

**Susquehanna Valley Section  
American Chemical Society**

**Annual  
Education Awards  
Banquet**



**Pine Barn Inn  
Danville, Pennsylvania**

May 1, 2024

5:30 p.m.



## EXAM A WINNERS

EVELYN WENG	Montoursville Area High School Teacher – Ms. Natalie Smith
ELLA BURKE	Scranton Preparatory School Teacher – Ms. Donna Barrett
MICHAEL KLAMP	Abington Heights High School Teacher – Ms. Carolyn Siwak
RICHARDO DELGADO	Wyoming Seminary College Prep. School Teacher – Dr. Andrea Nerozzi
SOPHIA YOHANNES	Danville Area High School Teacher – Mr. Paul Dennehy

## EXAM B RUNNERS-UP

SPENCER SOLOMON	South Williamsport Jr/Sr High School Teacher – Mr. Matthew Eisley
LIAM MILLER	Honesdale High School Teacher – Ms. Michelle Tonkin

## EXAM B WINNERS

ZACCHEUS MILLER	Jersey Shore Area High School Teacher – Mr. Alex Hunter
NOAH PARFREY	Abington Heights High School Teacher – Ms. Carolyn Siwak

### VIII. College Award Winners ..... *Dr. William Kerber*

DYLAN BEREZIN	Commonwealth University - Bloomsburg
ALLY RICHWINE	Bucknell University
SYDNEY K. BACHMAN	King's College
JACKSON GARIPPA	Misericordia University
DOMINICK SPERA	University of Scranton
ERIC RESSLER	Susquehanna University

### IX. "Inquiry-based Physical Chemistry: Observable Sensory Experiments with Chocolate and lessons from the great chocolatiers"

Mr. Jamie Jurado

This presentation involves participation of attendees... to taste chocolate. The term "physical chemistry" was coined by Mikhail Lomonosov at St. Petersburg University in 1752, when he presented a lecture course entitled "A Course in True Physical Chemistry" where the scholar defined it: "Physical chemistry is the science that must explain under provisions of physical experiments the reason for what is happening in

complex bodies through chemical operations.” As we enter the wonderful and ancient, noble world of chocolate, our guests tonight asked to become scientists at their tables, performing physical experiments, ask their own questions, make observations about the appearance, texture, taste and feel of their chocolate samples. Specifically, we will explore colligative properties, thermochemistry, and explore the phase rule while enjoying fine chocolates.

## BIOGRAPHY

Jaime Jurado has his B.Sc. in chemical engineering, his M.Sc. in electrical engineering, and performed study and research in medical engineering at Oxford University as a postgraduate for 30 months. His 39 years of work have been in beverages such as beer, distilled spirits, botanical soft drinks, and non-alcoholic beers, but he recently enjoyed 15 months in a large chocolate plant in Hazelton. His publications represent his work in engineering and chemistry. He has one patent pending. His last presentation to the Susquehanna Valley Section was in 2012....at the Awards Banquet presenter. He is a past presenter at ACS and AIChE national and regional conferences. Besides the US, he has been invited to deliver chemical engineering seminars in Australia, Canada, Ireland, Germany and Great Britain. He has served as President of the Master Brewers Association of the Americas, and represented the American Malting Barley Association on a special technical visit to Kenya to present awards to researchers leading the research in fighting the wheat and barley contagion Ug99 which first presented itself to the world in Ugandan wheat fields.

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The American Chemical Society (ACS) is a nonprofit scientific and educational association of professional chemists and chemical engineers. Although the Society is primarily an American organization, virtually every nation is represented among its over 151,000 members.

Some of the many programs sponsored by the ACS are meetings, publications, education, awards, and public service activities, including National Chemistry Week. Each year, 1,500 ACS meetings are held at the local, regional, national, and divisional levels. Over seventy-five ACS journals are the leading resources in the chemical field. Educational activities include services to high school and college chemistry students and continuing education programs for its members. The ACS presents numerous awards for outstanding achievement in various fields of chemistry through national, regional, divisional, and local channels. Fellowships and research grants for basic research are administered by the society.

The Susquehanna Valley Section of the ACS includes members from eight counties in central to northeastern Pennsylvania.