Roger That! Design Challenge

To commemorate the life of Roger B. Chaffee and the brave astronauts of Apollo 1, Grand Valley State University and Grand Rapids Public Museum are co-hosting the second annual *Roger That!* conference on the weekend of February 16-17, 2018.

We invite interested 5th – 8th grade students in the greater Grand Rapids area to participate in the *Roger That!* Design Challenge. Separate awards will be presented for 5th – 6th grades and 7th - 8th grades.

Problems to solve:

- ❖ Humans in Space
- ❖ Communities in Space
- ❖ Robots in space

Examples of things you can do:

- ✓ Explain concepts related to space or space exploration
- ✓ Discuss solutions to barriers to space exploration
- ✓ Write a story or perform a play about space travel or life in space
- ✓ Design clothing, buildings, or devices for space travel or life in space
- ✓ Build physical devices (robots or models) to be used in space exploration
- ✓ Create a webpage or computer model relevant to space or space exploration

How to participate:

1. Select a topic.
2. Form a team (recommended size 2-6 students), and research your topic.
3. Email your project reflection and your project documentation (explained below) to rogerthat@gvsu.edu by Friday, February 9.
4. Projects will be on display Friday, February 16 at GVSU and Saturday, February 17 at GRPM as part of the *Roger That!* conference programming.

Project Reflection (up to 5 pages including figures and bibliography):

1. Your reason(s) for choosing the problem
2. Your research into the problem
3. Your solution to the problem
4. Something(s) you learned that surprised you
5. The most challenging part of your project

Awards will be based on:

- Project documentation (copy or picture of your poster, your story, video of your play, pictures of any physical models or robots, etc.)
- Project reflection (content, scientific accuracy, grammar, appropriate referencing)
- Innovation (creativity and originality)

Prizes include:

- Certificates for each team member
- Pizza party for your class
- Droid Inventor Kit for your classroom

The *Roger That!* conference is funded in part by the Michigan Space Grant Consortium.