

# PROMOTING GENI AT 4-YEAR COLLEGES

*P. Tiako, R. Osei, M. Michelle*

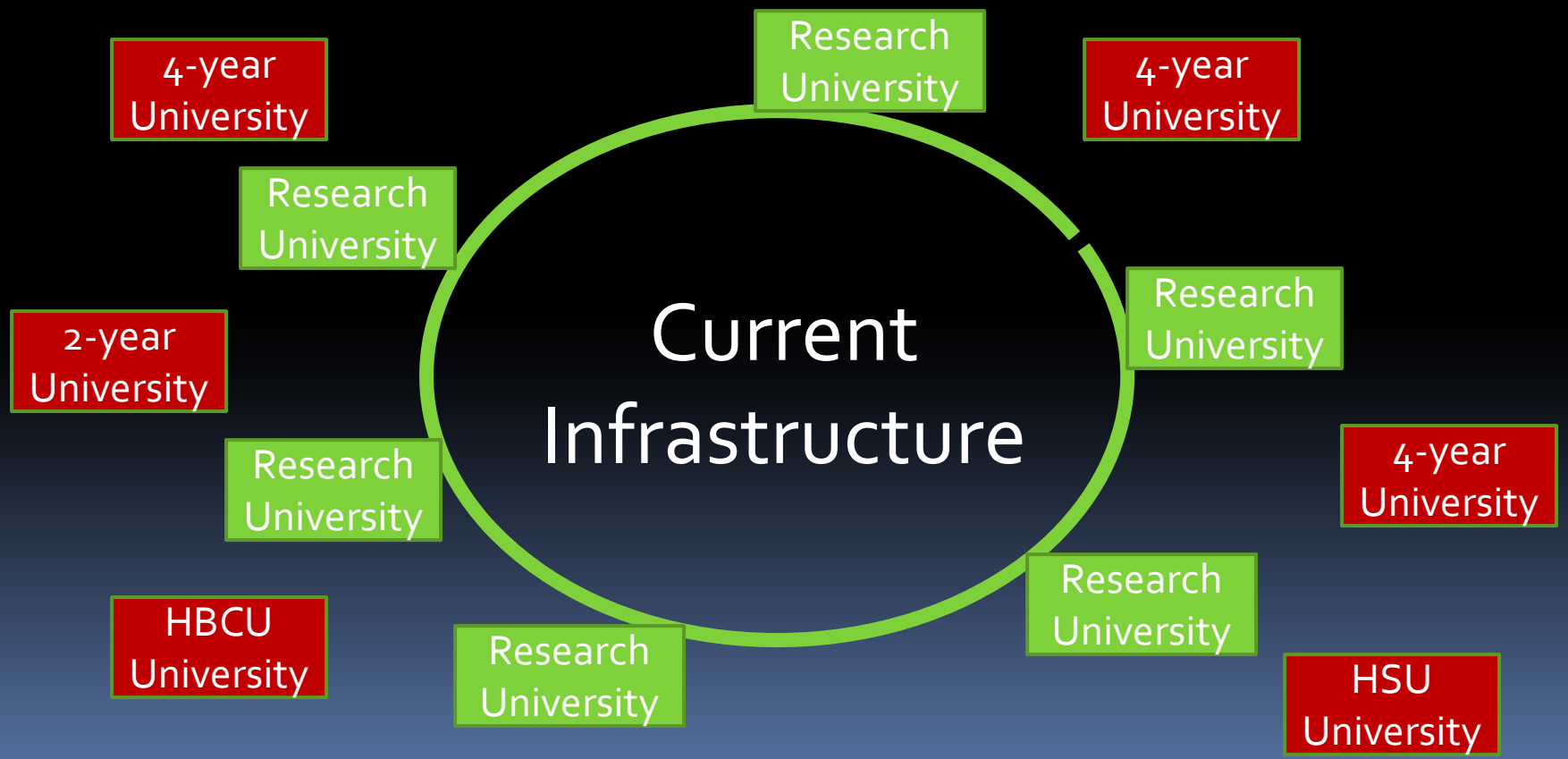
Center for IT Research  
Langston University in Oklahoma  
[WWW.LUNET.EDU/RESEARCH/CITR](http://WWW.LUNET.EDU/RESEARCH/CITR)

## Global Environment for Network Innovation

- The Global Environment for Network Innovation (GENI) is a US national-scale facility for conducting network and computing research.
- GENI will be uniquely capable of permitting evaluation of radical new network architectures including non-IP or even non-packet-based architectures.

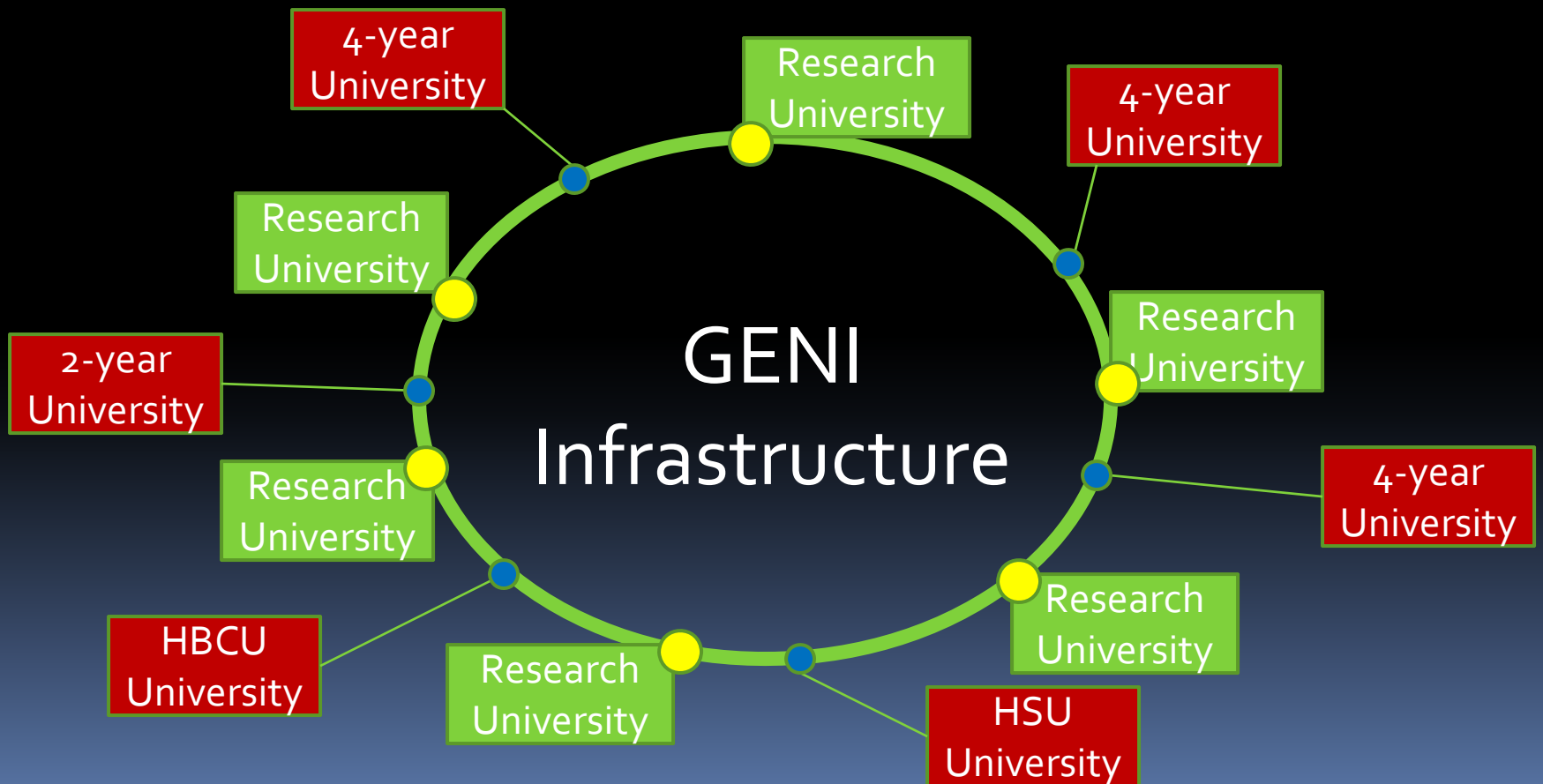
# Current Infrastructure Problem

- Current network infrastructures are not designed to accommodate researchers at 2-year and 4-year colleges.



# GENI Infrastructure

- GENI should provide such institutions with minimum tools and services to ALSO create, measure, and operate SOME experiments .



# Langston's part in GENI

## Year – 1

- Provide as survey of research and education experiments of interest to 4 year colleges, and the substrate resources required to enable them
- Focus on spiral-1 substrate technologies and identify which experiment from the survey could be supported on spiral-1

# Langston's part in GENI

## Year – 1

- Develop use-case scenarios of experiment identified for spiral-1, this will include the specifics of one of the GENI prototype control frameworks and is limited to the substrate resources in that cluster.

# Langston's part in GENI

## Year – 2

- Conduct at least one of the experiments discussed in year – 1 on the spiral-1 GENI prototype facility
- Provide white paper describing the experiment, with an emphasis to how GENI was used more than the experimental results.

# Langston Deliverables/Tasks

- Literature review
- E-mail interactions with GENI working groups and the GPO
- Report on survey of education and research of interest to four-year colleges
- Report on experiments identified from the survey which could be supported on spiral-1
- Draft of at least one use-case scenario for the experiment identified
- Quarterly travel to attendance at GENI Engineering Conferences
- Requirements elicitation explored for conducting experiment
- Experimentations
- Reports



# Langston Site -

[www.lunet.edu/lugreeks/geni](http://www.lunet.edu/lugreeks/geni)

Welcome LU GENI - Windows Internet Explorer

http://www.lunet.edu/lugreeks/geni/

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Database Database

Home Forms Faculty and Staff Reports

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## Welcome to Global Environment for Network Innovation

The Global Environment for Network Innovation (GENI) is a US national-scale facility for conducting network and computer science research. GENI will be uniquely capable of permitting evaluation of radical new network architectures including non-IP or even non-packet-based architectures. At that scale GENI will be providing services to create, measure, and operate experiments. Furthermore it will protect experiments on the same infrastructure from each other and the Internet as a whole.

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## Our Part in GENI

Working with the GPO during the first year, Langston University (LU) team involved in this project will assess the substrate resources offered in spiral-1 and help to define potential experiment scenarios which could serve as topics of interest to four year colleges and minority institutions.

Instead of only relying on the review of GENI documentation to understand how GENI might be used at four year colleges, we will also use the capabilities offered in the spiral-1 prototype facility to shape and propose use-case scenarios.

Done Internet 100%

# The Survey

http://www.lunet.edu/lugreeks/geni/form/form.html - ...

http://www.lunet.edu Google

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Google G Go Settings

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**Langston - GENI SURVEY**

**School Name**

**State**



**Kind of Institution**

HBCU

Native American

Hispanic American

Regular 4 year

**Research Areas**

Computer Science

Computer Network

Information Systems

IT Research

Bioinformatics

Other Sciences

**List all the Research areas**

Send Survey

Done Internet 100%

# Faculty and Staff

Faculty & Staff - Windows Internet Explorer

http://www.lunet.edu/lugreeks/geni/faculty.php

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**Faculty**

Dr. P Tialko

**Research Assistant**

Richard Osei

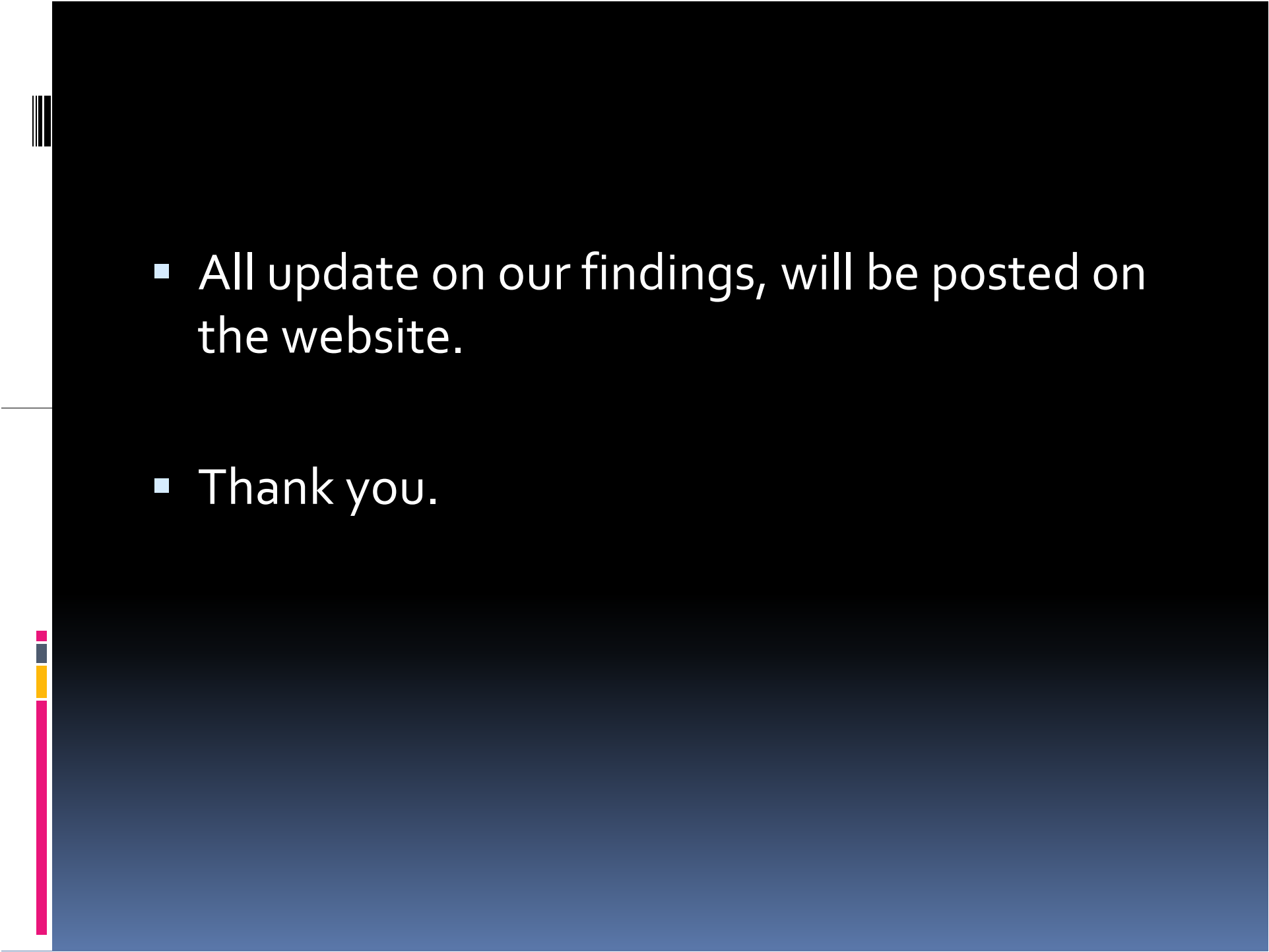
Michelle

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Internet 100%

# Reports

The screenshot shows a Windows Internet Explorer browser window. The title bar reads "GENI REPROTS - Windows Internet Explorer". The address bar contains the URL "http://www.lunet.edu/lugreeks/geni/report.php". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The toolbar features a search box with "Google" text, a "Go" button, and icons for "Bookmarks", "PageRank", "1 blocked", "Check", and "Settings". The main content area displays a banner with a globe on the left and a photograph of a campus building on the right. Below the banner is a navigation menu with links for "Home", "Forms", "Faculty and Staff", and "Reports". A large white box with the heading "Report" is centered on the page. At the bottom, a footer contains the text "Contact us | Copyright © 2008". The browser's status bar at the bottom right shows "Internet" and "100%".

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- All update on our findings, will be posted on the website.
  - Thank you.