

NYSUNWORKS

YOUTH CONFERENCE

Discovering Sustainability Science

05.18.2020

CLICK [HERE](#) TO WATCH:

10:30AM - 12:00PM • 2:00PM - 3:30PM • 8:00PM - 9:30PM

PROGRAM

Welcome Remarks from Emcee Stephanie Hsu | 10:30am • 2:00pm • 8:00pm

Maxanne Wallace-Segall, Rona Wassercug, Julia Barney: *Let's Flood Freddie!*

Jacqueline Avignone: *Does Mulch Color Really Have A Beneficial Effect On Bean Plant Growth?*

Zayan Husain: *DIY Hydroponics*

Claire Zimba, Ksenia Yehorysheva, Lucia Waddell Rodriguez: *Brassica Oleracea: The Vegetable Miracle*

Jenn Frymark: Chief Greenhouse Officer, Gotham Greens | 10:46am • 2:16pm • 8:16pm

Eva Das, Sasha Horvath, Olivia Walker, Winny Zheng Zheng: *The Steer of Sustainability in School Communities*

Alexandra Good: *Doomsday Vault*

Niamh Zanghi: *Creating the Optimum Environment for Thalassia Testudinum Growth*

Emily Malefyt: *The Effect of Temperature on Plant Growth*

Layla Bursor: *Hydroponics at Home*

Gioia Massa: Why Grow Plants in Space? | 11:10am • 2:40pm • 8:40pm

Jack Papalia: *Terracycling: Recycling the Non-recyclable at MSC*

Sebastian Fraccari: *Bioremediation of Gowanus Canal Water: A Riparian Buffer Approach*

Will Rankin: *Microplastics: Small Things Big Problems*

Chloë Saffire-Klein: *The Story of My Plastic*

Kylie Galvin: *Creating a Hydroponics System from Recycled Materials*

Kyle Jeremiah and Phil Vos: Organic "Wastes": A Valuable Resource for a Sustainable Energy Future | 11:37am • 3:07 pm • 8:07pm

Nicole Aquino: *The Effect of Music on Plants*

Rianna Jeter, Jacob Gardana, Mia Gonzalez: *Science At Home*

Leslie Chen: *Mimosa Pudica As a Plant-based Sensor for Spinal Cord Stimulator*

Josephine Chen, Leilah Sharhan, Justin Chen: *Recycling Rockwool*

Shenkeri "Nika" Chandramohan: YUNO Biotactical Drinks | 11:55am • 3:25pm • 8:25pm



THANK YOU TO THIS YEAR'S PARTICIPATING SCHOOLS!

PS 333 The Manhattan School For Children • Edward R. Murrow High School
PS 199 Jessie Isador Straus • West End Secondary School • PS 176 The Ovington School
St. Saviour High School • PS 377 Alejandrina B. De Gautier

SPECIAL GUESTS



Jenn Frymark

Before joining Gotham Greens as its chief greenhouse officer in 2009, Jenn Frymark designed and operated greenhouses and indoor farming facilities around the world. She has extensive experience in greenhouse system design, plant nutrition, crop and pest management, sensors and controls, and staff training. Previously, Jenn worked at the controlled environment agriculture center and managed greenhouses in antarctica, providing fresh vegetables for U.S. research scientists. She also worked in the greenhouse at the Cuisinart Resort and Spa in Anguilla and designed and led operations for the NY Sun Works Science Barge in New York City. Jenn earned a master's degree in plant sciences from the University of Arizona and a bachelor's degree in plant biology from Arizona State University.



Gioia Massa

Gioia Massa is a NASA scientist at Kennedy Space Center working on space crop production for the international space station and future exploration endeavors. She led the science team for the VEGGIE hardware validation on the space station and she heads an interdisciplinary group to study fertilizer and light impacts on nutrition and flavor of VEGGIE-grown crops. In addition to VEGGIE she helps with science needs for other space station hardware and works with external PIs to get their science to function on station. She also is involved with education and outreach programs related to plants in space. She has a B.S. in plant science from Cornell, a Ph.D in plant biology from Penn State, and postdoctoral research from Purdue and Kennedy Space Center. She has worked in the areas of plant space biology and bioregenerative life support.



Phil Vos and Kyle Jeremiah, Energy Vision

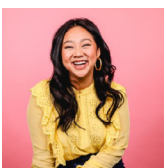
Energy Vision is an NYC-based national environmental ngo working to advance commercial and cost-effective options for a carbon-free economy. Our current primary focus is preventing methane emissions—a potent greenhouse gas that comes from the decay of food scraps, farm waste, and other organic materials—by turning them into a renewable energy resource. Kyle Jeremiah is Energy Vision's communications & community outreach coordinator. In this role, he heads up social media and community sustainability projects, primarily around food scrap diversion and recycling on academic campuses. Phil Vos is Energy Vision's program director, where he is responsible for research and outreach across a range of New York (city and state) initiatives.



Shenkeri "Nika" Chandramohan

Shenkeri Chandramohan, who usually goes by Nika, is a food and sustainability scientist and an avid advocate of public health policies. In 2017 she started her first company—Food to Heal—to develop functional meals utilizing a diverse combination of natural ingredients to help improve the working experience of optimized functional teams. In early 2019, she co-founded YUNO Biotactical Drinks. Currently, YUNO Biotactical Drinks is on Indiegogo, and Nika is maintaining a zero-waste company with partnerships with GroundedUpcycling for our residue to be turned into sustainable soil and promote the growth of mushrooms and collaboration with Terracycle for their packaging. Nika aims to bridge the opportunity to boost the aspect of sustainability as part of different lifestyles through the lenses of gutbrain health, food, and public health.

MEET THE EMCEE



Stephanie Hsu

Stephanie is super excited to return to host this year's NYSW Annual Youth Conference! She has performed all over the city from downtown to uptown, as well as playing the role of Mei in "The Marvelous Mrs. Maisel". She made her Broadway debut as Karen The Computer in SpongeBob Squarepants The Musical, and as the star of the hit Broadway musical Be More Chill, she received Lucille Lortel and Drama Desk Award Nominations. And you can see her on the screen in "The Path", "Femme", "Set It Up", "Unbreakable Kimmy Schmidt", and "Girl Code". Stephanie is a graduate of NYU and is passionate about science, sustainability and urban farming. When she is not performing she can be found pickling radishes and fantasizing about a life with an herb garden and maybe even an avocado tree. For more, follow @hsulace.

www.nysunworks.org