

### American Institute of Chemical Engineers, Cleveland Local Section #017

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**Wednesday, April 19, 2023, 6 PM**

### AIChE Awards Banquet for NEOSEF Students

Moderated by: Joseph Spagnuolo, PE, Holistic Engineering, Inc., Westlake, OH

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**Abstract:** Today we are celebrating the AIChE Special Judging Awards to students that participated in the 2023 NEOSEF. The NEOSEF was established in 1953, the Northeastern Ohio Science and Engineering Fair (NEOSEF) is a non-profit, all volunteer organization, whose goal is to get young adults interested in science and engineering by participating in a science and engineering competition. The Fair has been held every year since 1954 and is affiliated with the Intel International Science and Engineering Fair (ISEF).

During the event, approximately 300 students from over 50 schools in the area provided virtual science fair presentations to discuss their projects with 260+ judges and compete for more than \$20,000 in prizes. One of the most rewarding aspects of NEOSEF is the opportunity for the students to discuss their research with professional scientists and engineers from the local area.

At the fair students compete in nine categories which are subdivided by grade levels. NEOSEF awards one 1st place, and multiple 2nd place, 3rd place and honorable mentions per subdivision. Students also compete for over 300 Special Awards totaling more than \$15,000 that are donated by companies, societies and organizations.

NEOSEF selects students to move on to the next levels of competition: The International Science and Engineering Fair (ISEF) and Society for Science and the Public Broadcom MASTERS Program. NEOSEF selects up to four 9-12th Grade Grand Prize Winners to attend ISEF where they compete with almost 1,500 students from all over the world for over \$4,000,000 in scholarships and prizes. NEOSEF also nominates students from grades 7-8 to compete in the [Broadcom Masters Program](#) competition.

Since 2000, NEOSEF Grand Prize Winners have earned:

Three 4th Place awards  
Two 3rd Place awards  
Three 2nd Place awards  
Three 1st Place awards  
and two Best of Category Awards  
along with many Special Awards at the ISEF

NEOSEF has also had 44 Semi-Finalists and  
4 Finalists in the Broadcom Master's Program.



#### April 19, 2023 AIChE Awards to NEOSEF Students

**Amber Ellis**....."Preventing Flatbergs, Comparison of Flushable and Non-Flushable Wipes"  
**John Anand**....."Predicting Incidence of Disease in U.S. ...using a Model with Machine Learning"  
**Sean Morad**....."Power – Pack"  
**Stone Rambert**....."Designing Sogno la Velocita"  
**William Monaghan**....."Supersonic with Sugar"  
**Allen Yu**....."Exploring the Benefits of Fungi in Soil Conservation"

#### **Moderator Biography:**

Mr. Joseph Spagnuolo, PE is presently the President of Holistic Engineering, Inc. since it was incorporated in 1996. Mr. Spagnuolo earned his Fellow membership status at AIChE in 2014. In 1981, Mr. Spagnuolo earned his MBA in Systems Management from Baldwin Wallace University. Mr. Spagnuolo has over 40 plus years' experience where he worked with industrial water treatment in the power plant, steel mill, paper mill, chemical and automotive industries. Mr. Spagnuolo earned his license as a registered professional engineer in 1971 and graduated in 1970 from Cleveland State University with a Bachelor of Science Degree in Chemical Engineering (**53 years**). Presently, Mr. Spagnuolo is the AIChE Cleveland Section Vice Chair.

*The AIChE April meeting will be at the Cleveland State University, Washkewicz College of Engineering in Cleveland, Ohio. It will be on the 4<sup>th</sup> Floor. Parking will be in the East Garage entrance from Chester Avenue just west of East 30<sup>th</sup> Street.*

*Please RSVP by April 17<sup>th</sup> with Joe Spagnuolo at his Email attached below. Thank you!*

**Meeting Location:** *Cleveland State University, Washkewicz Hall Building, 4<sup>th</sup> Floor, Rm. 405*

**Meeting Parking:** East Garage, elevator to 3<sup>rd</sup> Floor Inner-Link Bridge  
(all indoor walkway from parking to meeting WH building elevator)

**East Garage (EG)** Parking: 2506 Chester Ave. (east lane), Cleveland, 44115

Follow **Inner-Link** green line marking along 3<sup>rd</sup> floor from **EG** bridge to **WH**

**Washkewicz Hall (WH)** Address: 2300 Chester Avenue, Rm. 405

6:00 – 6:45 pm: CSU ChE Lab Tours

6:45 – 7:30 pm: Dinner

7:30 – 8:30 pm: NEOSEF Presentations

**Cost:** Students \$0, AIChE members \$15 (cash please)

**Menu:** Chicken Quesadillas with Sour Cream & Salsa; Vegetable Spring Rolls with sweet Soy Sauce; Classic Cheese Tray; Fresh Fruit Platter; Beef Satay with Peanut Sauce; Buffalo Cauliflower Wings with Vegan Ranch; Black Angus Mini Cheeseburger Sliders with Sriracha Ketchup; Assorted Craveworthy Cookies.

**RSVP by Monday, April 17<sup>th</sup>** with Joe Spagnuolo at: [joejspags@gmail.com](mailto:joejspags@gmail.com)



**Cleveland Section 017 of  
THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS  
Steering Committee 2022 - 2023**

