Junior Division Engineering, Energy & Transport

TITLE: *"Superconductors: The Future of Transportation?"*

By: Nicholas Usher

Attending: Classical Academy Middle School 8th Grade

Advised by: Jennifer Morrow

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Physical Sciences GRAND AWARD WINNER (Jr.) GSDSEF Stage
- Professional Engineers in California Government Professional Society Winner (STAGE)
- Armed Forces Communications and Electronics Association Professional Society Winner
- General Atomics Sciences Education Foundation Advanced Materials Award Professional Society Winner
- American Institute of Aeronautics and Astronautics - San Diego Section Professional Society Winner
- San Diego Science Educators Association Professional Society Winner

Booth #714

Individual Junior Division Engineering, Energy & Transport

TITLE: *"Harvesting Piezoelectricity from Commonly Used Devices"*

By: Kashifa Vellore

Attending: Bernardo Heights Middle School 7th Grade

Advised by: Linguie Cao

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

AWARDS WON:

- American Society of Materials International, San Diego Chapter Professional Society Honorable Mention

Booth #715

Individual Junior Division Engineering, Energy & Transport

TITLE: *"What's the Best Cooking Pot Material?"*

By: Alondra Villa

Attending: Chula Vista Middle School 8th Grade

Advised by: Gina Saclauso-Caro

PLACEMENT: 2nd

AWARDS WON:

- Society of Women Engineers - San Diego County Section Professional Society Winner
- American Society of Materials International, San Diego Chapter Professional Society Honorable Mention

Booth #721

Individual Junior Division Engineering, Materials & Bioengineering

TITLE: *"Raise The Roof-Top Gardens"*

By: Dayna Coates

Attending: Rancho del Rey Middle School 8th Grade

Advised by: Dawn Castillo

PLACEMENT: 3rd

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #726

Individual Junior Division Engineering, Materials & Bioengineering

TITLE: *"Is It Possible to Make a Biodegradable Straw Out of Casein Plastic?"*

By: Veronica Griger

Attending: Coastal Academy 7th Grade

Advised by: Bridget Biernacki

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- American Society of Materials International, San Diego Chapter Professional Society Winner
- Society of Women Engineers - San Diego County Section Professional Society Winner

Booth #728

Individual Junior Division Engineering, Materials & Bioengineering

TITLE: *"Why It Breaks"*

By: Cooper Lynch

Attending: San Diego Jewish Academy 7-8 8th Grade

Advised by: Lily Deveau

PLACEMENT: 2nd

AWARDS WON:

- NACE International Professional Society Winner

Booth #729

Individual Junior Division Engineering, Materials & Bioengineering

TITLE: *"Ocean Pollution Solution"*

By: Nina Maya

Attending: Soille San Diego Hebrew Day School 8th Grade

Advised by: Matt Bessler

PLACEMENT: 3rd

AWARDS WON:

- Marine Technology Society Professional Society Honorable Mention

Booth #731

Individual Junior Division Engineering, Materials & Bioengineering

TITLE: *"Structures that Reduce Tsunami Damage"*

By: Liam Patterson

Attending: St. Didacus Parish School 7th Grade

Advised by: Rita Blickenstaff

PLACEMENT: 3rd

AWARDS WON:

- Marine Technology Society Professional Society Honorable Mention

Booth #740

Team Junior Division Environmental Sciences & Management

TITLE: *"How Does the Presence of Heavy Metals Affect Aquatic Environments?"*

By: Brando Banco

By: Jacob Antonio

Attending: Wangenheim Middle School 8th Grade

Advised by: Marin Silva

PLACEMENT: 3rd

AWARDS WON:

- Marine Technology Society Professional Society Honorable Mention

Booth #744

Team Junior Division Environmental Sciences & Management

TITLE: *"Light Pollution"*

By: Alex Burkart

By: Eoin Buechs

Attending: St. John School - Encinitas, CA 8th Grade

Advised by: Gena Heins

PLACEMENT: 4th

AWARDS WON:

- San Diego Section of the International Dark Sky Association Professional Society Honorable Mention

Booth #749

Individual Junior Division Environmental Sciences & Management

TITLE: *"H2 Oh No! Which San Diego Public Parks Have the Cleanest Drinking Water?"*

By: Ryan De Guzman

Attending: Good Shepherd Catholic School 8th Grade

Advised by: Mary Anne McNeil

PLACEMENT: 3rd

AWARDS WON:

- California Environmental Health Association - Southwest Chapter/County of San Diego, Department of Environmental Health Professional Society Honorable Mention

Booth #751

Individual Junior Division Environmental Sciences & Management

TITLE: *"Reach for the Stars"*

By: Colin Dionne

Attending: St. Peter the Apostle Catholic School 7th Grade

Advised by: Ted Fantano

PLACEMENT: 4th

AWARDS WON:

- San Diego Section of the International Dark Sky Association Professional Society Honorable Mention

Booth #752

Team Junior Division Environmental Sciences & Management

TITLE: *"Quantifying the Effectiveness of P. ostreatus in Mycoremediation of Heavy Metals"*

By: Adam Esch

By: Grace Millikin

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #753

Individual Junior Division Environmental Sciences & Management

TITLE: *"Can San Diego's Freshwater pH Sustain Rainbow Trout Population?"*

By: Savanna Grodeman

Attending: Chula Vista Middle School 8th Grade

Advised by: Tina Tom

PLACEMENT: 3rd

AWARDS WON:

- Marine Technology Society Professional Society Winner

Booth #754

Individual Junior Division Environmental Sciences & Management

TITLE: *"Oceans Without Border"*

By: Alayda Guerrero

Attending: Chula Vista Middle School 8th Grade

Advised by: Gina Saclauso-Caro

PLACEMENT: 3rd

AWARDS WON:

- Marine Technology Society Professional Society Winner

Booth #755

Individual Junior Division Environmental Sciences & Management

TITLE: *"Temperature and Beach water pH"*

By: Marcos Hernandez

Attending: St. Didacus Parish School 8th Grade

Advised by: Rita Blickenstaff

PLACEMENT: 4th

AWARDS WON:

- Marine Technology Society Professional Society Winner

Booth #756

Individual Junior Division Environmental Sciences & Management

TITLE: *"Can Bacteria Break Down Engine Oil?"*

By: Fatuma Ismail

Attending: Bright Horizon Academy 6-8 8th Grade

Advised by: Najwan Naserelddin

PLACEMENT: 2nd

AWARDS WON:

- Marine Technology Society Professional Society Winner

Booth #757

Individual Junior Division Environmental Sciences & Management

TITLE: *"Would a Black Solar Tube Filled with Water Gain More Energy Than a White Solar Tube Filled with Water?"*

By: Tanner Kamencik

Attending: All Hallows Academy 7th Grade

Advised by: Jennifer Meza

PLACEMENT: 2nd

AWARDS WON:

- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner

Booth #758

Team Junior Division Environmental Sciences & Management

TITLE: *"Documenting the Prevalence of Invasive Species at the Batiquitos Lagoon"*

By: Rohan Keswani

By: Elias Samady

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- San Diego Zoo Global Professional Society Winner (STAGE)
- Friends of Famosa Slough Professional Society Winner
- Torrey Pines Docent Society Professional Society Winner

Booth #764

Individual Junior Division Environmental Sciences & Management

TITLE: *"Woolsey Fire Burnt Soil: Analyzing Factors for Native Plant Regrowth"*

By: Willa Norvell

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Torrey Pines Docent Society Professional Society Winner

Booth #765

Individual Junior Division Environmental Sciences & Management

TITLE: *"Air Pollutants In Our Environment"*

By: Alyssa Ortega

Attending: Corfman School 8th Grade

Advised by: Christina Butler

PLACEMENT: 2nd

AWARDS WON:

- BD "Advancing the World of Health" Award Professional Society Winner (STAGE)

Booth #767

Team Junior Division Environmental Sciences & Management

TITLE: *"Exploring Water Quality at the Buena Vista Lagoon"*

By: Kelly Bordine

By: Kaitlyn Podlich

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 2nd

AWARDS WON:

- Friends of Famosa Slough Professional Society Winner
- San Diego County Water Authority Professional Society Winner

Booth #772

Individual Junior Division Environmental Sciences & Management

TITLE: *"Effectiveness of Homemade Desalinators"*

By: Peyton Slinkard

Attending: St. Didacus Parish School 7th Grade

Advised by: Rita Blickenstaff

PLACEMENT: 4th

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- Office of Naval Research (U.S. Navy/ U.S. Marine Corps) ISEF Affiliate Award Winner

Booth #777

Individual Junior Division Mathematical Sciences

TITLE: *"Mathematical Origami Models for Space Structures Based on the Axial Compressibility of Cones"*

By: Nandana Madhukara

Attending: Pacific Trails Middle School

Advised by: Kathryn Freeman

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Physical Sciences GRAND AWARD Runner Up (Jr.) GSDSEF Stage
- American Institute of Aeronautics and Astronautics - San Diego Section Professional Society Winner
- DoD STEM Leadership Prize ISEF Affiliate Winner

Booth #782

Team Junior Division Medicine & Health Sciences

TITLE: *"A Study of Padding"*

By: Tyler Duong

By: Ethan Bertellotti

Attending: St. Michael's School - Poway 7th Grade

Advised by: Kaley McHale

PLACEMENT: 3rd

AWARDS WON:

- San Diego Society of Health-System Pharmacists Professional Society Honorable Mention

Booth #783

Team Junior Division Medicine & Health Sciences

TITLE: *"Hearing Loss When You Use Headphones, Earbuds, AirPods"*

By: Patrick Dockery

By: Gustavo Serena

Attending: St. Michael's School - Poway 7th Grade

Advised by: Kaley McHale

PLACEMENT: 2nd

AWARDS WON:

- California School Nurse Organization: San Diego/Imperial Section Professional Society Winner
- San Diego Society of Health-System Pharmacists Professional Society Honorable Mention
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Honorable Mention

Booth #786

Individual Junior Division Medicine & Health Sciences

TITLE: *"One Step Closer to Ending Diabetes by Choosing the Right Variety of Rice"*

By: Reem Hmoud

Attending: Bright Horizon Academy 6-8 7th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 1st

Selected as Alternate for (cancelled) California State Science & Engineering Fair

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Honorable Mention
- California School Nurse Organization: San Diego/Imperial Section Professional Society Honorable Mention

Booth #791

Team Junior Division Medicine & Health Sciences

TITLE: *"Investigating Antimicrobial Properties of Eco-Friendly Herbal Disinfectants"*

By: Audrey Link

By: Divya Sharma

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 2nd

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #801

Individual Junior Division Medicine & Health Sciences

TITLE: *"Evaluating Single Nucleotide Polymorphisms in the Correlation of Phenotypes to Type 2 Diabetes"*

By: Bhadra Rupesh

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Life Sciences GRAND AWARD WINNER (Jr) GSDSEF Stage
- San Diego Society of Health-System Pharmacists Professional Society Winner

Booth #804

Individual Junior Division Medicine & Health Sciences

TITLE: *"How Pollution is Affecting Children in the Imperial/Mexicali Valley"*

By: Melissa Soberanes

Attending: Our Lady of Guadalupe Academy 6th Grade

Advised by: Joshua Patton

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- BD "Advancing the World of Health" Award Professional Society Winner (STAGE)
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Winner
- Society of Women Engineers - San Diego County Section Professional Society Winner

Booth #806

Individual Junior Division Medicine & Health Sciences

TITLE: *"Will Organic Really Make a Difference?"*

By: Sarah Youssef

Attending: Bright Horizon Academy 6-8 7th Grade

Advised by: Najwan Naserelddin

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Honorable Mention
- Sigma Xi: The Scientific Research Honor Society (San Diego Chapter) Professional Society Honorable Mention

Booth #807

Individual Junior Division Medicine & Health Sciences

TITLE: *"Designing A Low-cost, High-sensitivity Method For Early Diagnosis Of Dry Eye Diseases"*

By: Sydney Zhang

Attending: Mesa Verde Middle School 7th Grade

Advised by:

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Life Sciences GRAND AWARD WINNER (Jr) GSDSEF Stage
- San Diego County Optometric Society Professional Society Winner

Booth #812

Individual Junior Division Microbiology

TITLE: *"Which Works Best?? Alcohol vs. Homemade Sanitizers"*

By: Farah Aswad

Attending: Bright Horizon Academy 6-8 8th Grade

Advised by: Najwan Nasereldin

PLACEMENT: 3rd

AWARDS WON:

- Price-Pottenger Nutrition Foundation Professional Society Winner

Booth #817

Individual Junior Division Microbiology

TITLE: *"The Five Second Rule"*

By: Ema Escobar

Attending: St. Didacus Parish School 7th Grade

Advised by: Rita Blickenstaff

PLACEMENT: 2nd

AWARDS WON:

- California Environmental Health Association - Southwest Chapter/County of San Diego, Department of Environmental Health Professional Society Winner

Booth #818

Individual Junior Division Microbiology

TITLE: *"Power of Light: The Antibacterial Effect of Red and Blue Lights"*

By: Leanne Fan

Attending: Mesa Verde Middle School 6th Grade

Advised by: Danielle Fice

PLACEMENT: 1st

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

Booth #820

Individual Junior Division Microbiology

TITLE: *"Is a Washed or Unwashed Egg Better at Protecting Against Bacteria"*

By: Josh Kozak

Attending: All Hallows Academy 7th Grade

Advised by: Jennifer Meza

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Life Sciences GRAND AWARD Runner Up (Jr) GSDSEF Stage
- California Academy of Nutrition and Dietetics, San Diego District Professional Society Winner

Booth #824

Individual Junior Division Microbiology

TITLE: *"Child and Adult Medical Clinic Waiting Rooms: Which Has More Bacteria?"*

By: Shannon Stroup

Attending: Nazareth School 7th Grade

Advised by: Marilyn Reed

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #826

Individual Junior Division Microbiology

TITLE: *"Testing the Effectiveness of Commercially Available Water Filters for Total Dissolved Solids and Microbial Growth"*

By: Erin Grace Tuscano

Attending: St. Michael Academy San Diego 8th Grade

Advised by: Marilin Escalante

PLACEMENT: 2nd

AWARDS WON:

- WateReuse Association - San Diego Regional Chapter Professional Society Winner

Booth #828

Individual Junior Division Microbiology

TITLE: *"SCOBY-doo. Where Are You? A Scientific Kombucha Experiment"*

By: Ella Yerushalmi

Attending: Soille San Diego Hebrew Day School 8th Grade

Advised by: Matt Bessler

PLACEMENT: 2nd

AWARDS WON:

- Price-Pottenger Nutrition Foundation Professional Society Winner

Booth #834

Team Junior Division Physics & Astronomy

TITLE: *"Evaluating the Effectiveness of Light Shields Against Skyglow"*

By: Jake Streitman

By: Sawyer Benedict

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

AWARDS WON:

- Building Industry Association Cares Professional Society Winner
- San Diego Astronomy Association Professional Society Winner
- San Diego Section of the International Dark Sky Association Professional Society Winner

Booth #840

Individual Junior Division Physics & Astronomy

TITLE: *"Light Pollution"*

By: Jackson Faust

Attending: St. John School - Encinitas, CA 7th Grade

Advised by: Gena Heins

PLACEMENT: 2nd

AWARDS WON:

- San Diego Astronomy Association Professional Society Honorable Mention

Booth #841

Individual Junior Division Physics & Astronomy

TITLE: *"Make A Hit Chart Like A Pro"*

By: Lucas Fouch

Attending: Bonita Vista Middle School 7th Grade

Advised by: Cynthia Shimasaki

PLACEMENT: 2nd

AWARDS WON:

- Mickey Award GSDSEF Stage

Booth #843

Individual Junior Division Physics & Astronomy

TITLE: *"Model Rocket Aerodynamics"*

By: Micah Hall

Attending: Mt. Helix Academy 7th Grade

Advised by: John Hudson

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- American Institute of Aeronautics and Astronautics - San Diego Section Professional Society Winner

Booth #847

Individual Junior Division Physics & Astronomy

TITLE: *"Bumper to Bumper"*

By: Jack Licha

Attending: Soille San Diego Hebrew Day School 8th Grade

Advised by: Matt Bessler

PLACEMENT: 1st

AWARDS WON:

- San Diego Science Educators Association Professional Society Winner

Booth #853

Individual Junior Division Physics & Astronomy

TITLE: *"The Effects of Various Wavelengths on Rod Activity"*

By: Tejas Ravi

Attending: The Rhoades School 7th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Armed Forces Communications and Electronics Association Professional Society Winner
- DRS Daylight Solutions Award for Optics and Photonics Professional Society Winner
- Institute of Electrical and Electronics Engineers Professional Society Winner
- San Diego Astronomy Association Professional Society Winner

Booth #863

Individual Junior Division Plant Sciences

TITLE: *"Wifi the Death to Plants?"*

By: Jodie Marie Cagayao

Attending: St. Michael Academy San Diego 7th Grade

Advised by: Marilyn Escalante

PLACEMENT: 2nd

AWARDS WON:

- Price-Pottenger Nutrition Foundation Professional Society Winner

Booth #870

Individual Junior Division Plant Sciences

TITLE: *"Effect of Elements on Plants"*

By: Rozita Kareem

Attending: Bright Horizon Academy 6-8 8th Grade

Advised by: Najwan Naserelddin

PLACEMENT: 2nd

AWARDS WON:

- San Diego Zoo Global Professional Society Honorable Mention

Booth #888

Individual Junior Division Plant Sciences

TITLE: *"The Effect of Extra Water on Closely Spaced Plants"*

By: Rebecca Venger

Attending: Soille San Diego Hebrew Day School 8th Grade

Advised by: Matt Bessler

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Honorable Mention

Booth #901

Individual Junior Division Product Testing/Consumer Science

TITLE: *"Harvesting Water: Testing the Effectiveness of Various Sized Mesh in Fog Nets"*

By: Anusha Chatha

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner

Booth #904

Individual Junior Division Product Testing/Consumer Science

TITLE: *"Comparing the Effectiveness of Various Face Masks in Blocking Coarse and Fine Particulates"*

By: Cameron Do

Attending: The Rhoades School 8th Grade

Advised by: Roxanne Hunker

PLACEMENT: 1st

Selected as Alternate for (cancelled) California State Science & Engineering Fair

AWARDS WON:

- San Diego Post of the Society of American Military Engineers Professional Society Winner
- California School Nurse Organization: San Diego/Imperial Section Professional Society Honorable Mention

Booth #913

Individual Junior Division Product Testing/Consumer Science

TITLE: *"Soaking Up the Sun"*

By: Katie Hayek

Attending: St. Peter the Apostle Catholic School 8th Grade

Advised by: Theodore Fantano

PLACEMENT: 2nd

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Honorable Mention

Booth #927

Team Junior Division Product Testing/Consumer Science

TITLE: *"Bottle of the Brands"*

By: Margaret Nasry

By: Rosy Montejo

Attending: St. Peter the Apostle Catholic School 8th Grade

Advised by: Theodore Fantano

PLACEMENT: 1st

Invited to Attend (cancelled) California Science & Engineering Fair

Invited to apply for BROADCOM MASTERS competition

AWARDS WON:

- Association for Women in Science San Diego Chapter Professional Society Winner