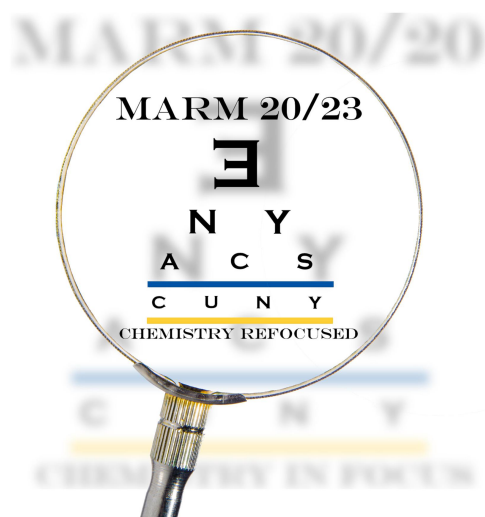




2023 MARM CHEMAGINATION

Saturday, June 10, 2023

St John's University
Queens, NY



Sponsored by the Middle Atlantic Regional Meeting Board and the
51st Middle Atlantic Regional Meeting of the ACS

FACULTY ADVISORS

Diane Buckius, Gwynedd Mercy Academy High School

Tori Flaherty, Garden City High School

David Friedman, General Douglas MacArthur High School

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Christine Tjersland, Half Hollow Hills High School West

Karel Villanueva, West Windsor-Plainsboro HS South

Herb Weiss, South Side High School

Mark Wlaadyslawski, Bethlehem Catholic High School, Inc.

Matthew Zausin, General Douglas MacArthur High School

CHEMAGINATION PROGRAM

Room DAC 416A / 416B

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 SJU Chemistry and other
Science Departments

4:00 pm – 5:00 pm

Award Ceremony

CONTESTANTS

Alternative Energy

AE1 – *“Exploring Salt Concentrations; Harnessing the Power of Electricity”*, Sean Conway, Logan Daab and Rudy Scalise, Garden City High School

AE2 – *“Thorium (Almost) Infinite Energy”*, Reid F Bagans and Jackson Smith, Muhlenberg High School

AE3 – *“Nuclear Fusion: Limitless Applications of Limitless Energy”*, Ajay Desai, Atharva Katkar and Vinay Panchal, Hillsborough High School

AE4 – *“Seawater Powers the World: How thermonuclear energy helped replace fossil fuels with seawater”*, Paolo Arcuri, Gianna Conte and Abigail Fearon, Fort Lee High School County Academies

CONTESTANTS

Environment

E1 – *“Harnessing Earth’s Natural Processes to Encourage Carbon Sequestration”*, Noah Feigenbaum, Sergio Rosa and Avery Testa, South Side High School

E2 – *“Methane: Revolutionizing Protein”*, David Markwood and Kendra Montalvo, Muhlenberg High School

E3 – *“Novel Black Carbon Filtration with Sonic Agglomeration and Nanofibers”*, Sumedha Jayaraman and Leo Li, West Windsor-Plainsboro High School South

E4 – *“Algae: King of Sustainability”*, Ellie Choi, Seohyun Kim and Bridget Liu, Bergen County Technical High School

CONTESTANTS

Medicine/Health

MH1 – *“Ataraxia; the Solution to 'Space Insomnia”*,
Rayan Afzal, Jacob Park and Dylan Stone, Half Hollow
Hills High School West

MH2 – *“Artificial Blood: A Revolution in Medicine”*,
Calliope Padilla and Judy Pintor, Bethlehem Catholic
High School, Inc.

MH4 – *“Bee Cancer Free (Curing 1 Illness at a Time with
Melittin)”*, Eugene Hwang, Joseph Kim and Chaemin
Yeo, Fort Lee High School

CONTESTANTS

New Materials

NM1 – *“GemGuard Necklace”*, Allyssa Rhianna Aquino, Meeghan Campbell and Catherine Purirojejananon, General Douglas MacArthur High School

NM2 – *“Lunar 3D Printing: Regolith Structures”*, Leonardo Carbajal, Salem Davis and Andrea Santiago, Muhlenberg High School

NM3 – *“Multi-Layer Graphene”*, Khushboo Etai and Anushka Kaluskar, West Windsor-Plainsboro High School - South

NM4 – *“PneumoPatch: A Revolutionary Nano-technology Approach to Reducing Pulmonary Fibrosis”*. Michelle Cheon, Jiho Choi and Elizabeth Kam, Fort Lee High School

NM5 – *“Sustainable Clothing: Happier Earth, Happier Me”*, Calliope Beatty and Lucy Ke, Gwynedd Mercy Academy High School



The Middle Atlantic Regional Meeting Board of the American Chemical Society (ACS) and Organizing Committee of the 2023 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, St. John's University graduate students and other volunteers who have donated their time to make Chemagination a great experience for the students.

