# Makerspace Culture Workshop Georgia



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# — Introduction & Motivation -

Makerspaces are becoming a central component of the undergraduate education of universities worldwide. These spaces, although physical in nature, are usually led by a group of students and as such also develop a unique culture. Developing an inclusive, diverse, and welcoming culture is often difficult and the objective of this project is to facilitate this process.

To aid in the development of an inclusive makerspace culture we have developed a workshop specifically geared towards undergraduate-run makerspaces that exposes them to best practices in developing a diverse and inclusive environment.

# Workshop

The workshop was divided into **three** main activities where students broke into smaller groups and discussed. The results of the discussions were then recorded for the entire group. These activities focused on:

The culture workshop was trialed at the Aero Maker Space in the School of Aerospace Engineering during the Spring 2019 Semester.



- Defining a Positive Environment
- Developing our Core Values 2.
- Identifying Threats to our Core Values 3.

The slides below show the first two exercises with the student discussion results highlighted in red:

# AMS Culture

- Exercise #1: Environment
- 3 minutes. What are qualities or characteristics that you associate with a positive environment?
- 5 minutes. Discuss in groups of 3.
- Group discussion.

### **Discussion results:**

- Ability to learn from each other, mentorship
- Empowered to learn and grow
- Being comfortable/friendly
- Ambiance
- Body language, conversations
- Diversity in interests
- Attitude on shift

# AMS Core Values

Exercise #2: Core Values

## culture noun cul·ture | \'kəl-chər 🕥 \

#### **Definition of** *culture* (Entry 1 of 2) : the customary beliefs, social forms, and material

traits of a racial, religious, or social group also: the characteristic features of everyday existence (such as diversions or a way of life) shared by people in a place or time

#### *II* popular *culture* // Southern culture

- : the set of shared attitudes, values, goals, and practices that characterizes an institution or
- *II* a corporate *culture* focused on the bottom line
- Mixed use facility, more than just tools/machines
- Feeling safe to share opinions and be respected
- Supportive/empowered
- Learning over perfection
- Forgiveness/empathy

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Summary. Our shared vision for the AMS

- Positive Traits:
  - No Judgement
    - Get to do dumb things, safely

- 5 minutes. Groups of 3.
- Write down three core values of the AMS.
- Underneath each write three **behaviors that align** with each value
- Group discussion.

## **Discussion results:**

- Customer Service
  - Positive, optimistic, sense of community, caring, kindness
- Approachability
  - Teaching, empowering, mentorship, passion to teach
  - Welcoming, community
  - Education, fostering
- innovation
- Positive feedback
- Setting tone for visitors in the space
- "Failure is an option, but" failure to learn is not" ©
- Diversity of knowledge and people
  - Georgia

- Learning over perfection
- Diversity of thought, experience, majors, etc.
- Support and community
- Inclusion
- Core Values:
  - Care
  - Equal Access for All
  - Fostering Mistakes and Innovation
  - Mentorship and Empowerment
- Action Items:
  - Karting
  - Welcoming signage, AMS instructions
  - Extending space
  - Casual/Lounge area
  - Blind hiring?

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# Survey & Student Comments

The following questions were rated from 1 – Not Important to

- 5 Very Important. Not all questions are shown.
- How important is it for maker spaces across campus to 1) foster a positive culture?

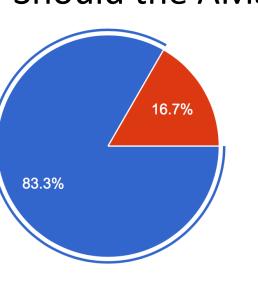
# **Average Answer: 5**

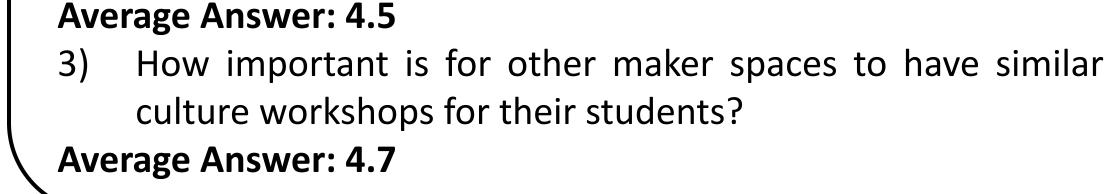
A portion of the workshop was devoted to discussing issues 2) of inclusion, bias, and diversity and how they could affect the AMS. How useful did you find this portion of the workshop?

- Should the AMS continue to hold a culture workshop? 4)
  - Yes Every Year
  - Yes Every Other Year
  - No Did not find it relevant. (Please comment below if you can)
  - No Found it relevant but would prefer a different format. (Please comment below if you can)

# Selected comments to: What was your main takeaway form the workshop?

- "Understanding my own biases and how to learn from them"
- "I main takeaway was the importance of defining and reflecting on the values





## of AMS. I think it made me think a lot about how my actions can affect and

## promote the values of the space..."

#### "That we even though we are on the right footing to having more diverse $\bullet$

hiring processes, we still have a long way to go."