DAKOTA STATE UNIVERSITY

CAE in Cybersecurity Symposium

November 8, 2018

Dr. Wayne E Pauli

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…All in the Middle of a Cornfield…

CAE Designations in:

- CDE

- R

- CO

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It is about the Students

- **1100 UG and 300 GR students studying Cyber related curriculum**
  - BS Cyber Operations
  - BS Computer Science
  - BS Network Security
  - MS in Cyber Defense
  - MS in Computer Science
  - PhD in Cyber Operations
  - PhD in Cyber Defense**
  - PhD in Computer Science**
  - ** fall of 2019

It is about the Faculty

- Dr Richard Hanson – Dean

- 3 Full Professors

- 5 Associate Professors

- 11 Assistant Professors

- 9 Instructors

- 2 Advisors

- 12 Adjuncts

Beacom College of Computer & Cyber Sciences our Home, The Beacom Institute of Technology Opened August - 2017
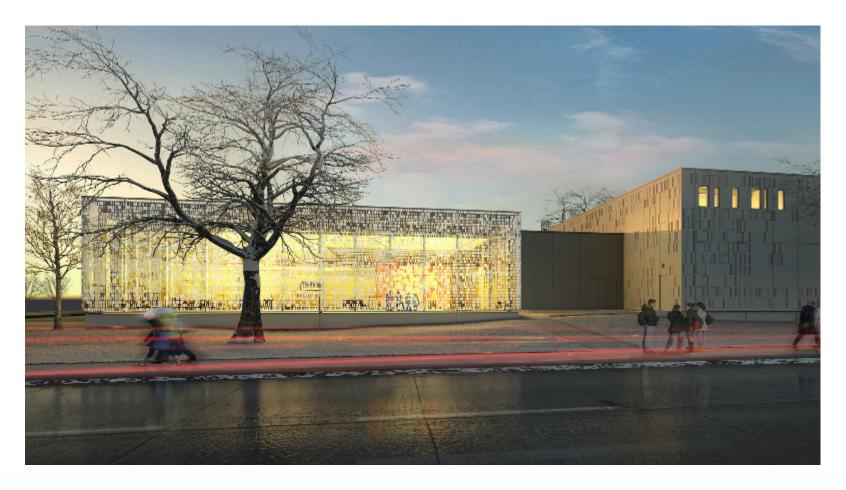
7 faculty openings!!

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It is about the Campus

It is about the Cyber

It is about the CRRC

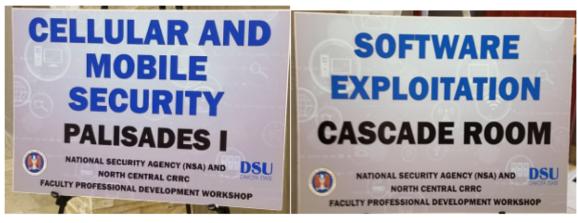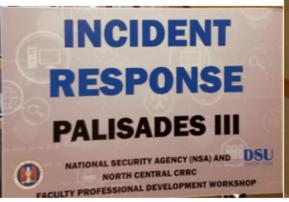- Since the fall of 2017 was are also a CRRC – 1 of 10

Primary Roles

- Work within the 7 States assigned to the North Central Region

- Attend all CAE and CRRC meetings, contribute where possible

- Provide Professional Development workshop opportunities to faculty of CAE designated colleges and universities

- And…we did

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Summer 2018 – Sioux Falls, SD

100 Faculty
28 states &
Puerto Rico
Completed a
20-hour
training in 1
of these
topics.

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Results??

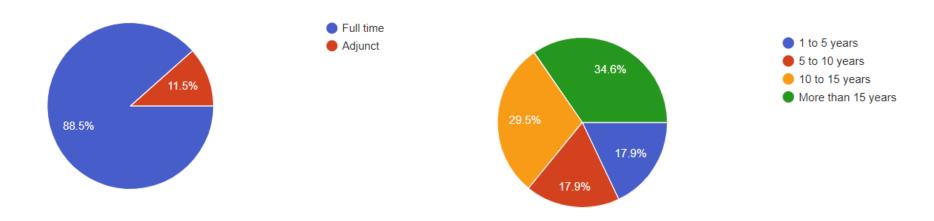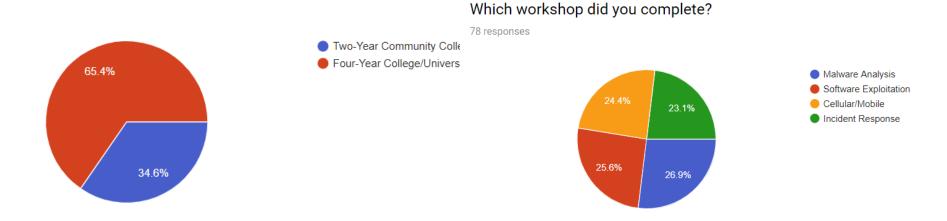# It is about the Demographics

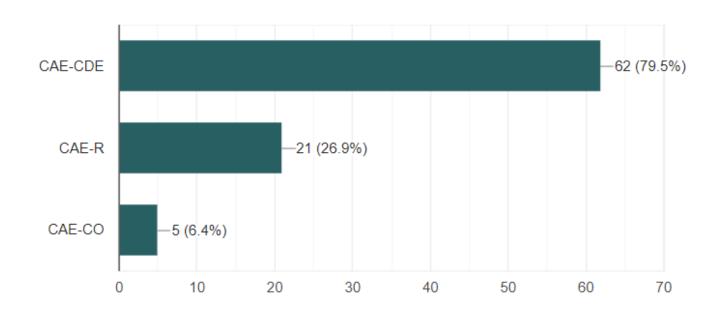# It is all about Institutional data

Two-Year Community Coll[ege]
Four-Year College/Univers[ity]

65.4%
34.6%

Which workshop did you complete?
78 responses

Malware Analysis
Software Exploitation
Cellular/Mobile
Incident Response

24.4%
23.1%
25.6%
26.9%

It is about the Designation

What NSA designation(s) does your institution hold?

78 responses

CAE-CDE — 62 (79.5%)
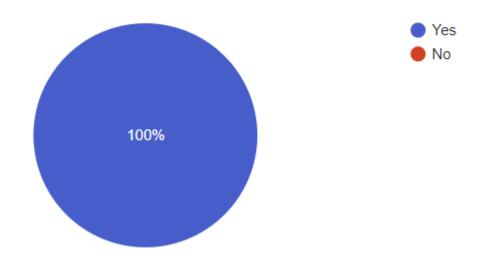CAE-R — 21 (26.9%)
CAE-CO — 5 (6.4%)

It is about the Funding

Do you believe it is a good source of funding for the National Security Agency (NSA) to fund these type of workshops?
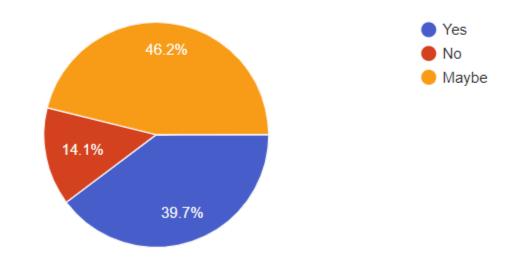
78 responses

100%

● Yes
● No

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It is about the Cost Share

If there was a cost share for this workshop would you still want to attend?

78 responses

- Yes
- No
- Maybe

46.2%
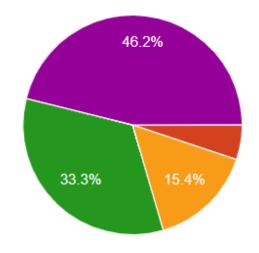
14.1%

39.7%

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It is about the Interest Level

Did this workshop raise your interest in your chosen topic?

78 responses

- 1 - Interest on chosen topic has not been raised.
- 2
- 3
- 4
- 5 - I now feel very interested in my chosen topic.

It is about the Curriculum

- http://share.ialab.dsu.edu/CRRC/
- All the work done during the time spent in Sioux Falls is available.
- Even if you were not able to attend, or wanted to attend more than 1 workshop

It is about the Next Workshops

- Not 1, but 2 workshop offerings in 2019

- Late spring (April/May)   Regionalize them make travel more cost effective

- Late summer (August)

- We are surveying for topics as we speak

- Go to https://www.caecommunity.org/

- Fill out the survey, and we will hunt for the best trainers for the topics you most want to have offered.

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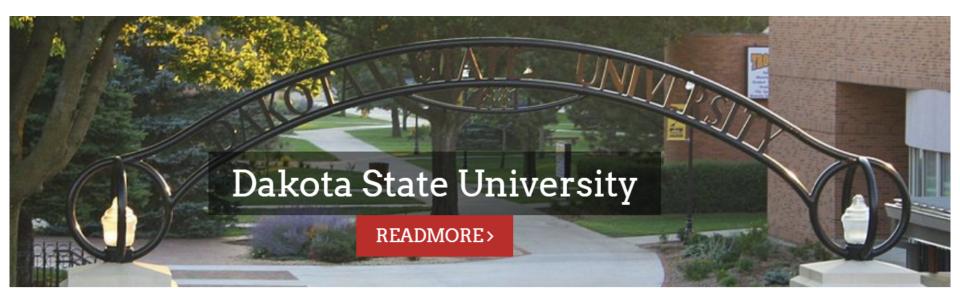DAKOTA STATE

It is about the Shared Vision

- 2 workshops will work if we have a cost share.
- What do you think?
    - If the NSA grant paid for the trainers,
    - the lodging, and
    - all the meals except evenings

    - Would you have the funding for transportation?
    - That is what we are going to be asking you to do.

Because…

It is about Learning Opportunities

cybertraining.pro: a gateway for cyber workforce development

The North Central Region (NCR) Cyber Training Center (CTC) for cybersecurity at Dakota State University is created and funded by the National Science Foundation (NSF OAC 1730105). The goal of CTC is to create a scalable online cyber training program to assist with the development of scientific cyberinfrastructure professionals in cybersecurity. The CTC includes three programs, i.e., CyberTraining Students, CyberTraining Faculty, and CyberTraining Professionals. This website, cybertraining.pro, is specifically created for the CTC to fulfill its mission. It will serve as a gateway for cyber workforce development.

- Opportunities to Learn, to Share, and to be Cyber

It is about Who Wins