

Casual dress code strictly enforced!

NIAGARA 2016 SYMPOSIUM ON MICROGRIDS

Queen's Landing Hotel, Niagara-on-the-Lake
Thursday and Friday, 20-21 October 2016

Thursday 20 October – Morning Session

09:00-09:05	Amirnaser Yazdani, Ryerson U. & Symposium Chair Welcome
09:05-09:20	Mayor (invited), Niagara-on-the-Lake Welcome
09:20-09:30	Farid Katiraei, Quanta Tech., & Int. Symposium Steering Committee Chair The Microgrid Symposium Tradition
09:30-11:00 THE AMERICAS Session 1	
Chair: Jim Cale (NREL) & Bobby Sagoo (GE)	
09:30-09:50	Lisa Dignard-Bailey, NRCan, Abraham Ellis, Sandia National L., Overview of Microgrids in The Americas & Guillermo Jimenez, U of Chile
09:50-10:00	<i>Discussion</i>
10:00-10:20	Ryan LI, U. of Alberta Power Quality Control in Hybrid AC/DC Microgrids
10:20-10:30	<i>Discussion</i>
10:30-10:50	Claudio Canizares, U. of Waterloo Energy Management Systems for Microgrids
10:50-11:00	<i>Discussion</i>
11:00-11:30	Coffee Break
11:30-12:30 THE AMERICAS Session 2	
Chairs: Chris Marnay (MgDoM) & Judy Cardell (Smith College)	
11:30-11:50	Abraham Ellis, Sandia National Lab Improving Microgrid Cybersecurity
11:50-12:00	<i>Discussion</i>
12:00-12:20	Stone Edge Farm Microgrid: Goals, Challenges, and Pitfalls Craig Wooster & Jorge Martinez
12:20-12:30	<i>Discussion</i>
12.30-12.45	Group Photo
12.45-14.00	Lunch

Thursday 20 October – Afternoon Session

14:00-16:00

EUROPE Session

Chairs: Micky Albu (U. P. Bucharest) & Johan Driesen (K.U. Leuven)

14:00-14:20

Wolfram Heckmann, IWES
Overview of Microgrids in Europe

14:20-14:30

Discussion

14:30-14:50

Phil Taylor, Newcastle University
Automatic Microgrids?

14:50-15:00

Discussion

15:00-15:20

Aris Dimeas, NTUA
Smart Islands Networks with Very High Penetration of RES

15:20-15:30

Discussion

15:30-15:50

Volker Bühner, EUS GmbH
The SmartRuralGrid EU Project: Power Router and VPP Coupled LV-Microgrids

15:50-16:00

Discussion

16:00-16:30

Coffee Break

16:30-18:00

SPECIAL PANEL SESSION: The New York Prize

Chairs: Julieta Giraldez (NREL) & Peter Asmus (Navigant)

Maria Bruccoli, eDF Energy R&D
Paul Tyno, Buffalo Niagara Medical Campus
Robert Panora, Tecogen
Andrew Melchers, Siemens
Mike Bakas, Ameresco
Dennis Elsenbeck, National Grid

19:00-21:00

Dinner

Friday 21 October – Morning Session

09:00-10:30

ASIA Session 1

Chairs: Shigeru Bando (CRIEPI) & Jaeho Choi (Chungbuk Nat. U.)

09:00-09:20

Ryoichi Hara, U. of Hokkaido
Power to Heat Technology: Demand-side Contribution to Balancing

09:20-09:30

Discussion

09:30-09:50

Jong-Chan Lee, Green Tech
Tech. & Econ. Feasibility of Hybrid Microgrids

09:50-10:00

Discussion

10:00-10:20

Dehua Zheng, Goldwind
Goldwind Smart Microgrid and Industrial park Smart Energy Internet

10:20-10:30

Discussion

10:00-10:30

Coffee Break

10:30-12:00	ASIA Session 2
	Chairs: Yung-Ruei (Raymond) Chang (INER) & Meiqin Mao (Hefei U. of Tech.)
10:30-10:50	Zhang Jianhua, North China Electric Power U. Microgrid and IEC Standard
10:50-11:00	<i>Discussion</i>
11:00-11:20	Jia Liu, Osaka U. Parallel Operation of DG by Virtual Synchronous Generator Control
11:20-11:30	<i>Discussion</i>
11:30-11:50	Kuo-Yuan Lo, Taiwan Institute of Nuclear Energy Research Microgrid Technology Development at INER
11:50-12:00	<i>Discussion</i>
12.00-13.30	Lunch

Friday 21 October – Afternoon Session

13:30-15:10	REMOTE Session
	Chairs: Saad Sayeef (CSIRO) & Michael Ross (Yukon College)
13:30-13:45	Larisa Dobriansky, General Microgrids Remote Power Systems in India
13:45-13:50	<i>Discussion</i>
13:50 -14:05	John Ward, CSIRO Australian Outback Systems
14:05-14:10	<i>Discussion</i>
14:10-14:25	David Rodriguez, ENEL Ollagüe: Advanced Hybrid Microgrid in the Chilean Desert
14:25-14:30	<i>Discussion</i>
14:30-14:45	Mohammad Sedighy, Hatch Renewable Isolated Microgrids
14:45-14:50	<i>Discussion</i>
14:50-15:05	Clint (Jito) Coleman, TDX & Scott Manson, SEL St. Paul Island Alaska Microgrid Development Project
15:05-15:10	<i>Discussion</i>
15:10-15:40	Coffee Break

15:40-17:20	SPECIAL PANEL SESSION: on Microgrid Controllers and HIL Testing
	Chairs: Farid Katiraei (Quanta Technology) & Russ Neal (Power Innovation)
	Steve Drouilhet, Sustainable Power Systems, Inc. Bobby Sago, GE Luis Zubieta, ARDA Power Inc. Lorenzo Reyes Chamorro, EPFL Jean Nikolas Paquin, Opal-RT Onyi Nazimako, RTDS Frank Kling, ETAP Paul Roegel, Typhoon HIL

17:20-18:00	CLOSING SESSION
17:20-17:30	Wrap-up of the Niagara 2016 Symposium on Microgrids 2016 Symposium Chairs: Farid Katiraei & Amir Yazdani
17:30-17:40	Tour Introduction Canadian Solar (Peter Su), PowerStream (Shuvo Chowdhury)
17:40-18:00	Newcastle 2017 Symposium on Microgrids 2017 Symposium Chairs: Saad Sayeef
	Dinner on your own

BACK-UP SPEAKERS

Back-Up 1	Ali Mehrizi-Sani, Washington State U. Power Electronics for Integration of Renewables
Back-Up 2	Johan Driesen, K.U. Leuven DC Nanogrids in Buildings
Back-Up 3	Hua Geng, Tsinghua U. Stability Analysis for Multi-Converter Microgrids
Back-Up 4	Markson Tang, DLRE Application of H2 for Higher Energy Efficiency in Smart Grid Generation
Back-Up 5	Maria Brucoli, eDF Power Research Virunga Park Electrification
Back-Up 6	Chris Marnay, MgDoM A US-China-Europe Smart Grid Benefits Comparison

Saturday 22 October – Canadian Solar & Power Stream

08:00 -08:15	Carpool departure from Queen’s Landing Hotel
09:30 –09:45	Arrive at Canadian Solar Test Facility (@395 Southgate Drive, Guelph, Ontario)
09:45 - 10:00	Welcome to Canadian Solar Microgrid Test Centre
10:00 – 10:30	Tour of Guelph Hydro Control Room
10:30 - 11:00	Drive from Guelph Hydro to Canadian Solar factory (@ 545 Speedvale Ave. West, Guelph, Ontario)
11:00 - 11:30	Visit Canadian Solar PV plant Control Centre
11:30 - 12:30	Lunch & Presentation (sponsored by Canadian Solar)
12:30 - 13:30	Carpool ride to Powerstream Control Centre in Vaughn, Ontario; (note, it’s recommended cars be left overnight in the Power Stream parking lot by those continuing to the Sunday tour)
13:30 -15:00	Power Stream Control Centre Tour
15:00-15:30	Bus departure to Midland Inn & Suite, Midland, Ontario
	Dinner on your own

Sunday 23 October – PowerStream Barrie Microgrid

09:00	Bus departure from Midland Inn & Suites
09:30-11:30	Tour of the PowerStream Microgrid
11:30-12:30	Lunch (Sponsored by PowerStream)
12:30-14:30	Bus ride to Power Stream Building in Vaughn ON
14:30	Carpool to Pearson Airport or alternative destinations
	Tour Ends at Power Stream Facility