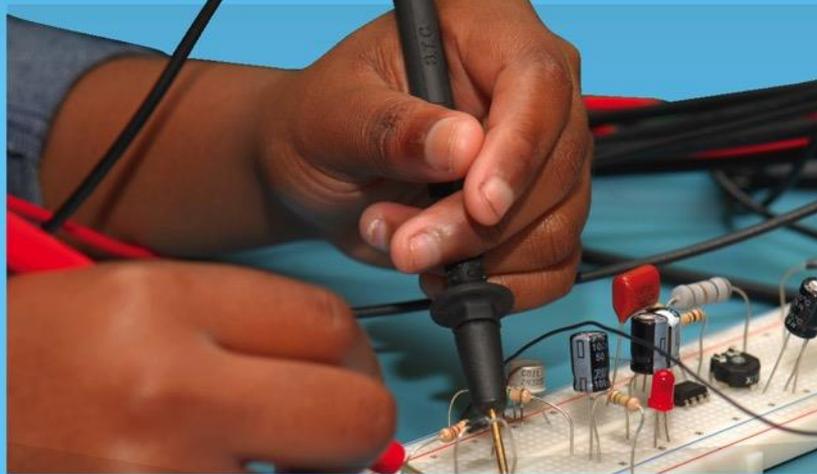


# Cyber Safety Calendar Contest



Cyber Safety for all  
South African Citizens



 Nelson Mandela  
Metropolitan  
University  
*for tomorrow*

# Cyber Safety Calendar Contest

Prof Johan van Niekerk

School of ICT

Faculty of Engineering, the Built Environment, and Information  
Technology

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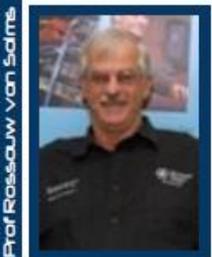
# Who are we?



CENTRE FOR RESEARCH  
IN INFORMATION  
AND CYBER SECURITY

# CRICS

## NMMU Cyber-Security Team



Prof. Rossouw van Solms



Prof. Johan van Niekerk



Prof. Kerry-Lynn Thomson



Dr. Lynn Fletcher



Dr. Mariëtte Lember



Prof. Johan Van Niekerk  
visiting a school



**Nelson Mandela  
Metropolitan  
University**

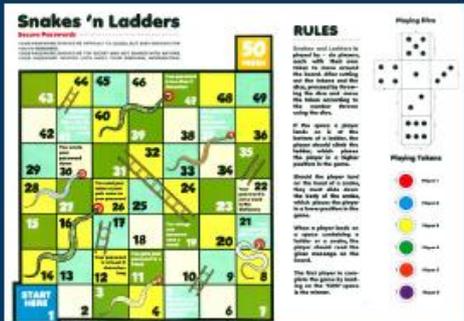
for tomorrow



Learners participating in  
cyber-security talk



Poster Competition



Security-Awareness Board Game



SACSAA Website



AV

# Why cyber safety?



We have a culture of personal safety

Parents teach their children how to lock doors,  
look left & right before crossing the street, etc.

Most parents do not know how to stay safe  
online themselves

South Africa has the 3<sup>rd</sup> highest percentage of  
cyber crime victims in the world.



# Curriculum



PE EXPRESS | WEDNESDAY 22 OCTOBER 2014

## Cyber safety curriculum for primary schools

A CYBER safety curriculum for primary schools to empower teachers in Nelson Mandela Bay to teach learners to be cyber safe was launched at NMMU last week.

The Group for Research in Information and Cyber Security (GRICS) at NMMU has developed a curriculum to teach cyber safety to learners in primary schools.

The goal of this curriculum is to empower teachers to offer cyber safety lessons and to educate learners in the 10 to about 14 age group the basic principles of cyber safety relevant to their typical activities in cyberspace.

"The proposed curriculum makes it easy for teachers to present, discuss and assess various aspects of cyber safety with their learners in class or in an IT laboratory," says NMMU's Prof [Name].

However, "Along with all these advantages in cyberspace, comes a whole series of cyber related risks. Sharing too much private information, cyber bullying, exposure to paedophiles, sexting and losing money are merely a few of these modern-day cyber-related risks we need to contend with and educate our children about," adds von Solms.

During the launch a free curriculum with 24 lesson plans for teachers, associated discussion questions, assessment worksheets and memoranda was made available.

During this workshop the annual Cyber Safety Poster Competition was also launched. The objective of the Poster Competition is for primary school learners to design posters that depict cyber safety messages.



# Our Mascots





## CyberGuardian Sid

▼ Friends | Suggest friends

▼ Following | Message | ...

[Timeline](#) | [About](#) | [Friends](#) 8 Mutual | [Photos](#) | [More](#) ▼

8 mutual friends including [Rayne Reid](#) and [Bertram Haskins](#)

Also lives in [Port Elizabeth, Eastern Cape](#)

Studied at [Nelson Mandela Metropolitan University](#)

Born on [6 August 1996](#)  
18 years old

...

**FRIENDS** · 11 (8 Mutual)



[Post](#) [Photo/Video](#)

Write something...

 **CyberGuardian Sid** changed their profile picture.  
27 October 2014 · 🌐



# E-learning content



The Cyberspace Chronicles

## THE CYBERSPACE ADVENTURES

STAYING SAFE ONLINE WITH CYBER-CYD & FRIENDS



### CHAPTER 1: A DAY AT THE PARK...

A NICE DAY FOR A PICNIC WITH FRIENDS OR 'S IT?

LITTLE REDD, MARY JO WHO HAD A LITTLE DOG, AND GOLDI LOCKS WERE ENJOYING A PICNIC IN PARK ON HOT SUMMER'S DAY

REDD RIDING HOOD

MARY

GOLDILOCKS

AND THEN...

SO LONG SUCKERS

PREVIOUS

### CHAPTER 1 REVIEW

HEY GUYS MY NAME IS CYBER-CYD, WHAT HAPPENED TO REDD, MARY AND GOLDILOCKS WAS NOT NICE, WHO WAS THE MYSTERY MEAN GUY OR GIRL? WHY DID HE OR SHE DO THAT?, I THINK WE SHOULD INVESTIGATE FIRST LETS START FROM THE BEGINNING.

FIRSTLY REDD INVITES HER FRIENDS OUT FOR A PICNIC

Conversation started today

- Little-Red Riding Hood
- Mary Joh Lamb: Yesss!!!!
- Goldi Locks: Count me in

PREVIOUS

Respond to Your Friend Request

Google Wolf Mann

MARY GOT A FRIEND REQUEST

CONFIRM NOT NOW

WOULD YOU TALK TO A STRANGER?

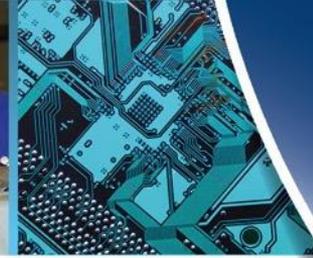
YES NO

NO, YOU SHOULD NEVER TALK TO STRANGERS, IF THEY TALK TO YOU, CALL YOUR TEACHER, MOM, DAD OR A GROWN UP YOU

GOOD, NEVER TALK TO A STRANGER

NEXT

# Who are the winners?



# Where does our engagement project fit?



## Engagement across all four categories

### Community Service

- School visits
- Curriculum for Teachers
- Radio Talks

### Discipline Based

- Security Awareness week

### Teaching and Learning

- B Tech Students create content
- NMMU SLP

### Research

- M & D students
- Many publications

# Who Benefits?



## Children



## Parents



## Teachers

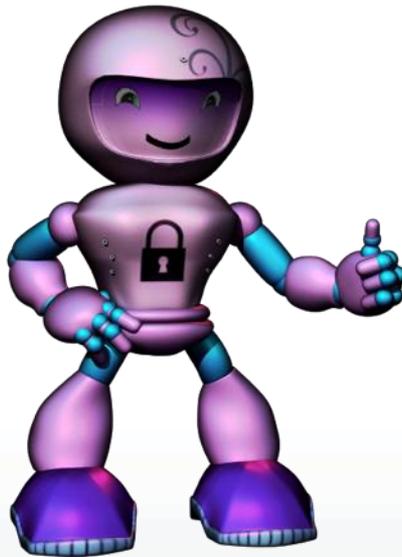


# Internal / External Partners



## Internal

- ICT Services
- Our Students



## External

- SACCSAA

# Research Outputs



## 2014

1. Reid, R. & Van Niekerk, J. (2014). Snakes and ladders for digital natives: information security education for the youth. *Information Management & Computer Security*, 22 (2).
2. Reid, R. & Van Niekerk, J. (2014). Brain-compatible, Web-based Information Security Education: A Statistical Study. *Information Management & Computer Security*, 22, (4).
3. Reid, R., Van Niekerk, J. (2014). Towards an Education Campaign for Fostering a Societal, Cyber Security Culture. 8th International Symposium on Human Aspects of Information Security & Assurance. 8-10 July 2014, Plymouth, UK.
4. Von Solms, S., Von Solms, R. (2014). Towards Cyber Safety Education in Primary Schools in Africa. 8th International Symposium on Human Aspects of Information Security & Assurance. 8-10 July 2014, Plymouth, UK.

# Other Considerations



## Interdisciplinary

Psychology, Law, Education

## Challenges

Time

Budget cycles

## Benefits for us

Applied research

Lots of Problems for Post Grad students

# Lessons learned about engagement in Higher Education



## Lesson Learned?

Successful Projects take **TEAMWORK**

If at first you don't succeed, **REFLECT** and try again

What can the **NNMU** do to support us?

Longer funding terms with less interim reporting

Questions or  
Comments?

