



2024 MARM CHEMAGINATION

Saturday, June 8, 2024

Verne M. Willamen Gateway to the Sciences

The Pennsylvania State University

University Park, PA

Sponsored by the Middle Atlantic Regional Meeting Board

and the

52nd Middle Atlantic Regional Meeting

CHEMAGINATION PROGRAM

12:00 pm – 1:00 pm

Poster Set-up & Lunch

1:00 pm – 3:00 pm

Poster Session & Judging

3:00 pm – 4:00 pm

Tour of PSU Chemistry Department
for Chemagination Students

4:00 pm – 5:00 pm

Award Ceremony

CONTESTANTS

Environment

E1 – *“Hydro Harvest”*, Alexandra D'Alessio, Eliana Eisenberg and Malika Salehmohamed, Half Hollow Hills High School West

E2 – *“Filters of the Ocean”*, Ashley De Los Santos, Jaela Eaton and William Howk, Muhlenberg High School

E4 – *“Making Forever Chemicals Temporary: A Novel Hybrid Metal-Organic Framework for the Removal of PFAS”*, Adalinda Guarcax, Bridget Liu and Samantha Liu

E5 – *“Carbon Recapture Devices: the Chore That Saves the World”*, James Heller, Poyraz Ozer and Christopher Samuel, Friends' Central School

CONTESTANTS

Medicine/Health

MH1 – *“Kalirouna - The Future of Pain”*, Rachel Braverman, Benson W. Huang and Eryk Kaczocha, Half Hollow Hills High School West

MH2 – *“Unlocking the Cure: Chemistry's Role in Defeating Cystic Fibrosis”*, Jocelyn Fernandez and Kimberly Reynoso, Muhlenberg High School

MH3 – *“One Print Away: The Future of Osteoarthritis”*, Aristha Dey and Princie Shah, West Windsor-Plainsboro High School South

MH4 – *“Mechanical Ballet: Orchestrating Molecular Egress”*, Nancy Dong and Alyana Marie Ventura, Fort Lee High School

MH6 – *“What Can you Discover from Analyzing Brainwaves?”*, Lucy Buchanan and Rebecca Lucy, The Grier School

MH7 – *“Miraculous Cancer-Fighting Molecule Derived from a Magical Plant, Cancerkilla Chemaginationa, in Amazon Rainforest”*, Sean Reid and Yurui Xie, Walt Whitman High School

CONTESTANTS

Alternative Energy

AE3 – *“The Secret Behind the Sparkle”*, Manan Patel and Jagan Rajeev, Hillsborough High School

AE4 – *Harvesting Hurricanes: The Endless Energy of Natural Disasters*”, Eric Kim and Max Trigub, Bergen County Academies

New Materials

NM1 – *“An Electric Innovation”*, Evan Deutsch, Rahim Sheikh and Alan Yu, Half Hollow Hills High School West

NM2 – *“Bamboo Made Toys”*, Olivia Lisa, Sophia Luigard and Autumn Mease, Muhlenberg High School

NM4 – *“Sticky Situation; A New Alternative To Traditional Adhesives”*, Owen Beckerman and Inseo Kang, Fort Lee High School

FACULTY ADVISORS

Charles Bartolotta, Half Hollow Hills High School West

Patricia Konstantinova, Fort Lee High School

Gregory Miller, Walt Whitman High School

Kaitlyn Myers, The Grier School

Karen Randazzo, Hillsborough High School

Audrey Smeltzer-Schwab, Muhlenberg High School

Christine Tjersland, Half Hollow Hills High School West

Karel Villanueva, West Windsor-Plainsboro HS South

Melanie Wills, Friends' Central School



The Middle Atlantic Regional Meeting Board of the American Chemical Society (ACS) and Organizing Committee of the 2024 Middle Atlantic Regional Meeting thank the dedicated science teachers who supervised and encouraged the efforts of the students competing today.

We also extend our sincere thanks to the judges, contest organizers, the Pennsylvania State University graduate students and other volunteers who have donated their time to make Chemagination a great experience for the students.



