



## “SMART APPLICATIONS ON VIRTUAL INFRASTRUCTURE”

### 2015 Annual General Meeting Agenda: Tuesday, July 7, 2015 - 8:25 am to 5:00 pm approx.

8:25 am	Welcome and AGM Overview - <a href="#">Al Leon-Garcia</a> , SAVI Scientific Director
8:30 am	Big Data Analytics in SAVI - <a href="#">Marin Litoiu</a> , York University
9:00 am	Security Analytics - <a href="#">Peter Smetny</a> , Systems Engineering Manager, Fortinet Inc.
9:30 am	Hadoop Orchestration - <a href="#">Raouf Boutaba</a> , University of Waterloo
10:00 am	Poster and Demo Session 1
11:00 am	Keynote: NFV and Orchestration - <a href="#">Walter Miron</a> , Director of Technology Strategy, TELUS Communications Co.
11:45 am	Technical Overview of SAVI SDI Testbed - <a href="#">Hadi Bannazadeh</a> , SAVI Chief Testbed Architect, University of Toronto
12:15 pm	Lunch: Poster and Demo Session 2
1:30 pm	Keynote: Smart City Challenges - <a href="#">Dragan Narandzic</a> , CTO, Ericsson Canada
2:15 pm	From SAVI SDI to Smart City Platforms - <a href="#">Al Leon-Garcia</a> , SAVI Scientific Director
2:45 pm	Poster and Demo Session 3
3:30 pm	SDN-Enabled Service Automation - <a href="#">Robert Keys</a> , CTO, BTI Systems Inc.
4:00 pm	Wireless over Fiber Access - <a href="#">Tho Le-Ngoc</a> , McGill University
4:30 pm	CENI SDN Optical Testbed - <a href="#">Rod Wilson</a> , Senior Director External Research, Ciena
5:00 pm	Closing Remarks - <a href="#">Alberto Leon-Garcia</a> , SAVI Scientific Director

### SAVI Testbed Workshop Topics: Monday, July 6, 2015 - 9:00 am to 6:00 pm approx.

9:00 am	Introduction to Basic Use of SAVI Testbed
10:45 am	Heat Orchestration: Autoscaling; Platform-wide
12:15 pm	Lunch
1:00 pm	NFV in SAVI SDI and ViNO (Virtual Network Overlay)
2:45 pm	SAVI/GENI <a href="#">Federation</a> : Joint GENI/SAVI Experiment
4:30 pm	Big Data using Sahara and Spark
6:00 pm	Conclusion

**Location:** Bahen Building, Room 1180, University of Toronto Campus, 40 St. George Street (Ground Floor)

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## GUEST SPEAKER BIO

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### **Mr. Peter Smetny**

*Systems Engineering Manager,  
Fortinet Inc.*

As a technical architect, Mr. Smetny-Sowa has extensive experience in systems infrastructure design and implementation. He offers vast experience as a network / security architect, with a wide range of network devices, protocols, applications, operating systems, as well as integration, best practise and design knowledge. His success is attributed to a demonstrated sense of accomplishment, leadership, dedication and initiative.

Specialties: Infrastructure architecture systems design; Security Architecture Design including VPN; Network Design, Analysis and Operations; Complex Integration: Internetworking; Technical Team Leadership; Proposal Preparation.

## GUEST SPEAKER BIO

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**Mr. Walter Miron**

*Director of Technology Strategy,*  
TELUS Communications Co.

Walter Miron is a Director of Technology Strategy at TELUS Communications, where he is responsible for the evolution of their TCP/IP and Optical networks.

He has over 20 years of experience in enterprise and service provider networking conducting technology selection and service development projects. Walter is a member of the research program committee of the SAVI project, the Heavy Reading Global Ethernet Executive Council, the ATOPs SDN/nFV working group, and represents TELUS at the Venus Cybersecurity Corporation, as the chairman and a board member for the Center of Excellence for Next Generation Networking (CENGN). He is frequently a speaker at industry conferences and working groups.

## GUEST SPEAKER BIO

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### **Dr. Hadi Bannazadeh**

*SAVI Chief Testbed Architect,*  
University of Toronto

Hadi Bannazadeh received his PhD in 2010 from the University of Toronto's Department of Electrical & Computer Engineering. After graduating, he worked at Cisco Systems as a Senior Network Software Engineer. In 2011, he returned to the University of Toronto to lead the efforts towards the creation of Canadian national testbed as part of the Smart Applications on Virtual Infrastructure (SAVI) research project. Since then, he has been the Chief Testbed Architect for the SAVI project. Hadi's main research interest is in the field of Software Defined Infrastructure (SDI) including Software Defined Networking (SDN) and Cloud Computing.

Prior to beginning the University of Toronto's PhD program, Hadi was first employed as a Software Engineer and then as a Software Architect for Iran Telecomm Research Center and Iran Communications Industries Inc. where he contributed to the design and development of a large scale telecomm switching system.

Dr. Bannazadeh received his MASc and BASc from Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran in 2001 and 1998 respectively.

### **List of Publications:**

<http://dblp.uni-trier.de/pers/hd/b/Bannazadeh:Hadi>

## GUEST SPEAKER BIO

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### **Mr. Dragan Nerandzic**

*Chief Technology Officer,*  
Ericsson Canada

Dragan Nerandzic joined Ericsson in 2001 and since 2006 has held the role of Chief Technology Officer for Ericsson in Canada. Mr. Nerandzic previously held the roles of VP Network Systems and Director of Technical Strategy.

Prior to joining Ericsson, Mr. Nerandzic was responsible for wireless technology planning and strategy for an operator's network. He actively participated in standardization and industry organizations including 3GPP2, TIA and CDG. Mr. Nerandzic also had responsibilities for engineering design of analog and digital mobile networks. Mr. Nerandzic's past experience includes working at the Faculty of Electrical Engineering at the University of Belgrade where he held various teaching and research roles in areas of fixed and mobile networks.

Mr. Nerandzic is a member of the MET Advisory Board at the University of Toronto, the Editorial Advisory Board of Backbone Magazine and Member of the Technical Panel at the Terrestrial Wireless Systems Branch of Communication Research Centre Canada. He is also a member of the Board of Directors of the Mobile Experience Innovation Center.

Mr. Nerandzic holds a Master of Science degree in Telecommunications and Computer Networks, Protocols and Switching, and a Bachelor of Science degree in Electrical Engineering from the University of Belgrade.

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## GUEST SPEAKER BIO

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**Mr. Robert Keys,**  
*Chief Technology Officer,*  
BTI Systems Inc.

Dr. Robert Keys brings over 20 years of communications engineering and leadership experience to his role as Chief Technology Officer. Prior to joining BTI Systems, Robert served as Chief Engineer for Bookham (now Oclaro), defining the company's technical roadmap and strategic investment requirements. Prior to Bookham, Robert held various influential roles in the development organization at Nortel, where he was responsible for the successful development and delivery of multiple optical products to market.

Robert is a well-known authority in the optical industry, and is a frequently sought-after speaker. He has more than 12 patents granted in the area of optical communications.

Robert has a Ph.D & M.Sc in Electronics and Electrical Engineering and a B.Sc in Physics from the University of Glasgow.

## GUEST SPEAKER BIO

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**Mr. Rodney Wilson,**

*Senior Director, External Research*

Ciena Canada

Mr. Wilson is responsible for Ciena's leadership & interactions with Universities and the research community, including national research and education networks. Residing within Ciena's CTO organization, he is able to orchestrate intersections between emerging technologies and research network experiments. He is a frequent contributor to research projects, demonstrations and discussions about advanced optical telecommunications systems.

Prior to his current role, Mr. Wilson was a senior advisor for the CTO at Nortel, and held other advanced technology roles during 13 years with the company, including director of Broadband Switching, and optical Ethernet development.

Originally trained in Electrical Engineering at Ryerson University in Toronto, Ontario and the University of Toronto and is a graduate of the Executive Management School at Stanford University in Palo Alto, California.

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