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## **Believe in Ohio Program Announces Winners of Its 2<sup>nd</sup> Annual STEM Commercialization and Business Plan State Competition**

### **144 High School Students from 44 Ohio High Schools to Receive \$500,000 in Scholarships & Awards**

Columbus (May 18, 2016) ... The Believe in Ohio program today announced the list of students who were awarded scholarship and awards at its 2<sup>nd</sup> Annual STEM Commercialization and Business Plan Competition. 144 high school students, from 44 Ohio high schools in 24 counties were selected to receive \$500,000 in scholarships and cash awards from participating in the State Competition. Scholarship awards may be used at any Ohio college or university, public or private. As one of the goals of the Believe in Ohio program is to help address Ohio's "brain drain" challenge and to encourage Ohio high school students to make their futures in Ohio, students who choose to go to college outside of Ohio will receive a \$1,000 cash award to be applied towards their education in lieu of a larger Ohio scholarship award.

Believe in Ohio's State Competition is the culmination of a process that began with competitions at the local high school level qualifying student for a regional competition. As such the plans that were recognized at the State Competition represent the top 2% of all student plans prepared at the local high school level during the 2015-2016 school year.

Believe in Ohio is a program of The Ohio Academy of Science and Entrepreneurial Engagement Ohio that was developed and is managed collaboratively between the two non-profit organizations. Together, these two organizations are teaching students about the linkage between STEM (Science, Technology, Engineering & Math) and entrepreneurship, which traditionally have been viewed as separate disciplines. These disciplines are the key elements to foster innovation and job creation in the 21st Century. The Believe in Ohio program was developed with the support of the Ohio Department of Higher Education and funded by the 130th Ohio General Assembly.

"Believe in Ohio is the best STEM program I have ever seen in Ohio. It exactly meets the demand for encouraging young people in STEM", stated Ms. Andrea Harpen, science teacher at Blanchester High School in Clinton County. Ms. Harpen, who is one of the 300 Ohio teachers who participated in Believe in Ohio during the 2015-2016 school year continued, "I see my students come alive and say things like 'This is the first I've really thought about a STEM career' and I've heard parents say, 'I've never seen my child work so hard.'"

At the State Competition, students presented their innovative Commercialization Plan and Business Plan ideas to four judge panels that consisted of STEM and business professionals. Ms. Brandy Powell, Vice President - Variable Speed Technologies at Emerson Climate Technologies in Sidney, Ohio, who was one of the 57 judges, commented, "Today was my first day witnessing high schoolers in person presenting their ideas, and I'll tell you, I was blown away with what I saw. I encourage the State of Ohio to continue to support this program. It's vitally important for our youth to know that people believe in them, and supporting them with Ohio scholarships is a great idea. We simply must keep this talent in the State of Ohio because they are our future."

“Our State Competition marks the culmination of a year of great accomplishment and growth for the Believe in Ohio program”, stated Mr. John Klipfell, Believe in Ohio Co-Director. “Not only did the number of schools participating in Believe in Ohio’s STEM plan competitions increase from 83 last year to 144, but the number of high school and middle school students who participated in developing STEM plans more than tripled from 2,750 to nearly 10,000 students. Altogether, the 2015-2016 school year was one of great benefit to Ohio’s students and our state’s ongoing prosperity”, concluded Klipfell.

To listen to video comments of students, parents, teachers and judges who participated in Believe in Ohio’s State Competition, visit: <http://www.ohioinnovates.org/sites/ohioinnovates/oi/bio2016comp.html>

To find out more about the Believe in Ohio program, visit [www.BelieveInOhio.org](http://www.BelieveInOhio.org) or call 614-914-5095.



### **About the Believe in Ohio program:**

Believe in Ohio is a comprehensive, free program developed by The Ohio Academy of Science and Entrepreneurial Engagement Ohio with the support of the Ohio Department of Higher Education and the 130<sup>th</sup> Ohio General Assembly that helps students prepare for the future.

The program helps prepare students to become “competitors” in Ohio's innovation economy and to be part of Ohio's next generation of innovators who will create the new product services and jobs of the future through the application of science, technology, engineering, and mathematics.

Believe in Ohio’s many programs and activities include:

1. **Regional STEM Commercialization and Entrepreneurship Forums** where High School and Middle School students interact with many of Ohio’s leading STEM researchers and innovators. During the last two years, more than 4,000 students, teachers and guests attended one of 15 Forums held all across the State of Ohio.
2. **STEM Video Gallery** including more than fifty 20-25 minute presentations that introduce High School and Middle School students to Ohio’s cutting edge research and development thought leaders.
3. **Six Regional Online Courses** that introduce Ohio’s High School and Middle School students to Ohio’s Innovation Economy.
4. **Local Competitions for student STEM Commercialization and STEM Business Plans.** (Note, High School and Middle School students compete in separate local competitions.)
5. **Statewide STEM Commercialization and STEM Business Plan Competitions** in which High School students are awarded hundreds of thousands of dollars in scholarships to Ohio colleges and universities.
6. **Urban STEM Mentor Programs** providing inspirational role models and mentors for Ohio’s urban youth.
7. **Professional Development and Resource Support Programs** for Ohio teachers.

For more information, visit the website at [www.BelieveInOhio.org](http://www.BelieveInOhio.org) or call Believe in Ohio at 614-914-5095.

### **About The Ohio Academy of Science:**

Since 1891, The Ohio Academy of Science has been promoting science and science education in Ohio as a membership based, volunteer-driven, not-for-profit organization. In addition to its pre-college student programs (Believe in Ohio, State Science Day, and Invention Convention), the Academy conducts an annual meeting which brings together scientists and students from all disciplines across the state and publishes an international, multidisciplinary, scientific journal. [www.ohiosci.org](http://www.ohiosci.org)

### **About Entrepreneurial Engagement Ohio:**

Entrepreneurial Engagement Ohio (EEO) is a 501(c)(3) Nonprofit Corporation formed for the educational and charitable purpose of promoting student and community awareness as to the challenges and opportunities the changing regional, national and global economies present for the future; and providing educational instruction, curriculum, mentoring and other information that helps develop the entrepreneurial, economic, business, and scientific literacy of students and the community that will be needed for the 21st Century. [www.EEOhio.org](http://www.EEOhio.org)



**Students from the following 44 Ohio high schools earned scholarships and awards at the Believe in Ohio 2016 STEM Commercialization Plan and STEM Business Plan Competition held on May 7, 2016:**

<u>County Name</u>	<u>School Name</u>	<u>City/Town</u>
Ashland	Loudonville High School	Loudonville
Brown	Eastern Brown High School	Winchester
Brown	Georgetown High School	Georgetown
Butler	Lakota East High School	Liberty Twp
Clinton	Blanchester High School	Blanchester
Columbiana	Columbiana High School	Columbiana
Cuyahoga	Brecksville-Broadview Hts High School	Broadview Hts
Cuyahoga	Gilmour Academy	Gates Mills
Cuyahoga	MC2STEM High School	Cleveland
Cuyahoga	Strongsville High School	Strongsville
Cuyahoga	University School	Hunting Valley
Darke	Bradford High School	Bradford
Darke	Tri-Village Jr/Sr High School	New Madison
Darke	Versailles High School	Versailles
Erie	Edison High School	Milan
Franklin	Gahanna Lincoln High School	Gahanna
Geauga	West Geauga High School	Chesterland
Lake	Mentor High School	Mentor
Logan	Benjamin Logan High School	Bellefontaine
Lorain	Horizon Science Academy Lorain	Lorain
Mahoning	Canfield High School	Canfield
Mahoning	Chaney High School Campus of VPA & STEM	Youngstown
Medina	Broadway Creek Homeschool Academy	Medina
Medina	Highland High School	Medina
Medina	Medina County Career Center	Medina
Medina	Wadsworth High School	Wadsworth
Mercer	St. Henry High School	St. Henry
Miami	Milton Union High School	West Milton
Miami	Piqua High School	Piqua
Miami	Tippecanoe High School	Tipp City
Montgomery	Miamisburg High School	Miamisburg

Montgomery	Oakwood High School	Oakwood
Preble	Eaton High School	Eaton
Shelby	Anna High School	Anna
Stark	Canton South High School	Canton
Stark	Hoover High School	North Canton
Stark	Minerva High School	Minerva
Summit	Hudson High School	Hudson
Summit	Revere High School	Richfield
Van Wert	Van Wert High School	Van Wert
Wayne	Northwestern High School	West Salem
Wayne	Norwayne High School	Creston
Wayne	Orrville High School	Orrville
Wayne	Triway High School	Wooster

# BELIEVE IN OHIO PROGRAM 2016 STATE INDIVIDUAL AND TEAM COMPETITION WINNERS

## WINNERS OF THE 2016 STEM BUSINESS PLAN STATE COMPETITION RECEIVING SCHOLARSHIPS TO OHIO COLLEGES AND UNIVERSITIES:

**GARY GATES** ▪ \$20,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ HOOVER HIGH SCHOOL ▪ *Streamr: Mobile Application Using Multipeer Technology to Stream Music Phone-To-Phone with Bluetooth and Other Wireless Networking Systems*

**TAYLOR REIHELD** ▪ \$20,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ LOUDONVILLE HIGH SCHOOL ▪ *Water Basin and Filter to Transform an Artist's Dirty Paint Water into Usable Water for Painting*

**DAN ACCORDINO** ▪ \$10,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ UNIVERSITY SCHOOL ▪ *Concierge App*

**SIMREEN KALA** ▪ \$10,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ HUDSON HIGH SCHOOL ▪ *Multi-Liner, a Customizable Cosmetic Product Which Includes Four Colors of Eyeliner in One Pen.*

**ALLISON KIEFER** ▪ \$10,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ LOUDONVILLE HIGH SCHOOL ▪ *The GPS Arrow: A Revolutionized Arrow System for Bow Hunting*

**VARUN RAGHURAM** ▪ \$10,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ HUDSON HIGH SCHOOL ▪ *Developing a Cure for Catheter Associated Urinary Tract Infections using Photoactivated Phosphorus Doped Titanium Dioxide*

**AKASH SALGIA** ▪ \$10,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ UNIVERSITY SCHOOL ▪ *Safe 4 Play*

**LINDSEY SCHULZE** ▪ \$10,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ ST. HENRY HIGH SCHOOL ▪ *Mile-Ager the Mileage Tracker to Measure Wear of Shoes to Prevent Injuries*

**MEIJUAN CAO** ▪ \$ 5,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ GILMOUR ACADEMY ▪ *U*

**DANA DOSEN** ▪ \$ 5,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ BRECKSVILLE-BROADVIEW HEIGHTS HIGH SCHOOL ▪ *ZipHelper*

**KYLI PARSONS** ▪ \$ 5,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ MILTON-UNION HIGH SCHOOL ▪ *Portable Foam Roller*

**EMMA STIEFEL, SARAH YANZSA, PARSHVA SHAH, JOHN MCALISTER** ▪ \$ 5,000 SCHOLARSHIP ▪ BUSINESS PLAN ▪ LAKOTA EAST HIGH SCHOOL ▪ *Noninvasive Urine Analysis Network (NUAN)*

## **WINNERS OF THE 2016 STEM COMMERCIALIZATION PLAN STATE COMPETITION RECEIVING SCHOLARSHIPS TO OHIO COLLEGES AND UNIVERSITIES:**

**KIYAL KELES** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HORIZON SCIENCE ACADEMY - LORAIN ▪ *Ethanol absorbing pectin pills*

**KOTARO KOJIMA** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ BROADWAY CREEK HOMESCHOOL ACADEMY ▪ *Development of On-Board Water-in-Diesel Emulsion (WiDE) Fuel System Utilizing Ultrasonic Cavitation to Realize Ultra Low-Emission Diesel Engines*

**HARBOR LOVIN, HUNTER COLLIER** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ BLANCHESTER HIGH SCHOOL ▪ *Automotive THC Detector*

**MICHAEL MADONIA** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *A Solution to Slipping on Yoga Mats*

**NIKKI MEHALIC** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ GAHANNA LINCOLN HIGH SCHOOL ▪ *Development of a Solar-Powered Water-Purification Device for Developing Countries*

**ZEYNEP OZGUR** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Filosoph: An Intelligent system that Enhances Social Communication*

**GLORIA TIE** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Proposed Manufacture of Antibacterial and Hydrophobic Textile*

**CLAUDIA WINSLETT** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ GILMOUR ACADEMY ▪ *Temperature Specific Color Changing Stickers*

**MERSADISE ZARTMAN, DOUGLAS BILLINGHAM** ▪ \$20,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ VAN WERT HIGH SCHOOL ▪ *Light-UP Motion Sensor Outlet Cover*

**SIERRA BENNETT** ▪ \$10,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ MIAMISBURG HIGH SCHOOL ▪ *Diabetic Management Application*

**REBECCA BERNING** ▪ \$10,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ ANNA HIGH SCHOOL ▪ *The Effectiveness of a Bingo Card Holder*

**KATHLEEN MITCHELTREE, SYDNEY CRAVENER** ▪ \$10,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Wristband Thermoregulator*

**KATHERINE NOAKES** ▪ \$10,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ CANFIELD HIGH SCHOOL ▪ *Bromothymol Blue Indicator for Muscle Pain*

**JOSEPHEEN SOVIK** ▪ \$10,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ EDISON HIGH SCHOOL ▪ *Autistic Blanket*

**RAHUL VENKATESH, ANDREW SAXER, ZACK MEDER, ZAK MYERS** ▪ \$10,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Eyedrops to Treat Myopia*

**TIMOTHY ANDREWS** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ TIPPECANOE HIGH SCHOOL ▪ *Using Hypobaric Refrigeration to Slow Produce Spoilage*

**SYDNEY BOOTH, KATHERINE BLOCK** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Buoy Device to Combat the Prominence of Harmful Algal Blooms*

**ELIJAH BORGMAN** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ MIAMISBURG HIGH SCHOOL ▪ *An Algorithm to Reduce Cost of Noise Cancellation in Visible Light Communication*

**GRACE CURTICIAN, MEGAN STUTLER** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ CANTON SOUTH HIGH SCHOOL ▪ *The modification on the Flowmill tool to reform surgical techniques which will improve patient outcomes using technological and design advancements*

**HANNAH FALKENBERG** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ TRIWAY HIGH SCHOOL ▪ *Medical Exam Table Paper: Utilizing Antimicrobial and Adhesive Technologies in the Physician's Office*

**MOLLY FRABOTTA, JIA WEI** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Preventing Needle-stick Injury*

**SHELBY GRIFFITH** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ GEORGETOWN JR/SR HIGH SCHOOL ▪ *Dumb Jock - Training Device for Hackney Ponies*

**GINA GRIMALDI** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Wireless Charging*

**DOMONIQUE GROTHAUSE, KATIE TRITTSCHUH** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ VAN WERT HIGH SCHOOL ▪ *Electronic Patient Information Circler*

**ISAAC KLINGMAN** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ NORWAYNE LOCAL SCHOOLS ▪ *A High Strength Steel Divider and Pushing Apparatus for the Aid in Hauling and Unloading Livestock*

**SEAN LACEY, LOGAN KENDALL** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ TRIWAY HIGH SCHOOL ▪ *SongNote*

**OMAR MANSOUR** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ MENTOR HIGH SCHOOL ▪ *Charity Minutes*

**ANDREW MAYSE** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ PIQUA HIGH SCHOOL ▪ *Thorium As An Alternative Energy Source*

**ALEXIA MILLER, JOHN WENGERD** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ TRIWAY HIGH SCHOOL ▪ *Genetically Altering Sweet Corn Kernels for the Purpose of Protein Enhancement by Using Commonly Known Genetic Modification Technology.*



**LEAH MULLIGAN** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *On-Board Thermal Imaging Sensor*

**KLOEY MURPHEY** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ TRI-VILLAGE HIGH SCHOOL ▪ *Heated Stadium Seat*

**NIKHIL NAIR** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ GILMOUR ACADEMY ▪ *Slip Prevention System for Walking on Icy Surfaces*

**SAM SCHAFFER, BRENDAN DAUGHERTY** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ BLANCHESTER HIGH SCHOOL ▪ *Wirelessly Rechargeable Cardiac Pacemaker Through Magnetic Induction*

**WAYNE STEGNER** ▪ \$ 5,000 SCHOLARSHIP ▪ COMMERCIALIZATION PLAN ▪ GAHANNA LINCOLN HIGH SCHOOL ▪ *The Development of an Autonomous Underwater Vehicle with Locomotion Inspired by the Atlantic Bluefin Tuna*

**WINNERS OF THE 2016 STEM COMMERCIALIZATION PLAN STATE COMPETITION RECEIVING \$1,000 CASH AWARDS TO BE APPLIED TOWARDS THEIR EDUCATION:**

**ADRIANNA BERNARDO** ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Periodontitis Treatment Floss*

**LYDIA BLACK** ▪ COMMERCIALIZATION PLAN ▪ MILTON-UNION HIGH SCHOOL ▪ *Magna-Cube Shelving Unit*

**HAILY BOHSE** ▪ COMMERCIALIZATION PLAN ▪ MILTON-UNION HIGH SCHOOL ▪ *Sensor Tech Equestrian Boots*

**JAY CHADDOCK, PEYTON MORGAN** ▪ COMMERCIALIZATION PLAN ▪ MINERVA HIGH SCHOOL ▪ *Smart Seat*

**ISABEL CHASNEY** ▪ COMMERCIALIZATION PLAN ▪ EDISON HIGH SCHOOL ▪ *Audio Translating Application (ATA)*

**REBEKAH COLLIVER** ▪ COMMERCIALIZATION PLAN ▪ EASTERN BROWN HIGH SCHOOL ▪ *Date-Rape Prevention Cup*

**AMBER CORE** ▪ COMMERCIALIZATION PLAN ▪ BENJAMIN LOGAN HIGH SCHOOL ▪ *Hemoglobin-Based Synthetic Blood Substitute*

**ANDREW CYPGAR** ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Sustainable Biohydrogen Production Using a Microbial Electrolysis Cell*

**ISTABRAQ DALIEH, EMMALINE KOWALSKI** ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *New Treatment for Tuberculosis*

**ANTHONY D'IPPOLITO, CAROLINE GRISWOLD, ALEXIS PAGE** ▪ COMMERCIALIZATION PLAN ▪ CANFIELD HIGH SCHOOL ▪ *Environmentally Friendly Agarose Microbeads*

**PHILIP EBERLY ▪ COMMERCIALIZATION PLAN ▪ NORTHWESTERN HIGH SCHOOL ▪ *Snacks for the Picky, the Busy and the Hungry: A user-friendly cookbook of nutritionally sound yet delicious snacks, intended for use by students.***

**KEENAN FRAYLICK ▪ COMMERCIALIZATION PLAN ▪ TIPPECANOE HIGH SCHOOL ▪ *Automotive Eye Sensing Technology***

**MITCHELL HALLEY ▪ COMMERCIALIZATION PLAN ▪ CANFIELD HIGH SCHOOL ▪ *Removing Hydrogen Sulfide from Well Water***

**SALVATORE HARGIS ▪ COMMERCIALIZATION PLAN ▪ STRONGSVILLE HIGH SCHOOL ▪ *Spray on Skin Replacement***

**ANDREW HELLER ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *STEMI Device Application***

**CHRISTIANNA HOUSE ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Using Olfactory Cues to Attract *Osmia lignaria* for Crop Pollination***

**DANIEL HOWARD ▪ COMMERCIALIZATION PLAN ▪ EATON HIGH SCHOOL ▪ *A wrestling mat attachment that will automatically clean the mat in order to prevent the spread of skin diseases that are contracted by unclean mats.***

**KIMI ITO, RAYNA MCLEAN, CAROLINE KERKA, ADELINE WICKERHAM ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *The Prevention of Concussions Through Modified Headgear***

**TURNER KAUFFMAN, DOMINIC CROWE ▪ COMMERCIALIZATION PLAN ▪ MINERVA HIGH SCHOOL ▪ *Bolt Head Measurer***

**JAMES KEATING ▪ COMMERCIALIZATION PLAN ▪ STRONGSVILLE HIGH SCHOOL ▪ *62798 Bright Water to Save the Planet***

**RACHEL LAVEY ▪ COMMERCIALIZATION PLAN ▪ BRADFORD HIGH SCHOOL ▪ *Neurofun-- Neurofeedback Game***

**ALENA MADAR, SOFIA BERNARDO, ALISON CHILCOTT, BROOKE FINCH ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Defying the Limitations of Rh Incompatibility: A Synthetic Additive that Neutralizes Rh Antigens on the Surface of Red Blood Cells***

**MEGAN MALOTT ▪ COMMERCIALIZATION PLAN ▪ TIPPECANOE HIGH SCHOOL ▪ *Locking Palate Expander***

**BRANDON MANLEY, KARLEN ROLSEN ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Water Synthesis from Air Compactification***

**ANNIKA MARGEVICH ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Using GMOs to Aid the Food Crisis in the Congo***

**HALLIE MOEHRING ▪ COMMERCIALIZATION PLAN ▪ GAHANNA LINCOLN HIGH SCHOOL ▪ *Microbial Fuel Cell Power Enhancer***

**BRADEN MOLES ▪ COMMERCIALIZATION PLAN ▪ EATON HIGH SCHOOL ▪ *Pleasant Portions***

**KELLY MURPHY, MEREDITH SCIARTELLI ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Genetically Engineering the Nicotiana benthamiana to Produce Insect Pheromones and Capture the Insects***

**ELIZABETH ORDEMAN ▪ COMMERCIALIZATION PLAN ▪ OAKWOOD HIGH SCHOOL ▪ *Grass Generating System for Use on Industrial Farming Operations***

**ELLEN PETERS ▪ COMMERCIALIZATION PLAN ▪ VERSAILLES HIGH SCHOOL ▪ *Inner City Snow Removal***

**GABRIELLE QUARTARACO ▪ COMMERCIALIZATION PLAN ▪ HIGHLAND HIGH SCHOOL ▪ *The Buddy System***

**KAYLEIGH QUEISER ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *New Time-Released Fertilizer to Prevent Nutrient Pollution***

**MICHAEL REPELLA ▪ COMMERCIALIZATION PLAN ▪ MINERVA HIGH SCHOOL ▪ *The Endobox A Cheap Solution to Powerless Refrigerators***

**MONICA ROLINCE, MASON MCCLOUD ▪ COMMERCIALIZATION PLAN ▪ MC2 STEM HIGH SCHOOL ▪ *Manually Lever Propelled Wheelchair with Stair Maneuverability and Multifunctional Wheels***

**ROHAN SHETH, JONATHAN BRANDT, ZACHARY GENTON ▪ COMMERCIALIZATION PLAN ▪ LAKOTA EAST HIGH SCHOOL ▪ *FAWKES (Fire and Weather Kelvin Encountering System)***

**NOAH SILVER ▪ COMMERCIALIZATION PLAN ▪ COLUMBIANA HIGH SCHOOL ▪ *\*Sniff\* Now How Does That Make You Feel?***

**LAUREN SOTO ▪ COMMERCIALIZATION PLAN ▪ MEDINA COUNTY CAREER CENTER ▪ *Hearinx***

**JOSHUA SQUIRRELL ▪ COMMERCIALIZATION PLAN ▪ ORRVILLE HIGH SCHOOL ▪ *Tinnitus Dome***

**DARIN STAMBAUGH, MORGAN OBERLY ▪ COMMERCIALIZATION PLAN ▪ TRIWAY HIGH SCHOOL ▪ *A Topical Treatment for Head Lice (Pediculus Humanus Capitis) Comprised of a Lubricating Hair Gel Infused with a Neuroinhibitor Called Malathion***

**NICHOLAS STATZER ▪ COMMERCIALIZATION PLAN ▪ MIAMISBURG HIGH SCHOOL ▪ *Automatic Reclining Ejection Seat***

**VICTOR TENORIO, RAYONNA BOOTH, ZACHERY WRIGHT ▪ COMMERCIALIZATION PLAN ▪ YOUNGSTOWN CHANEY CAMPUS ▪ *Customizable 3D Printed Prosthetic Leg***

**SARAH YU ▪ COMMERCIALIZATION PLAN ▪ GAHANNA LINCOLN HIGH SCHOOL ▪ *The Usage of Brain Imaging Technology to Detect Deception in the Human Brain***

**CHRISTINA ZELEZNIK, GRETCHEN WEAVER ▪ COMMERCIALIZATION PLAN ▪ HUDSON HIGH SCHOOL ▪ *Secret Life of Bees***

**ZACHARIAH AIDJA, JENNIFER O'DONNELL ▪ BUSINESS PLAN ▪ WEST GEAUGA HIGH SCHOOL ▪ *Safe Start***

**RACHEL COSSICK ▪ BUSINESS PLAN ▪ WADSWORTH HIGH SCHOOL ▪ *Sovereign: A computer-based system to implement vehicle-to-vehicle communication to improve overall self-driving vehicle safety and efficiency***

**NOAH DELARCA ▪ BUSINESS PLAN ▪ WADSWORTH HIGH SCHOOL ▪ *Mobile Application Designed to Provide Uber Riders with Easily Accessible Customer Reviews of Specific Uber Drivers***

**ANTHONY ENOS ▪ BUSINESS PLAN ▪ HUDSON HIGH SCHOOL ▪ *Automobile-Based Audio Service Designed to Combat Distracted Drivers by Providing a New System to Vehicle Head Units***

**NICHOLAS GORMAN, NICOLAUS WHITE ▪ BUSINESS PLAN ▪ VAN WERT HIGH SCHOOL ▪ *A Safe Sidewalk to School***

**MADISON HOFFMAN ▪ BUSINESS PLAN ▪ MILTON-UNION HIGH SCHOOL ▪ *FitBud Earbuds***

**JAMISON LUTTON ▪ BUSINESS PLAN ▪ HOOVER HIGH SCHOOL ▪ *Quick Mow: A self-propelled, technologically advanced laser cutting lawn mower that increases efficiency and reduces mowing time.***

**ALEXANDER RAMER ▪ BUSINESS PLAN ▪ BRECKSVILLE-BROADVIEW HEIGHTS HIGH SCHOOL ▪ *MobilMed***

**BRENDAN SNYDER ▪ BUSINESS PLAN ▪ HOOVER HIGH SCHOOL ▪ *iCite Pro: Citation Generator and Research Cite Generating App or Website.***

**ASHWIN VEERAMANI ▪ BUSINESS PLAN ▪ UNIVERSITY SCHOOL ▪ *Cleveysyche***

**DANA WEIDINGER ▪ BUSINESS PLAN ▪ REVERE HIGH SCHOOL ▪ *SolarPro LLC***