Welcome to the 2018 Iowa Regional Junior Science and Humanities Symposium March 5–6, 2018

On behalf of The U.S. Army Research Office, the Office of Naval Research, the Air Force Office of Scientific Research, the Academy of Applied Science, The University of Iowa, and the Belin-Blank Center for Gifted Education and Talent Development CONGRATULATIONS TO ALL THE STUDENT RESEARCH PRESENTERS and to those representing the State of Iowa at the 56th National Junior Science and Humanities Symposium, which will be held in Hunt Valley, MD, May 2–5, 2018.

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The University of Iowa
Belin-Blank Center
600 Blank Honors Center
The University of Iowa
Iowa City, Iowa 52242-0454
education.uiowa.edu/belinblank
MONDAY, MARCH 5, 2018

8:00–8:30  JSHS Check-in

8:30–9:00  Presentation of Colors
Welcome — Dr. Susan Assouline, Director, Belin-Blank Center for Gifted Education and Talent Development
Introduction of Judges — Brian Douglas, Co-Director JSHS

9:00–9:20  CHERYL BLACKMER
Ballard High School
Development of a LAMP Assay for the Detection of Powassan Virus

9:20–9:40  ALLISON BRASCH
Waterloo West High School
Effects of Ethanol on Zebrafish Embryo Development

9:40–10:00  MASON BURLAGE
Beckman Catholic High School
Evaluation of 3D Mycelial Mattress Scaffolding for use in Tissue Engineering

10:00–10:10  Morning tour line up
10:10–10:15  Load tour buses for departure

10:00–10:20  PRANAV CHHALIYIL
Maharishi School of the Age of Enlightenment
metagenomics analysis of Bedtime oral cleaning by the novel GIft method, shows a reduction in dental-damaging Bacteria

10:20–10:40  BRIANNA COLE
Valley High School
Cumulative Effects of Recurrent Amygdala Kindled Seizures on Respiratory Function

10:40–10:55  Break

10:55–11:15  AVA DEPPING
Madrid High School
Investigation of the Madrid Community’s Response to Food Insecurity

11:15–11:35  MEGAN ERTL
Beckman Catholic High School
Quantification of Muscle Accelerations to Interpret Individual Fatigue as an Industrial Application

11:35–11:55  SERENITY HAYNES
Central Lee High School
How Much Bacteria are on Restaurant Menus? Phase III

11:55–12:15  SEAN KLUESNER
Beckman Catholic High School
Plastic Biodegradation via Galleria mellonella and Tenebrio molitor

12:00  Tour buses return
12:15–1:40  Student lunch on own, Teacher/mentor networking lunch at the Marriott

1:40–2:00  PEARL KRIEGER COBLE
Winfield-Mt. Union High School
Analysis of Carbonic Acid impact on Neritina natalensis and Daphnia magna

2:00–2:10  Afternoon tour line up
2:10–2:15  Load tour buses for departure

2:00–2:20  KAYLA LIVESAY
Van Buren High School
Assessing the Efficiency of Macronutrients for Zea maize Growth and Acclimation

2:20–2:40  KATHRYN MCCARTHY
Sioux City East High School
The Effects of Carbaryl-based Products on Armadillidiidae vulgarbe Behavior and Habitat Selection

2:40–3:00  EVYLIN MERYDITH
Keokuk High School
Crude Oil on Aquatic Environments

3:00–3:15  Break

3:15–3:35  TYLER MONTGOMERY
Kennedy High School
Effect of Saturnian Moon Mass on Saturnian Ring System

3:35–3:55  ELIZABETH SMITH
Waterloo West High School
The Relationship Between Severity of Oak Tatters and Proximity to Agricultural Fields

3:55–4:15  LAURA STOWATER
Algona High School
Effects of Activated Water on Top Growth Mass of Lepidium sativum

4:00  Tour buses return

4:15–4:35  SHELBY WESTHOFF
Beckman Catholic High School
Microbial Inactivation by Ultraviolet Light for Bovine Milk Phase Two

4:35–4:55  AARON WILLS
Central Lee High School
Engineered Environmental Containment: Using Lemna minor L. to Reduce Nitrate Levels in Aquatic Environments

5:00–5:30  Hotel Check-in at the JSHS registration desk
5:30–8:30  Student dinner & evening activities on own
8:30–10:30  Trivia contest and snacks at the Marriott

TUESDAY, MARCH 6, 2018

8:00–9:00  Breakfast buffet
9:00–11:00  Welcome — Dr. Lori Ihrig, Co-Director, JSHS
Opening Remarks — Colonel Kenneth Letcher, Commanding Officer of the Joint Manufacturing Technology Center
Keynote — Dr. Hanna Stevens, Assistant Professor of Psychiatry
Awards Presentation — LTC Zach Buettner, Professor of Military Science
Closing Remarks — Brian Douglas, Co-Director, JSHS

11:00–12:00  Hotel check out at front desk