



THE ENGLEWOOD CLIFFS EDUCATION FOUNDATION

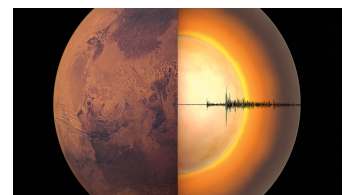
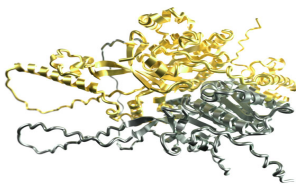
PRESENTS

*the 6th Annual Upper School*

# Science Fair!

March 24, 2022

6:30pm



# ACKNOWLEDGMENTS

WE WOULD LIKE TO THANK ALL OF THOSE WHOSE VISION AND HARD WORK HAVE MADE THIS EVENT POSSIBLE. IN PARTICULAR, WE WOULD LIKE TO ACKNOWLEDGE THE FOLLOWING PEOPLE:



THE UPPER SCHOOL ADMINISTRATION



WITH SPECIAL THANKS TO DR. JENNIFER BROWER,

MR. COLIN WINCH AND MRS. ADDY VALDES



OUR JUDGES: MS. ELISE ANDERSEN, MS. JACLYN AURIEMMA,

MR. FRED GALLO, MS. CASEY MCGINLEY, AND

MR. ANDREW MENEILLY



EACH OF THE STUDENT PARTICIPANTS AND THEIR PARENTS



OUR CUSTODIAL STAFF

AND



MRS. ANGELA AHN & MS. MELISSA LORENC, WHOSE WILL AND

CREATIVITY CARRIED OUR SCIENCE FAIR TRADITION ON THROUGH

UNCERTAIN AND CHALLENGING TIMES . WE COULD NOT DO THIS

WITHOUT YOU.

# THE PROGRAM

 INTRODUCTORY REMARKS - CARRIE TONG KAKKANATT, ECEF

 ACKNOWLEDGMENTS - MELISSA LORENC, FACULTY ADVISOR

 ANNOUNCEMENTS - ANGELA AHN, FACULTY ADVISOR

 6TH GRADE PARTICIPANT CERTIFICATES - MRS. AHN

 7TH & 8TH GRADE PARTICIPANT CERTIFICATES - Ms. LORENC

 AWARDS - MRS. AHN & Ms. LORENC

# THE PROJECTS

## THE SIXTH GRADE

<u>Name</u>	<u>Project #</u>	<u>Inquiry</u>
Kira Bang	16	Which type of masks effectively prevent the spread of bacteria?
Hayden Chung	12	Which golf ball actually goes the farthest?
Lauren Kim	13	What is the best technique for seed germination?
Madelyn Kim	14	Spherification Molecular Gastronomy
Abigail Lee	10	What makes ice melt faster: Sodium chloride, calcium chloride, or potassium chloride?
Jaehyun Ryu	11	Normal vinyl vs bubble wrap: Which is more effective to keep the house warm?
Max Selick	17	How does the color of a picture affect how much someone remembers it?
Dominic Sinisi	18	How does the amount of water affect how fast it boils?
Lui Spini	15	Can we slow down sublimation of dry ice in different containers?

# THE PROJECTS

## THE SEVENTH GRADE

<u>Name</u>	<u>Project #</u>	<u>Inquiry</u>
Sarah Andriescu	3	Which cleaning wipe brand kills the most germs?
Gianzack Chariell	6	Does the color of a drink change the taste?
Charles Kakkanatt	2	Can meditation improve athletic performance?
Daniil Kashlikov	4	Wind turbine output: The effect of blade pitch
Jonah Kim	7	How does music affect concentration?
Christopher Lau	5	How does pH level in hydroponic systems affect mung bean growth?
Claire Shi	8	Building with Mushroom Roots: Three-Point Flexural Test
Joanne Shyr	9	Could AI change the way we think about art and authenticity?

## THE EIGHTH GRADE

<u>Name</u>	<u>Project #</u>	<u>Inquiry</u>
Michael Haskell	1	Which kitchen waste creates the most biomass?

# ENGLEWOOD CLIFFS EDUCATION FOUNDATION

## **OFFICERS:**

JULIE CHARIELL, PRESIDENT

CARRIE TONG KAKKANATT, VICE PRESIDENT

ROSANNA MANGONE STRUHS, TREASURER

AICHIA WANG, ASST. TREASURER

ADRIANA FUNG, SECRETARY

## **BOARD OF TRUSTEES:**

CATHY BANG

JAE KIM

DINA ZHANG

THE ECEF IS A NONPROFIT ORGANIZATION THAT SEEKS COMMUNITY SUPPORT AND CONTRIBUTION TO ENHANCE THE QUALITY OF OUR STUDENTS' EDUCATION. OUR MISSION IS TO FUND INNOVATIVE SCHOOL PROGRAMS AND INFRASTRUCTURE THAT ARE NOT PART OF THE PUBLIC SCHOOL BUDGET. PAST FUNDING HAS INCLUDED:

- TRANSFORMING THE UPPER SCHOOL LIBRARY INTO A STATE OF THE ART **MEDIA CENTER**, INCLUDING THE **MAKER SPACE** AND **CLIFFS COMMONS**.
- BRICKS4KIDS STEM WORKSHOPS AT NORTH CLIFF & UPPER SCHOOL
- THE UPPER SCHOOL SPELLING BEE
- THE UPPER SCHOOL MUSICALS, INCLUDING NEW HIGH PERFORMANCE AUDIO EQUIPMENT FOR PETER PAN, WILLY WONKA, THE LITTLE MERMAID, ANNIE, & FROZEN.
- ASSEMBLIES THROUGHOUT THE YEAR, INCLUDING VISITS FROM CAMDEN AQUARIUM, LIBERTY SCIENCE CENTER, AND MORE
- FUNDING FOR TEACHER INITIATED GRANTS, SUCH AS THE WATER BOTTLE CONTEST TO DECREASE THE SCHOOL DISTRICT'S IMPACT ON THE ENVIRONMENT
- CONTRIBUTION OF OVER \$50,000 TOWARDS THE UPGRADE OF THE WIRELESS NETWORK AT NORTH CLIFF AND UPPER SCHOOL

## **COMING THIS SPRING**

- ONLINE AUCTION - MARCH 2022
- UPPER SCHOOL MUSICAL - "BEAUTY & THE BEAST" - MAY 2022
- HIGH SCHOOL PANEL - JUNE 2022

# **BECOME A VOLUNTEER OR TRUSTEE!**

**ARE YOU TECH SAVVY, GOOD AT GRAPHIC DESIGN, EXPERIENCED IN FINANCIAL MATTERS? OR DO YOU HAVE JUST A COUPLE OF HOURS TO SPARE TO PITCH IN WHERE NEEDED? THE ECEF COULD USE YOUR VALUABLE SKILLS! DEVOTE AS LITTLE OR AS MUCH TIME AS YOU CAN. GET INVOLVED, WHATEVER YOUR BACKGROUND, AND HELP ENRICH THE EDUCATIONAL LIVES OF THE STUDENTS OF ENGLEWOOD CLIFFS. PLEASE CONTACT [INFO@EC-EF.ORG](mailto:INFO@EC-EF.ORG) FOR DETAILS!**

## **TWO MORE EASY WAYS TO SUPPORT ECEF**

### **CONNECTONE BANK AFFINITY PROGRAM**

**STOP BY ANY CONNECTONE BANK BRANCH AND LINK YOUR ACCOUNTS TO THE ENGLEWOOD CLIFFS EDUCATION FOUNDATION THROUGH ITS AFFINITY BANKING PROGRAM. CONNECTONE BANK WILL DONATE ITS OWN MONEY TO THE ECEF BASED ON A PERCENTAGE OF THE AVERAGE BALANCE OF ALL TAGGED ACCOUNTS. SIMPLY ASK YOUR BANKER TO LINK YOUR ACCOUNT TO THE ECEF AFFINITY PROGRAM, AT NO COST TO YOU!**

### **AMAZON SMILE: YOU SHOP, AMAZON GIVES**

**AMAZONSMILE IS A SIMPLE AND AUTOMATIC WAY TO SUPPORT THE ECEF. WHEN YOU SHOP AT [SMILE.AMAZON.COM](https://smile.amazon.com), AMAZON WILL DONATE 0.5% OF THE PURCHASE PRICE TO THE ECEF. SIMPLY GO TO [SMILE.AMAZON.COM](https://smile.amazon.com) FROM YOUR BROWSER. WHEN PROMPTED, SELECT ENGLEWOOD CLIFFS EDUCATION FOUNDATION INC. TO RECEIVE THE DONATIONS. YOUR CURRENT AMAZON ACCOUNT STAYS THE SAME!**

