

BlackBerry 10 CampUs

BlackBerry invites you to join us for the **BlackBerry 10 CampUs** tour - a full-day workshop dedicated to providing the academic community with insights on the BlackBerry 10 platform; its strengths, the vision, its openness, and how students can make apps that stand out to app-hungry BlackBerry users.

Camp with us for a day so you can:

- Be one of the first to develop for the BlackBerry® 10 platform.
- Discover the power of BlackBerry® 10. Learn about the unique capabilities of BlackBerry® 10 to set your application apart.
- Learn how to use BlackBerry® 10 computing platform for your Labs, assignments, software development, course projects, design projects, etc.
- Collaborate with your community. Learn, share and network with your fellow developers. Make valuable connections that will make you even more successful with BlackBerry®.
- Know how to build a killer App; how to monetize; how to market your app.
- Get one-on-one expert guidance. Camp with BlackBerry® platform experts.
- Experience the BlackBerry® 10 Dev Alpha device and BlackBerry® Playbook.

Best Apps submitted by the participants of this workshop in BlackBerry® AppWorld subject to win BlackBerry® 10 smartphones, BlackBerry® Playbooks and BlackBerry® Accessories.

This is a *free workshop* and the number of participants is limited. You must register to attend this workshop and an early registration is advisable. For registration, email us using your *university email address* to blackberry10campus@rim.com with the following information.

1. Name:
2. Affiliate University:
3. Current Academic Program and Year:
4. The motivating reason for you to attend this workshop (few sentences should be sufficient):

Registrant must be a student, preferably third year and above with some exposure to software development.

Email confirmation will be sent to the selected participants only.

The general course material for BlackBerry®10 Native-track can be found at

<http://www.blackberryjamworldtour.com/presentations>.

Application development exercises will be added to this material. During the workshop we will take you through step-by-step application development process. It is essential that **participants bring their own laptop computer.**

Date: Saturday, September 22nd, 2012

Time: 9.00 AM to 5.00 PM

Venue: DC 1350, University of Waterloo

Coffee and Lunch will be provided

Speakers: Dr. Nagula Sangary and Dr. Mahi Velupillai

The workshop outline

1. Introduction to BlackBerry world, products and technologies

- History of RIM
- Key achievements of RIM
- A brief history of radios and Wireless technologies
- BlackBerry product design principles
- Introduction to BlackBerry10 world
- Flow; connect; extend
- We are committed
- Understanding the BlackBerry 10 experience
- Application packaging
- Monetization & Publishing

2. Platform Architecture and Application Development

- BlackBerry 10 architecture overview
- BlackBerry 10 and HTML5
- Make more money
- Community Development

3. BlackBerry 10 Native SDK and Cascades Fundamentals

- What is in it?
- What is new?
- HelloWorld C++ Lab
- HelloWorld QML Lab
- UI components
- Where is it? How to get it?

4. The Anatomy of a BlackBerry® 10 App

- Why Native?
- Application guidelines

5. BlackBerry Native SDK Tooling

- Setup
- Projects and Build Management
- Source Control Integration
- Editor features
- Running and Debugging
- Launch configurations
- Application Profiling
- System information
- And more

6. BlackBerry 10 Cascades Sample Applications

- Hello Cascades
- Pull My Beard
- Lightning Crossfade
- Cowbell
- Startup Setting
- Stamp Collector
- Quotes
- Speed Writer
- And more...

The breakdown of the workshop:

4 hours of presentations

2 hours of application development exercises

2 hours of breaks and discussions

Nagula Sangary (PhD) is a Principal Scientist/Technical Director responsible for Academic Research at Research in Motion Limited (RIM). He is also an Adjunct Professor in the Electrical and Computer Engineering department at McMaster University and Central South University in China. He is currently pursuing an Executive MBA degree at University of Oxford. He received his B.Sc in Electrical Engineering from Texas A&M University in 1988, M.A.Sc. and Ph.D. degrees in Electrical Engineering from McMaster University, in 1992 and 2002 respectively. He is also a member of engineering honors societies Eta Kappa Nu and Tau Beta Pi.

In the wireless industry, he has more than 18 years of work experience; from 1995 to 1998 he was with Nortel Networks working on CDMA hardware radio design and from 1998 to 2012 he has been with RIM, working on Wireless systems and RF designs based on all wireless standards. He holds more than 25 patents in the area of Wireless communication systems and has published over 35 papers in technical journals and conferences in the areas of Antenna, EM numerical simulation and Wireless communication. He is a reviewer for many journals and conferences and has chaired many sessions, authored and presented many technical and invited papers at several wireless conferences and standard committees. He is also a member of several academic program advisory boards and has an in-depth conceptual understanding of electromagnetism, microelectronics device physics, and wireless communication systems.

Mahi Veluppillai (PhD, SMIEEE) is a Member of Technical Staff for Academic Research at Research In Motion Limited. He received the B.Sc.Eng. in electrical and electronic engineering from the University of Peradeniya, Peradeniya, Sri Lanka, in 2000, the M.Eng. from National University of Singapore, Singapore, in 2003, and the Ph.D. degree in electrical and computer engineering from the University of Waterloo, Waterloo, ON, Canada, in 2007, respectively. He is a senior member of IEEE.

From 2000 to June 2001, he was an Instructor with the Department of Electrical and Electronic Engineering, University of Peradeniya. From July 2001 to August 2003, he was a Research Scholar with the Institute for Infocom Research (I2R), Singapore. From September 2003 to September 2007, he was a Research Assistant with the Centre for Wireless Communication, University of Waterloo. From October 2007 to September 2008, he was a Postdoctoral Fellow and Lecturer with the Department of Electrical and Computer Engineering, University of Waterloo. As a Lecturer, he taught Software Engineering to senior undergraduate students. From October 2008 to January 2008, he was a Postdoctoral Fellow with the Department of Electrical and Computer Engineering, University of Toronto, Toronto, ON, Canada. He joined RIM on February 2008, where he is currently a Member of Technical Staff. His current research interests are in wireless communications, software engineering aspects of mobile platform development, mobile user interaction design and multi-platform mobile application design. He authored more than 20 publications and a book chapter in wireless communications. He has over 5 patents filed/granted internationally.