



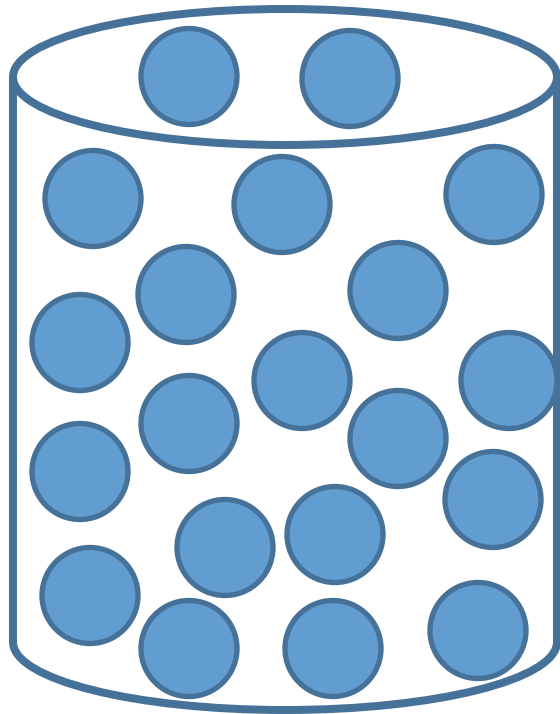
BROADER IMPACT

Charmane V. Caldwell Ph.D.

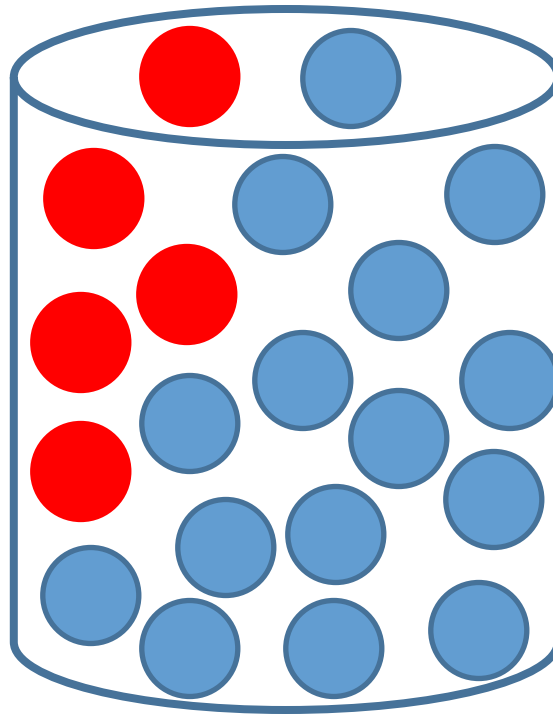
Director, Diversity and Inclusion

May 17, 2016

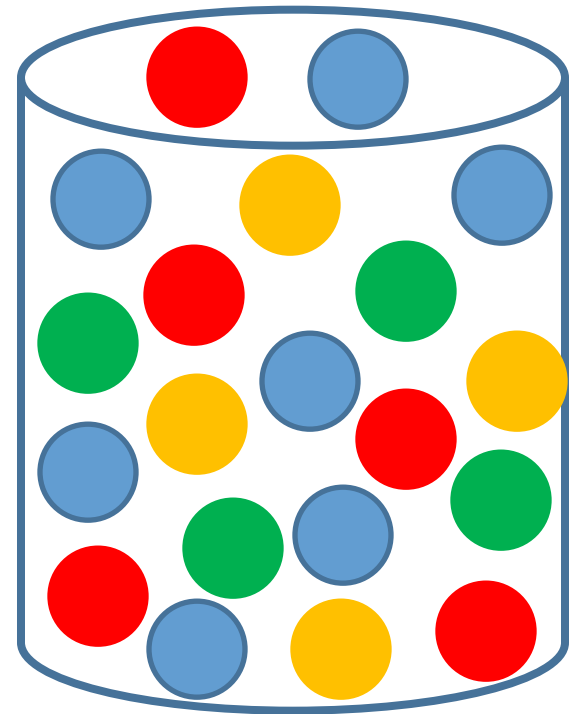
DIVERSITY AND INCLUSION



No Diversity



No Inclusion



Diversity and Inclusion

OUTLINE

- Broader Impact Requirements
- Broader Impact Tips
- Campus Resources or Partners



BROADER IMPACT

- *The potential of the proposed project to benefit society and contribute to the achievement of specific, desired societal outcomes.*

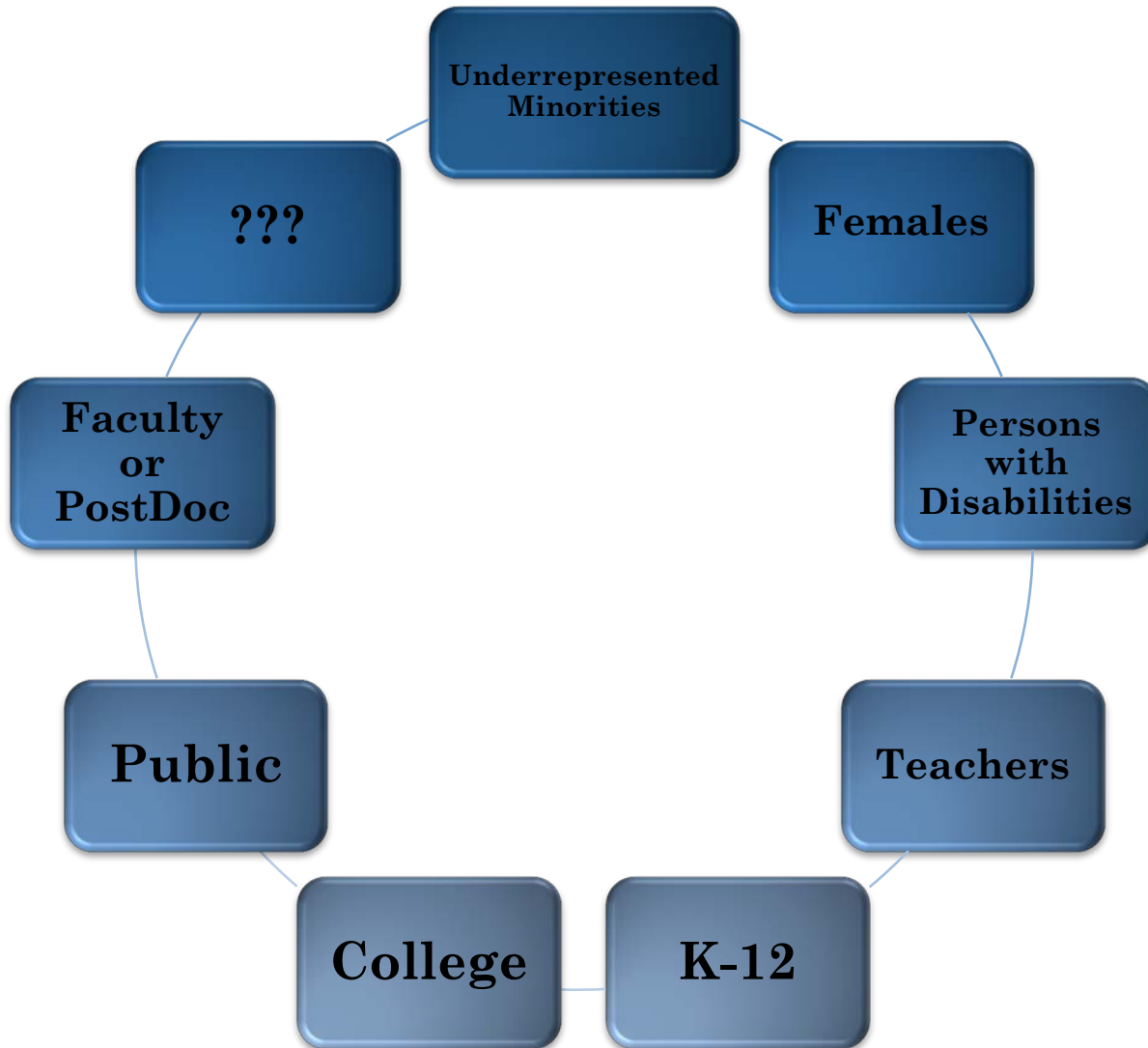


BROADER IMPACT CRITERION

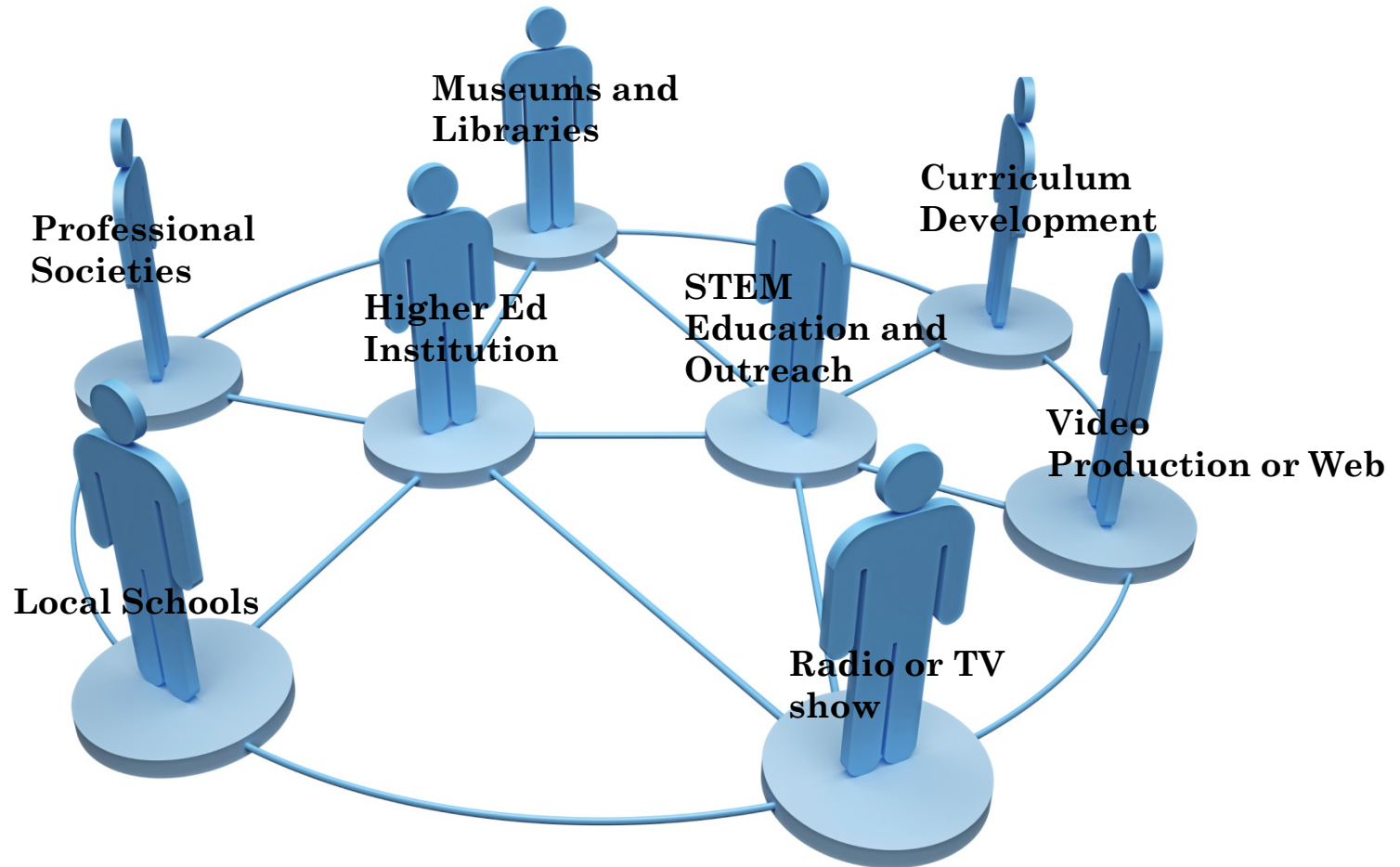
- How well does the activity advance discovery and understanding while promoting teaching, training and learning?
- How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)?
- To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks and partnerships?
- Will the results be disseminated broadly to enhance scientific and technological understanding?
- What may be the benefits of the proposed activity to society?



TARGET AUDIENCE



COLLABORATIVE PARTNERSHIPS



STATEMENT OF UNIQUENESS

Previous Broader Impact
That Works

Special
Target
Audience

Be Creative

Unique
Combination

Apply in a
New Way



EVALUATION PLAN



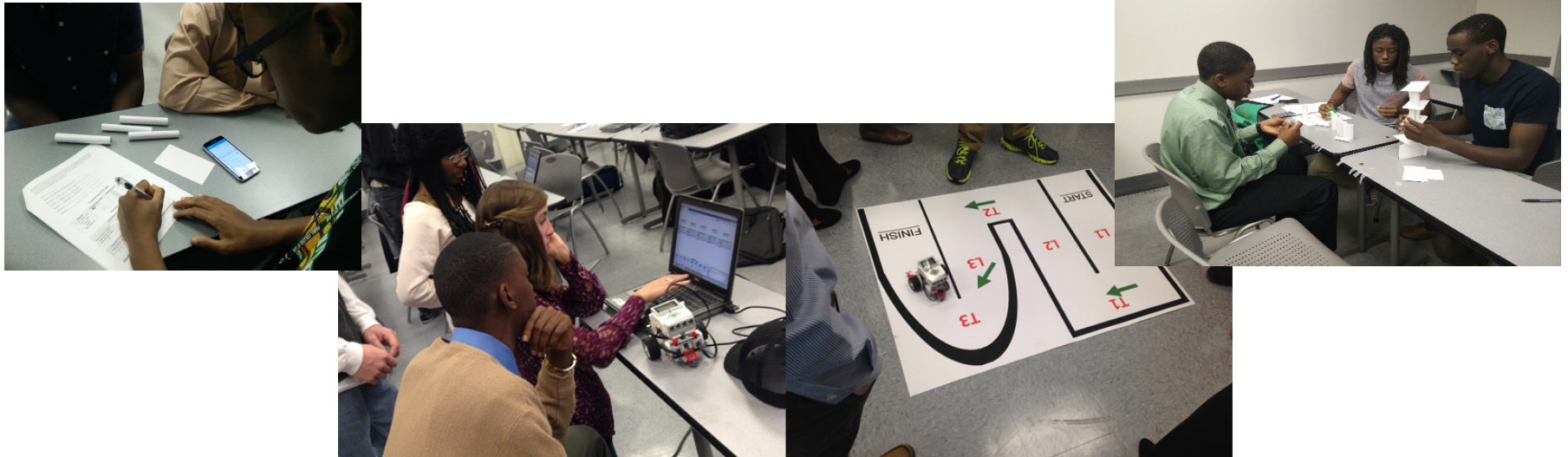
Evaluation

- OUTSTANDING
- Excellent
- Very Good
- Average
- Below Average



CAMPUS RESOURCES

FIRST YEAR ENGINEERING LAB



- Project-Based Learning
- Active Learning Techniques

Contact:

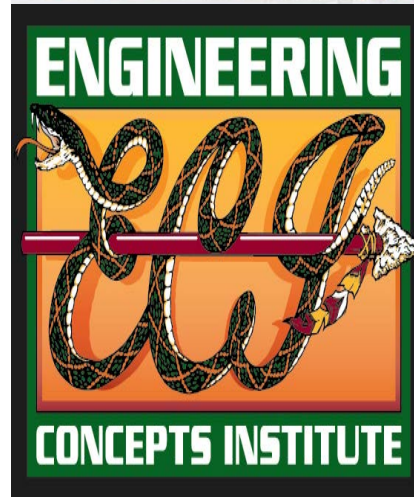
Dr. Charmane Caldwell

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850-410-6173



ENGINEERING CONCEPTS INSTITUTE



A six (6) week summer program for FAMU and FSU students that aides in the successful completion of the pre-engineering program.

Contact:

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FAMU STEM LIVING LEARNING COMMUNITY



A program that seeks to facilitate engagement with fellow students and faculty in order to foster a sense of community.



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ENGINEERING LEARNING COMMUNITY



Designed to assist all FAMU engineering students to successfully matriculate and enter the engineering profession.

Contact:

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FSU STUDENT SUPPORT SYSTEM-STEM



One of the eight federally funded TRIO programs designed to improve retention, graduation, financial literacy, and overall academic success rates for students majoring in STEM fields.

FSU SSS-STEM provides academic and engagement activities for qualified students throughout their enrollment at FSU.



Contact:

Dr. Asha Brewer
afieldsbrewer@fsu.edu
850-644-9699



FAMU PROGRAM OF EXCELLENCE IN STEM

PE-STEM is a rigorous pre-college bridge program that focuses on research and critical thinking in the sciences.



High school juniors and seniors from area schools to attend a five-week, intensive summer workshop. The summer program will be comprised of courses in the STEM areas, research lab tours and presentations.

Contact:

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April.black@famu.edu
850-412-7734



CPALMS PERSPECTIVES VIDEOS



Dr. Oates uses engineering practices to design artificial muscles that react to electrostatic

Export To... ▾



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Aligned Standards

The CPALMS Perspectives initiative provides K-12 standards-aligned short (~5-min.) video resources highlighting experiences and thoughts regarding math and science from experts, teachers, professionals, and skilled enthusiasts.

Electromagnetic Robot Muscles

Dr. Oates uses engineering practices to design artificial muscles that react to electrostatic fields.

Primary Resource Type:

Perspectives Video: Expert

Subject(s): Science

Grade Level(s): 9, 10, 11, 12

Intended Audience: Educators, Students

Collection: CPALMS Perspectives Videos - General

More Information



Contact:

stemvideos.org

FCR-STEM

fcr-stem@lsi.fsu.edu



NHMFL- CENTER FOR INTEGRATING RESEARCH AND LEARNING

All programs are designed to excite and educate students, teachers and the general public about science, technology and the world around them.



- MagLab Summer Camp
- SciGirls Summer Camp
- Middle School Mentorships
- Summer Internships
- Academic Year Internships
- Research Experiences for Teachers
- Teacher Workshops

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OTHER BROADER IMPACT IDEAS

- Research Box-Kit
- Meek-Eaton Black Archives
- Bring your son or daughter to work day
- E-Series Courses
- Research Experience for Undergraduates (REU)
- Engineering Projects in Community Service (EPICS)
- Engineer Scholars



BROADER IMPACT WORKSHEET



FLORIDA A&M UNIVERSITY - FLORIDA STATE UNIVERSITY
COLLEGE OF ENGINEERING

Broader Impact Worksheet

Target Audience

Why do you want to work with this audience?

Type of Interaction

- Small Group and Deep Interaction
- Large Group and Short Interaction

Collaborative Partner

Describe the activity and how your research will be integrated.



REFERENCES

- <https://www.brown.edu/research/what-are-broader-impacts>
- <http://www.nsf.gov/pubs/2007/nsf07046/nsf07046.jsp>
- <http://vcresearch.berkeley.edu/brdo/addressing-broader-impacts>
- <http://coseenow.net/wizard/>



? QUESTIONS ?

