

## **What to do while you're waiting:**

1. Add your name, grade and email to the document pulled up on the computers.
2. Write down any and as many STEMM-related careers that you can think of or that you are interested in on the whiteboard.
3. Start thinking about your answer to the following question:  
How do you think school prepares you for your future career goal? What do you think you don't get from school (maybe that you wish you had) that can help you reach your career goals?

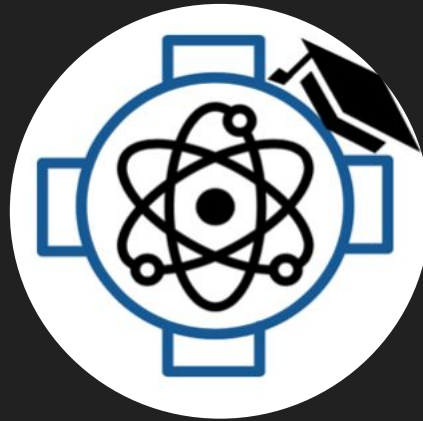
# Introductions

# Why are we here?

- Eventually we are going to graduate (hopefully) and do something after that
- Bob vs Billy
- College applications & job resumés

# S.I.S.E.R.

Students In Science & Engineering Roundtable



# What is S.I.S.E.R.?

- Prepares you for STEMM-related careers through various opportunities
  - **Classwork**: getting tutoring for STEM-related classes
  - **Skill set**: learning extracurricular STEM skills like programming, architectural drawing, data analysis, research
  - **Community Service**: tutoring younger students, community solutions
  - **Leadership**: conducting research, projects
- **Student-led** (all projects will be chosen through majority voting by you and will be led by you; we will guide you through projects and provide resources/help)

# Why a “Roundtable”?

Mandatory meetings = roundtable

1. Vote on which projects we are interested in/speakers or decisions that need to be made
2.
  - a. Discuss a (math or science critical thinking) **problem** or current **issue** in STEMM fields (eg. income variation, stem cell research, gender gaps, career goals) (everyone must speak once)
  - b. Have a **STEMM professional** speak about their job or STEM skill

# Research

Must do one research project per semester or prepare for Believe in Ohio (you will have time during meetings to complete these).

- Your own research project
- **Experiments/Field project**: (Individual or group) Write a two paragraph proposal mentioning goals of the experiment/field project, what you will need, and when you will do the experiment/project
  - Your findings will be published on our website
- **Research careers or current STEM issue**
  - Must be at least 3-5 paragraphs long
  - Must interview one related professional in person or over the phone and use in paper

# Believe in Ohio

- Ms. Pennington's Experience
- Extensive research project
- Scholarship money
- [www.believeinohio.org](http://www.believeinohio.org)



# What projects are you interested in?

- Creating science fairs, STEM nights, STEM quiz bowls at elementary/middle school levels
- Recycling -> using materials to invent a small scale solution
- Measuring vegetable/fruit plant growth (in courtyard) to use in cafeteria
- Advertising to help local businesses with problem-solving (building, etc.)
- Any parents/individuals who are good at HTML programming/coding who can help teach how to code our own website?

(cont.d on next slide)

# What projects are you interested in?

- Environmental research at the Beavercreek Wetlands
- Volunteering at retirement homes ->/speaking with nurses to research Alzheimer's, volunteering at hospitals
- Trips to robotic companies like Yaskawa Robotics
- Ask your parents/relatives/family friends who have STEM-related careers (professors, engineers, doctors, staticians, researchers) if they are willing to come in and be a speaker or if they have any project ideas?
- Operation Smile/Leukemia & Lymphoma Society, Red Cross research and volunteering

# Leadership Positions Available

*Useful for college applications & NHS Leadership Requirement*

**Vice President:** head voting procedures, assist President with decision-making, help problem-solve issues

**Secretary:** head communications to partners in projects/events, keep record of meeting details, finalize meeting dates/times/locations in partnership with President & VP

**Treasurer:** handle monetary statistics & resource necessities for events and projects

**Tech Director:** head website development and management, manage social media accounts

# What are the expectations?

- Submit online application on [mhssiser.weebly.com](http://mhssiser.weebly.com) (Join page) by **Wed. Oct. 23, 2019**
- Attend roundtable/mandatory meetings once a month
  - Dates/times/locations/will be on Belvo & on [mhssiser.weebly.com](http://mhssiser.weebly.com)
    - Participate in discussions & activities
    - Be inclusive, empathetic, and respectful towards others and their views
- Complete one research/field project per semester
- Try to talk to someone you know for either a project idea or being a speaker