

Fifty-Third Connecticut

JUNIOR SCIENCE and HUMANITIES SYMPOSIUM

**at the University of Connecticut
March 13 and 14, 2016**



**THE ACADEMY OF APPLIED SCIENCE
under contract with
THE U.S. ARMY, NAVY, AIR FORCE and
THE UNIVERSITY OF CONNECTICUT**

OBJECTIVES

...To promote research and experimentation in the sciences, mathematics, and engineering at the high school level;

...To recognize the significance of research in human affairs, the importance of humane and ethical principles in the application of research results;

...To search out talented youth and their teachers, recognize their accomplishments at symposia, and encourage their continued interest and participation in the sciences, mathematics, and engineering;

...To expand the horizons of research-oriented students by exposing them to opportunities in the academic, industrial, and governmental communities;

...To enlarge the number of future adults capable of conducting research and development.

A part of

THE U.S. ARMY/NAVY/AIR FORCE JUNIOR SCIENCE AND HUMANITIES SYMPOSIA PROGRAM

with support from

THE UNIVERSITY OF CONNECTICUT

and

CONNECTICUT ACADEMY OF SCIENCE AND ENGINEERING

**Fifty-Third Connecticut
JUNIOR SCIENCE and HUMANITIES SYMPOSIUM at the
University of Connecticut**

SUNDAY, MARCH 13, 2016

REGISTRATION

2:00 – 2:45 p.m. Student Union, Room 330

OPENING

3:00 – 4:15 p.m. Student Union, Room 330

Welcome

Michael Accorsi
Senior Associate Dean
School of Engineering
University of Connecticut

Briefing

Frank LaBanca
CT-JSHS Executive Committee

Address

Jonathan Mellor, Assistant Professor
Dept. of Civil & Environmental Engineering
Ryan Cordier '18 (ENG)
Kristin Burnham '19 (ENG, CLAS)
Joy Larson, Project Coordinator
University of Connecticut
"Ethiopia Water Project - Engineers without Borders"

POSTER PRESENTATIONS/STEM POSTER EXHIBITION/REFRESHMENT BREAK
4:15 – 5:15 p.m.

Student Poster Presentations -- Student Union, Room 310

Kylie Fawcett

Bridgeport Regional Aquaculture Science and
Technology Education Center

Mentor: Kirk Shadle

*Analyzing the use of Moon Jellyfish (Aurelia
aurita) Collagen as a Viable Alternative in
Medical Applications*

Vanessa Hansen-Quartey & Chinanu Gubor

Yale Peabody Museum of Natural History

Mentor: Drew Gentner

*Volatile Organic Compound Emissions at
New Haven Sites*

Paul Han

Glastonbury High School

Mentor: Diane Pintavalle

*A Survey of Audio Modulation Techniques
in Solid State Tesla Coils*

Reshanna Homma

Glastonbury High School

Mentor: Marc Hansen

*Identification of Differentially Expressed Genes
of Membrane-Bound Proteins as Potential
Targets for Osteosarcoma Therapy*

Abigail Kelly

Sacred Heart Academy

Mentor: Donald Caldwell

*A Method to Minimize Disease in West Africa:
The Conversion of Fruit Crops into Ethanol for
Disinfectant Use*

Lauren Low

Engineering & Science University Magnet
School

Mentor: Heather Toothaker

*An Evaluation of the Accuracy of an Advanced
Nanoribbon Microfluidic System to Measure
Cytokine Concentration*

Kanika Malani

Glastonbury High School

Mentor: Marc Hansen

*Significance of the Amount of Expression of
BMP2 on Different Stages, Histological
Phenotypes, and Clinical Outcomes of OS
tumors*

Monkia Metro

Bridgeport Regional Aquaculture Science and
Technology Education Center

Mentor: Kirk Shadle

*Bioencapsulation of Vitamin D3 in Brine
Shrimp to Determine the Shrimp's Efficacy As
a Delivery Mechanism*

Kristen Moran

Darien High School

Mentor: Bhart-Anjan Bhullar

The Origin of Birds

Neha Pashankar

Amity Regional High School

Mentor: Irina Esterlis

*Comparing mGluR5 Availability Between
Patients with Bipolar Depression, Major
Depression Disorder and Healthy Controls
Using PET*

Danielle Peterson

Bridgeport Regional Aquaculture Science and
Technology Education Center

Mentor: Kirk Shadle

*Development of a Zero Net Energy Hydrogen
Fuel Cell System for the Purpose of
Generating Potable Water*

Hannah Rappaport

Amity Regional High School

Mentor: Philip Corlett

Sense of Control and Perception

Anna Ryack

Amity Regional High school

Mentor: Michael Nizhnikov

*The Relationship Between Impulsivity and Prenatal Alcohol Exposure in Rats***Simon Stone**

Greens Farms Academy

Mentor: Mathieu Freeman

*Optimization of the Venturi Effect With Applications in Horizontal-Axis Hydroelectric Turbines For the Maximization of Power Coefficients***Lauren Telesz**

Greens Farms Academy

Mentor: Gil Mor

*Development of an in vitro Model of Trophoblast Growth and Invasion***Akhil Trehan**

Hamden Hall Country Day School

Mentor: Frank Gasparro

*The Effect of Oligonucleotide Sequence and Thermal Stability on Novel Psoralen Photochemistry***Katie Tsui**

Darien High School

Mentor: Yu-dong Zhou

*The Influence of the LGI-1 Gene on Cognition of APP/PS1 Alzheimer's Disease Mouse Models***STEM Poster Exhibition — Student Union, Room 304****Samuel Applegate**

Hamden Hall Country Day School

Mentor: Frank P. Gasparro

*The Effect of Varying Wavelengths of LED Light on Solanine Production in Red Potatoes***Jane Bredahl**

Darien High School

Mentor: Corey Eddy

*The Creation of Growth Curves for Lionfish Utilizing Information from Otoliths***Sarah Beck**

Bridgeport Regional Aquaculture Science and Technology Education Center

Mentor: Kirk Shadle

*Modified Compost Leachate as a Narrow Spectrum Targeting Herbicide***Elizabeth Ashton, Tess Cicala, Matthew McCutcheon, and Danielle Martin**

Wooster School

Mentor: Evelyn Fetridge

*Using Mouthwash May Have Little Effect on Microbiome Diversity and Abundance in the Human Mouth***Andrew Benz**

Darien High School

Mentor: Will Heher

*Accelerating Combinatorial Attacks on Lattice-based Cryptosystems Using GPU Computing***Gabriella Colletti**

Avon High School

Mentor: Gregory Dunford

*Determining the Admissibility of Handwriting Forensic Analysis Testimonies of Forgery Based Documents in Court***Nitya Bhattarai**

Amity Regional High School

Mentor: Arjun Aryal

Spatial Distribution Analysis of Damages Caused by Recent Earthquakes in Nepal

Zachary Dillon

Bridgeport Regional Aquaculture Science and
Technology Education Center

Mentor: Kirk Shadle

*Novel Application of an Electromagnetic
Induction Field to Inhibit Surface Bio-Fouling in
the Marine Environment*

Branden Fernandes & Max Matejka

Joel Barlow High School

Mentor: Katherine Nuzzo

*A Novel Procedural Method for the Preparation
of Photovoltaic Perovskite Solar Cells*

Maya Geradi

Wilbur Cross High School

Mentor: Caroline Dahm

*Exploring Conditions for Optimizing Struvite
Precipitation and Crystal Growth*

Dahlia Ghoshal

Glastonbury High School

Mentor: Kourosh Parham

*How Cisplatin, An Anti-Cancer Drug, Affects
Hearing*

Alfred Green

Bridgeport Regional Aquaculture Science &
Technology Education Center

Mentor: Kirk Shadle

*Utilizing the Mating Calls of the Spring Peeper
(Pseudacris crucifer) to Indicate Environmental
Changes in the Species's Surrounding Ecosystem*

Niyati Hora

Glastonbury High School

Mentor: Jessica Costa

*Comparative Modeling of Signal Peptidase I
Whole Exome Sequence Analysis of Sporadic
Ossifying Fibroma*

Erica Im

Greens Farms Academy

Mentor: Mathieu Freeman

*Effect of He-Ne laser on Oral Bacteria,
Streptococcus mutans, using Gram stain*

Robert Marcus

Greens Farms Academy

Mentor: Mathieu Freeman

*Design and Construction of a 3D-Printed
Carbon Fiber Semi Autonomous Intelligent
Powered Exoskeleton for Spinal Cord Injury
Patient General Use and Rehabilitation*

Christian Marini

Joel Barlow High School

Mentor: Katherine Nuzzo

*A Novel Application of Biochar Providing
Economic and Environmental Benefits*

Jasmine Moon

Amity Regional High School

Mentor: William Graf

*The Effect of Functional Ankyloglossia on
Speech Problems*

Josie Morales-Thomason

Wooster School

Mentor: Evelyn Fetridge

*Human Microbiome May Become More Similar
With Age*

Rafat Quazi

Manchester High School

Mentor: Megan Rader

*The Effects of Swaddling and Heavy Blankets on
Student's Test Anxiety*

Lauren Rutledge

Darien High School

Mentor: Will Heher

*The Future to Our Food Sources: The Reduction
of the Feed Conversion Ratio in an Aquaponics
System*

Morgan Schroeter

Canton High School

Mentor: Stephen Riley

*How Does UV Light Affect the Lifespan of
Bacteria?*

John Solomon

Canton High School

Mentor: Stephen Riley

Lasing Dyes: A Study of Rhodamine-6G

Ryan Weinstein

Joel Barlow High School

Mentor: Katherine Nuzzo

*A Study of the Effects of Temperature on Carbon Dioxide Intake of Crassulacean Acid Metabolism Plants***Lillian Zhang**

Amity Regional High School

Mentor: Barbara Kazmierczak

*The Effect of Sub-minimal Inhibitory Concentration of Antibiotics on the Bacterial Swimming***SCIENCE PRESENTATION**

5:15 – 6:15 p.m.

Student Union, Room 330

Tabetha Boyajian

Astronomer

Post-Doctoral Fellow

Yale University

"Extraordinary Claims Require Extraordinary Evidence"

6:30 – 7:30 p.m.

Banquet

Student Union, Room 330

EVENING RECREATION

8:30 – 10:00 p.m.

Evening Activities

Hawley Armory

9:00 p.m.

Night Snack

10:30 p.m.

Lights Out

MONDAY, MARCH 14, 2016

FIRST STUDENT ORAL SESSION

9:00 – 10:15 a.m. Information Technology Engineering Building, Room C80

Aakshi Agarwal

Hamden High School

Mentor: Priti Kumar

CRISPR-based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)

Sofia Azmal

Engineering & Science University Magnet School

Yale Peabody Museum

Mentor: Valeria Aucapina

Controlled Hydrothermal Growth of Zinc Oxide Nanorods Through Block Copolymerization

Danielle Cai

Glastonbury High School

Mentor: Jing Zhao

Effectiveness of Amino Acid-Functionalized Gold Nanoparticles for Colorimetric Detection of Mercury in Water

Sarishka Desai

Darien High School

Mentor: E. Premkumar Reddy

Identification of Novel Small Molecules that Bind to K-Ras and PI3K γ RBDs, Two Major Protein Components involved in the Deregulation of the Cell Cycle in Hematological Cancers

Thomas Diorio

Ridgefield High School

Mentor: Kenn Devane

Using Genetic Programming to Analyze the Relationship Between Vitiligo's Predisposing Factors

REFRESHMENT BREAK / POSTER VIEWING

10:15 – 10:30 a.m. Information Technology Engineering Building Lobby

SECOND STUDENT ORAL SESSION

10:35 a.m. – 12:15 p.m. Information Technology Engineering Building, Room C80

Katherine Handler

Amity Regional High School

Mentors: David Post and Amanda Subalusky

Succession Variations in Kenyan Scavenger Communities and the Importance of Wildebeest Carcasses

Paul Hansel

Greenwich High School

Mentor: A.T. Charlie Johnson

An Antibody-Functionalized Graphene Transistor Lab-On-A-Chip for Selective Detection of Malaria Pathogens

Brenden Jones

Grove School

Mentor: Richard Kissel

An In-Depth Study of the Evolution from Dinosaurs to Birds

Randy Kaufman

Bridgeport Regional Aquaculture Science and Technology Education Center

Mentor: Kirk Shadle

Triboelectric Series and its Relation Concerning Power Generation in Triboelectric Nanogenerators

Victoria Li

Amity Regional High School

Mentor: Susan Kaech

Improving Cancer Immunity by Blocking a Tumor's Sugar Addiction through Enolase Suppression

LUNCH

12:15 – 12:55 p.m.

Information Technology Engineering Building Lobby

PRESENTERS LUNCH

12:15 – 12:55 p.m.

Information Technology Engineering Building, Room 336
A lunch for presenters, their mentors,
JSHS Executive Committee and Judges

THIRD STUDENT ORAL SESSION

1:00 – 2:15 p.m. Information Technology Engineering Building, Room C80

Ryan Oleynik

Amity Regional High School

Mentor: Mu-Ping Nieh

Aggregation of Phospholipid Based Vesicle Using Triblock Polymer

Jennifer Schwartz

Ridgefield High School

Mentor: Alan Eastman

The Induction of Apoptosis in Leukemia and Lymphoma Cell Lines by Small Molecule Inhibitors through Inhibition of Antiapoptotic Proteins

Jonathan Stimpson

Darien High School

Mentor: Daniel Freedberg

The Relationship Between Exposure to Proton Pump Inhibitors and Risk for Bacteremia in ICU Patients: A Retrospective Cohort Study

Sara Tavakoli

Glastonbury High School

Mentor: Behnoush Hajian

Structure-Activity Relationship Study of Dual Inhibitors of Streptococcus Pyogenes and Methicillin-resistant Staphylococcus Aureus

LABORATORY TOURS for Students and Teachers

2:20 – 4:30 p.m. Originating in Information Technology Lobby
As assigned on name tag

MODERATORS AND JUDGES MEETING

2:15 – 4:15 p.m. Information Technology Engineering Building, Room 336

REFRESHMENT BREAK

4:30 – 4:45 p.m. Information Technology Engineering Building Lobby

AWARDS PRESENTATIONS

4:45 – 5:30 p.m. Information Technology Engineering Building, Room C80

Students

- Javon Adote, New Haven Academy
- * Aakshi Agarwal, Hamden High School
- Figen Agis, Mercy High School
- Libby Albanese, Joel Barlow High School
- Arfan Ali, Manchester High School
- Rachelle Ambroise, Academy of Our Lady of Mercy at Lauralton Hall
- Amelia Antonucci, Hamden High School
- *** Samuel Applegate, Hamden Hall Country Day School
- *** Elizabeth Ashton, Wooster School
- * Sofia Azmal, Engineering & Science University Magnet School
- Rick Basak, Hamden High School
- *** Sara Beck, Bridgeport Regional Aquaculture Science and Technology Education Center
- *** Andrew Benz, Darien High School
- Elyse Bergeron, Putnam High School
- *** Nitya Bhattarai, Amity Regional High School
- Christelle Bibo, Manchester High School
- Samuel Bidwell, Hall High School
- Lily Bournival, Coginchaug Regional High School
- Margaret Bove, Litchfield High School
- Trisha Brady, Jonathon Law High School
- Jahz Branch, New Haven Academy
- *** Jane Bredahl, Darien High School
- JJ Brentson, West Haven High School
- Jack Breton, Greater Hartford Academy of Mathematics and Science
- Aneeka Britto, Ridgefield High School
- Erin Brown, Sacred Heart High School
- Heather Brown, Sacred Heart High School
- * Danielle Cai, Glastonbury High School
- Jackson Cashman, Ridgefield High School
- Alivia Castle, Bristol Eastern High School
- Nicolas Cazzangia, Bethel High School
- Leelakrishna Channa, Glastonbury High School
- Ajitha Chivukula, Bethel High School
- Eugenia Cho, Mercy High School
- Hannah Chua-Reyes, Mercy High School
- *** Tess Cicala, Wooster School
- *** Gabriella Colletti, Avon High School
- Rachel Conover, Northwest Catholic High School
- Kaleigh Conway, Darien High School
- Bryan Coppinger, Joel Barlow High School
- Jacob Corolla, New Haven Academy
- Andre Costa, Conard High School
- Thomas Costello, Conard High School
- Teddy Criscuolo, Amity Regional High School

Hannah Curran, Litchfield High School
 Brianna Cyr, Sacred Heart High School
 Jay Dalal, Manchester High School
 Lani Davidoff, Hall High School
 Whitney Davis, Hamden High school
 Harrison Dayton, Bristol Eastern High School
 Alfred DeLeon, Sacred Heart High School
 * Sarishka Desai, Darien High School
 Elizabeth Devine, Hall High School
 Cheyenne Dibble, Manchester High School
 *** Zachary Dillon, Bridgeport Regional Aquaculture Science and Technology Education Center
 * Thomas Diorio, Ridgefield High School
 Mahoghany Dolberry, Darien High School
 Henry Dowling, Greenwich High School
 Aysa Dunne, Manchester High School
 Andrew Duval, Killingly High School
 Veronica Eskander, Northwest Catholic High School
 Evelyn Fabian, West Haven High School
 ** Kylie Fawcett, Bridgeport Regional Aquaculture Science and Technology Education Center
 Dean Fazzino, The Academy of Aerospace and Engineering
 *** Branden Fernandes, Joel Barlow High School
 Emily Galvao , Sacred Heart High School
 Robert Geissler, Grove School
 *** Maya Geradi, Wilbur Cross High School
 Virginia Gerig, Staples High School
 *** Dahlia Ghoshal, Glastonbury High School
 Daniel Gitelman, Hall High School
 Colman Glagovich, Hall High School
 Jordana Graveley, Conard High School
 Tawana Gray, Hamden High School
 *** Alfred Green, Bridgeport Regional Aquaculture Science & Technology Education Center
 Rachel Guay, Sacred Heart High School
 ** Chinanu Gubor, Hill Regional Career High School
 ** Paul Han, Glastonbury High School
 Adele Hancock, Joel Barlow High School
 * Katherine Handler, Amity Regional High School
 * Paul Hansel, Greenwich High School
 ** Vanessa Hansen-Quartey, Engineering & Science University Magnet School
 Ben Harris, Glastonbury High School
 Brian Henderson, New Haven Academy
 Lydia Henning, Hall High School
 ** Reshana Homma, Glastonbury High School
 *** Niyati Hora, Glastonbury High School
 Khundker Hossain, Manchester High School
 Ding Howard, Amity Regional High School
 Kristjana Hyka, West Haven High School

*** Erica Im, Greens Farms Academy
 Daniel Islam, Bethel High School
 Meghana Jaladanki, Jonathan Law High School
 Katharine Jessen, Northwest Catholic High School
 Sarah Jessen, Northwest Catholic High School
 Denise Jimbo, Bristol Central High School
 Topanxha Joana, Manchester High School
 Kayla Johnson, Hamden High School
 Mitchell Johnson, Glastonbury High School
 * Brenden Jones, Grove School
 Aditi Joshi, Hall High School
 Ananya Kachru, Amity Regional High School
 Chris Kaczegowicz, Joel Barlow High School
 Vijay Kadiyala, Greenwich High School
 * Randy Kaufman, Bridgeport Regional Aquaculture Science and Technology Education Center
 ** Abigail Kelly, Sacred Heart Academy
 Emma Kelly, Bristol Eastern High School
 Taylor Keyt, Manchester High School
 Priti Khire, Amity Regional High School
 Mihir Khunte, Xavier High School
 Cristina Kontogiannis, Joel Barlow High School
 Laura Kunkel, Northwest Catholic High School
 Jacob Kustra, Bristol Eastern High School
 Sophia Ladyzhets, Glastonbury High School
 Jessica Lam, Joel Barlow High School
 Emily Lancor, Hamden High School
 David Landolfi, Wilbur Cross High School
 Karen Lang, Ridgefield High School
 Patrick Lang, Ridgefield High School
 Paul Lapaan , Bristol Eastern High School
 Vinh-Kha Le, Conard High School
 Elizabeth LeBlanc, Northwest Catholic High School
 Hanaisha Lewis, New Haven Academy
 Alice Li, West Haven High School
 Connor Li, Greenwich High School
 Jessica Li, Glastonbury High School
 * Victoria Li, Amity Regional High School
 ** Lauren Low, Engineering & Science University Magnet School
 Jessica MacIntyre, Bethel High School
 Molly Magarian, Academy of Our Lady of Mercy at Lauralton Hall
 Pavitra Rao Makarla, Bethel High School
 ** Kanika Malani, Glastonbury High School
 *** Robert Marcus, Greens Farms Academy
 *** Christian Marini, Joel Barlow High School
 Alexandria McCormick, Glastonbury High School
 *** Matthew McCutcheon, Wooster School

Jaiden McMorris, New Haven Academy
Ryan McNeil, Xavier High School
Katherine Meehan, Amity Regional High School
Peyton Mello, Litchfield High School
Juan Pablo Mesa, West Haven High School
** Monika Metro, Bridgeport Regional Aquaculture Science and Technology Education Center
Morgan Mettler, Wooster School
Luc Milam, Xavier High School
Grace Miller, Hall High School
Meghan Mitnick, Sacred Heart High School
*** Jasmine Moon, Amity Regional High School
*** Josie Morales-Thomason, Wooster School
** Kristen Moran, Darien High School
Katharine Morris, Bridgeport Regional Aquaculture Science and Technology Education Center
Irvie Mumar, West Haven High School
Eva Murphy, Ridgefield High School
Lauren Murphy, Northwest Catholic High School
Brett Myskowski, Xavier High School
Tatiana Naclerio, Joel Barlow High School
Sreenidhi Nair, Greater Hartford Academy of Mathematics and Science/Academy of Aerospace and Engineering
Jordan Negron, Jonathan Law
Julia Nguyen, Conard High School
Briskin Noah, Grove School
Leon Novak, Greater Hartford Academy of Mathematics and Science
* Ryan Oleynik, Amity Regional High School
Alexandra Opoka, Bristol Eastern High School
Sofia Orrico, Bethel High School
Andres Pacheco, West Haven High School
Amelia Packard, Glastonbury High School
Joshua Palmer, East Haven High School
Taylor Pane, Northwest Catholic High School
** Neha Pashankar, Amity Regional High School
Ketaki Pawar, Academy of Aerospace and Engineering
Shawn Perry, Glastonbury High School
Nazair Peters, New Haven Academy
** Danielle Peterson, Bridgeport Regional Aquaculture Science and Technology Education Center
Brenden Picard, Putnam High School
Natalie Pinkowski, Glastonbury High School
Ryan Polistena, Bethel High School
Charles Pratt, Ridgefield High School
*** Rafat Quazi, Manchester High School/Academy of Aerospace and Engineering
Taryn Rahman, Manchester High School
Ekam Rai, Bethel High School
Kavita Rana, Jonathan Law High School
** Hannah Rappaport, Amity Regional High School

Theodore Reed, Greater Hartford Academy of Mathematics and Science
Skylynn Reyes, Bridgeport Regional Aquaculture Science and Technology Education Center
Will Rief, Joel Barlow High School
Jill Rodgers, Bethel High School
Avriana Rodriguez, New Haven Academy
Ben Ruffing, Joel Barlow High School
Benjamin Russ, Xavier High School
Rachel Russell, Yale Peabody Museum
*** Lauren Rutledge, Darien High School
** Anna Ryack, Amity Regional High School
Connor Sandagata, Hamden Hall Country Day School
Katerine Santiago, New Haven Academy
Alex Scheck, Ridgefield High School
*** Morgan Schroeter, Canton High School
* Jennifer Schwartz, Ridgefield High School
Emily Senecal, Conard High School
Melissa Shea, West Haven High School
Emily Shen, Glastonbury High School
Paige Sheridan, West Haven High School
Jenasia Shuler, Mercy High School
Oviance Shuler, New Haven Academy
Julia Silverman, Hall High School
Gagganpreet Singh, Bristol Central High School
Amanda Slesinski, Academy of Our Lady of Mercy at Luralton Hall
India Sloane, West Haven High School
Natalie Smith, Northwest Catholic High School
Yashaswini Soleti, Academy of Our Lady of Mercy at Luralton Hall
*** John Solomon, Canton High School
Donovan Soucy, Bristol Eastern High School
Brianna St.Onge, Bristol Central High School
Emily Stadnicki, Bristol Eastern High School
Erin Stangel, Old Saybrook Senior High School
Emily Stanwood, Coginchaug Regional High School
* Johnathan Stimpson, Darien High School
** Simon Stone, Greens Farms Academy
Gabrielle Stonoha, Manchester High School
Gwenyth Stuard, Bethel High School
Katelyn Sun, Joel Barlow High School
Hadyn Sundgren, Bristol Central High School
Nicholas Szabo, Greenwich High School
Tim Tamallanca, Joel Barlow High School
* Sara Tavakoli, Glastonbury High School
Zachary Taylor, Xavier High School
** Lauren Telesz, Greens Farms Academy
Francis Thomas, Ridgefield High School
Ruth Tian, Conard High School

- ** Akhil Trehan, Hamden Hall Country Day School
- Nicole Truskowski, Bristol Central High School
- ** Katie Tsui, Darien High School
- Zachary Tu, Hamden High School
- Katerina Valente, Sacred Heart High School
- Nicholas Van Den Nieuwenhuizen, Ridgefield High School
- Matthew Varnum, Bristol Central High School
- Haile Velazquez, Bristol Central High School
- Allyson Voelker, Northwest Catholic High School
- Casey Walters, Bristol Central High School
- Claire Wang, Hamden Hall Country Day School
- Hong Wei ting, Northwest Catholic High School
- *** Ryan Weinstein, Joel Barlow High School
- Taylor Westbrook, Glastonbury High School
- Wayde Whichard, Yale Peabody Museum
- Alexa Wilson, Greater Hartford Academy Of Mathematics And Science
- Hunter Woitowitz, Xavier High School
- Grant Worthington, Joel Barlow High School
- Kevin Yanagisawa, Amity Regional High School
- William Yin, Greenwich High School
- Rain Yuan, Northwest Catholic High School
- *** Lillian Zhang, Amity Regional High School
- Ziwei Zhou, Hamden Hall Country Day School
- Brianna Zipke, Bristol Central High School
- Kayla Zmayefski, Killingly High School

* Oral Presenter

** Poster Presenter

*** STEM Exhibition Participant

Teachers

Ann Marie Aguiar, Hamden High School
David Applegate, Xavier High School
Andrew Bramante, Greenwich High School
Michael Cassone, East Haven High School
Deborah Day, Amity Regional High School
Birdsall Dean, Litchfield High School
Kevin Dickson, West Haven High School
Greg Dunford, Avon High School
Evelyn Fetridge, Wooster School
Francis P Gasparro, Hamden Hall Country Day School
William Heher, Darien High School
Keirsten Huttig Williams, Simsbury High School
Chris Lener, Wooster School
Emily MacMelburn, New Haven Academy
Andrea Motto, Peabody Museum Evolutions Program
Katherine Nuzzo, Joel Barlow High School
Jennifer Piehler, Killingly High School
Diane Pintavalle, Glastonbury High School
Joanne Poffenberger, West Haven High School
Santiago Reyes, The Grove School
Kirk Shadle, Bridgeport Regional Aquaculture Science and Technology Education Center
Nicole Shook, Bristol Central High School
Marissa Stankiewicz, Putnam High School
Raymond Turek, Bethel High School
Melanie Vetrano, Bristol Eastern High School
Jaci White, Northwest Catholic High School

Notes

COOPERATING ORGANIZATIONS

Connecticut State Board of Education
Connecticut Science Teachers Association, Inc.
Connecticut Science Supervisors Association
Connecticut Association of Secondary Schools
Connecticut Association of Independent Schools, Inc.
Educators for Responsible Science
National Association of Secondary School Principals

EXECUTIVE COMMITTEE - CONNECTICUT JSHS

Jonathan Craig, Talcott Mountain Science Center, Avon
Terri Clark, Connecticut Academy of Science and Engineering, Middletown
Deborah Day, Amity High School, Woodbridge
Joy Erickson, Director, CT-JSHS, University of Connecticut
Robert Erickson, Pratt & Whitney, East Hartford
Sandra Justin, Neag School of Education, University of Connecticut
Frank LaBanca, Principal, Westside Middle School Academy Magnet, Danbury
John Lisorti, Killingly High School, Danielson
Diane Pintavalle, Glastonbury High School, Glastonbury
Timothy Reid, East Hartford High School, East Hartford
James Sulzen, Neag School of Education, University of Connecticut
Jon Swanson, Edwin O. Smith High School, Storrs
Ralph Yulo, Eastern Connecticut State University, Willimantic

STUDENT PRESENTATION MODERATORS

Terri Clark	Robert Erickson
Associate Director	Manufacturing Engineer
Connecticut Academy of	Pratt & Whitney
Science and Engineering	United Technologies Corporation
Rocky Hill, CT	East Hartford, CT

Fifty-Third Connecticut
JUNIOR SCIENCE and HUMANITIES SYMPOSIUM

The University of Connecticut March 13 and 14, 2016

WEBSITE: <http://ctjshs.uconn.edu>
E-MAIL: joy.erickson@uconn.edu