

# 11th International Workshop on the Application of FPGAs in Nuclear Power Plants

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## Opening Remarks

Mark Burzynski  
Chief Executive Officer

October 8-11, 2018  
Dallas, Texas, USA

**Sun** *port*  
Connecting Forward

**FPGA workshops have a long history of international participation by utilities, vendors, regulators, and research organizations**

2008 Chatou, France, hosted by EdF

2009 Kirovograd, Ukraine, hosted by RPC Radiy

2010 Hamilton, Ontario, Canada, hosted by AECL/McMaster University

2011 Chatou, France, hosted by EdF

2012 Beijing, China, hosted by CNCS

2013 Kirovograd, Ukraine, hosted by RPC Radiy

2014 Charlotte, North Carolina, USA, hosted by EPRI

2015 Shanghai, China, hosted by SNPAS

2016 Lyon, France, hosted by EdF SEPTEN

2017 Gyeongju, South Korea hosted by Doosan Heavy Industry & Construction

## Welcome to the 11<sup>th</sup> FPGA workshop organized by SunPort

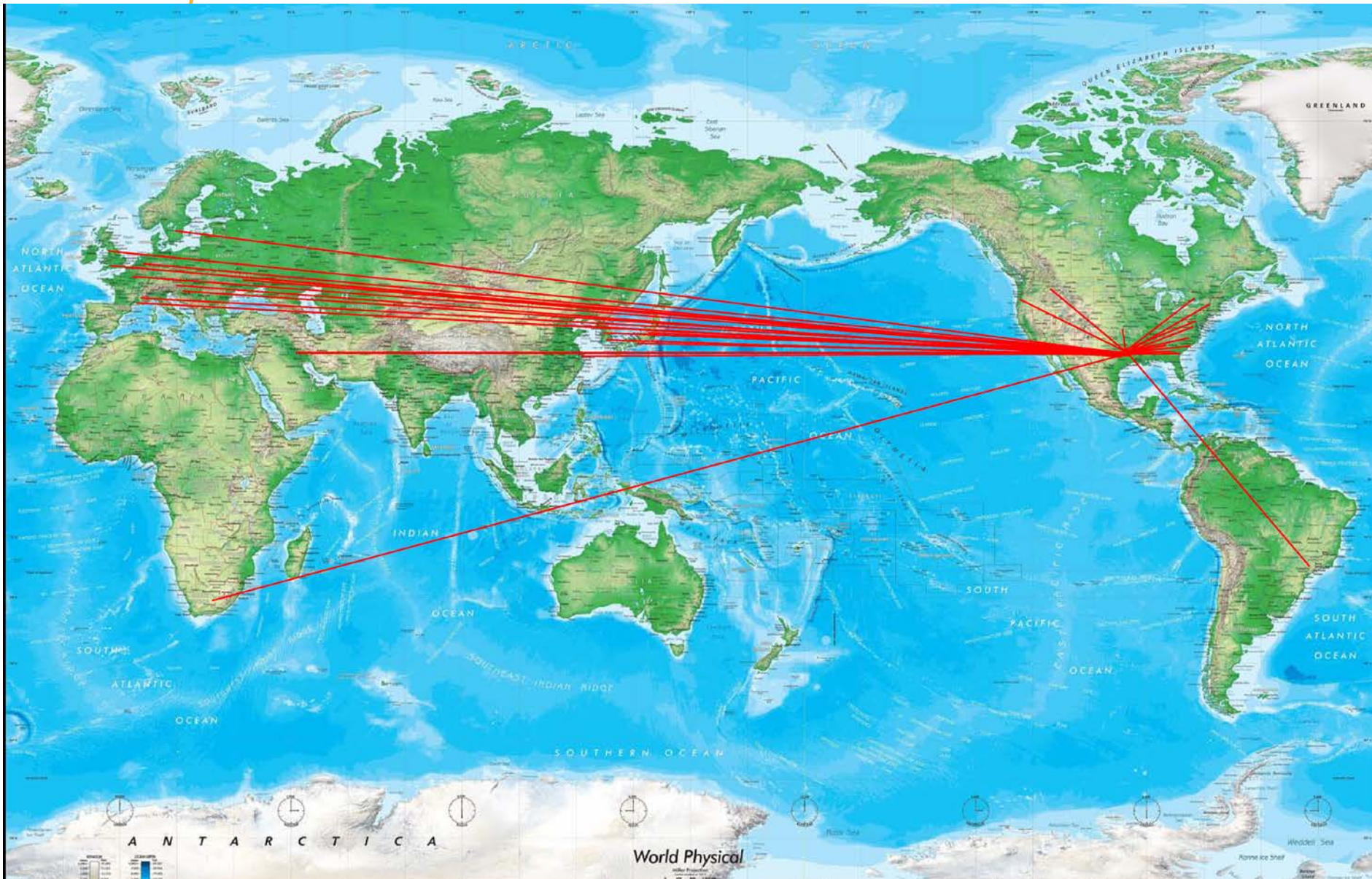
- hosted by Doosan HF Controls
- in cooperation with the International Atomic Energy Agency
- additional sponsors Radiy and Curtiss-Wright



## The meeting in numbers:

- 67 participants
- 14 countries
- 5 invited presentations
- 20 technical presentations
- 3 workshop discussions
- 3 vendor exhibitors
- 8 engineering services
- 6 I&C vendors
- 5 NSSS suppliers
- 5 utilities/NPPs
- 5 nuclear regulators
- 4 institutes
- 1 university
- 1 international organization
- 1 federal

# Who travelled the furthest?



## Technical Sessions and Workshop Discussions

- **V&V Best Practices**
- **Practical Experiences from FPGA Projects**
- **Use of Diversity in FPGA-Based Systems**



Interactions to  
share  
experiences ...  
... develop new  
ideas and  
relationships ...  
... to help each  
other, our  
countries, and  
the global  
industry

## Vendors Exhibits

➤ Doosan HF Controls



➤ Research and Production Corporation Radiy



➤ Curtiss-Wright



Thank our sponsors

## Today's Morning Program

| <i>Day 1 – Monday, 8 October 2018</i>              |   |  |
|--|---|--|
| <b>Time</b>  | <b>Event</b>  | <b>Speaker</b>                                       |
| 8:00 – 9:00  | Registration  |  |
| <b>Opening Session</b>                             |   |  |
| 9:00 – 9:15  | Welcome, Introduction & Agenda  | Mark Burzynski<br>SunPort SA                         |
| 9:15 – 9:45  | Message from the Host Organization: Digital I&C Design & Implementation for NPPs  | Steve Yang,<br>Doosan HF Controls                    |
| 9:45– 10:30  | Invited Presentation 1: IAEA Activities in the Field of Nuclear I&C Engineering   | Janos Eiler<br>IAEA                                  |
| 10:30 – 11:00                                      | Coffee Break  |  |
| 11:00 – 11:45                                      | Invited Presentation 2: Development and Application Experience of FPGA and CPU based system for safety related I&C system | Kook Hun Kim<br>Doosan Heavy Industry & Construction |
| <b>Technical Session on V&amp;V Best Practices</b> |   |  |
| 11:45 – 12:30                                      | Presentation 1: Development of Doosan HFC-FPGA Platform   | Jordan Mott<br>Doosan HF Controls                    |
| 12:30 – 14:00                                      | Lunch Break   |  |





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**Thank you all for your participation**

**SunPort SA**

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