

complex bodies through chemical operations.” As we enter the wonderful and ancient, noble world of chocolate, our guests tonight are 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 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.....as 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.

2024 ACS SUSQUEHANNA VALLEY SECTION OFFICERS

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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.

Susquehanna Valley Section American Chemical Society

Annual Education Awards Banquet



**Pine Barn Inn
Danville, Pennsylvania**

May 1, 2024

5:30 p.m.

PROGRAM

I. Welcome and Introductions*Dr. Allison Saunders*

II. Joseph Priestley Service Award*Dr. Allison Saunders*
DR. WILLIAM DOUGHERTY
Susquehanna University

III. Ron Blatchley High School Chemistry Teacher of the Year Award.....*Mr. Ronald Blatchley*

MR. MATTHEW EISLEY
South Williamsport Jr/Sr High School

IV. National Chemistry Week Award.....*Dr. Donald Mencer*

3-5 Category
SOPHIA REINER
Upper Dauphin Area School District
Teacher – Ms. Madison Renn

6-8 Category
GARRISON REINER
Upper Dauphin Area School District
Teacher – Ms. Emily Renn

9-12 Category
SAANI ORTIZ
Upper Dauphin Area School District
Teacher – Mr. Todd Smertz

V. David H. Frederick Memorial Awards in High School Chemistry *Dr. Holly Bendorf*

EXAM A RUNNERS-UP

BLAKE ROTHERMEL
Line Mountain High School
Teacher – Dr. Herb-Fausey

CLARA KLINE
Selinsgrove Area High School
Teacher – Ms. Tracy Hepner

CAMERON KRUSHNOWSKI
Old Forge Junior Senior High School
Teacher – Ms. Adrianna Rupprecht

RAYMOND CHEN
Mid Valley Secondary Center
Teacher – Dr. Jacob Banik

PRESTON ZADZURA
Hanover Area Jr/Sr High School
Teacher – Dr. Jocelyn Holodick-Reed

MAIA BURRY
Wyoming Seminary College Prep. School
Teacher – Ms. Patricia Strazdus

GWEN SIMBAR
Wyoming Seminary College Prep. School
Teacher – Mr. Philip Mercatili

JOSEPHINE MORGAN
Berwick Area High School
Teacher – Ms. Christine Reader

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