



# THE SAFETY-CRITICAL SYSTEMS CLUB

## Safety of Critical National Infrastructure Systems

**21 April 2015, Cumberland Hotel, Marble Arch, London**

Critical national infrastructure comprises assets that are vital to the continued delivery and integrity of the essential services upon which we all rely; loss or compromise of such assets could lead to severe economic or social consequences, or to loss of life. Relevant systems support communications, emergency services, energy, food, government, defence, health, transport and water.

Many of these areas have significant safety risks and this seminar will examine the ways in which these risks are managed.

The UK government has published an assessment of risks due to natural hazards, but some of these sectors have known underlying systemic security vulnerabilities, e.g. SCADA systems in utilities. The potential of common-mode and common-cause failures will be discussed to see how they could affect multiple systems and sectors simultaneously.

Assessing risk in this area is seen as problematic due to the low likelihood but very high impact of some of the risks, and also the very low public tolerability of failures.

The seminar will also include a panel session, which will give an opportunity for delegate feedback.

### Cost and registration

To Club members the cost is £195, including lunch and refreshments (no VAT). Non-members pay an extra £95 for Club membership (£15.83 VAT). Joining instructions and the final programme will be sent to registered delegates about two weeks before the event. Delegates must book their own accommodation (if required).

Managing Safety of Critical Infrastructure

[www.scsc.org.uk/events](http://www.scsc.org.uk/events)

**This seminar will feature presentations by safety experts working in the field of critical national infrastructure, and those involved in operating, assessing, and licensing the systems and facilities involved.**

**Details of this and other events at: [www.scsc.org.uk](http://www.scsc.org.uk)**

**Safety-Critical Systems Club:** I would like to attend the seminar on 21<sup>st</sup> April 2015

Name ..... Organisation .....

Address .....

Telephone ..... Email ..... Vegetarian: Yes/No

I am not an SCSC member, so need to join and pay £290       I qualify for the SCSC member rate of £195

**To pay by cheque, please enclose a cheque for £195 or £290, payable to:** Newcastle University (CSR)

**To pay by credit card, please complete the following:**  MasterCard    Visa    American Express

Name on card ..... Card No .....

Amount to be charged ..... Expiry date ..... Security No .....

Cardholder's Address .....

**Please return this registration slip with your payment to:**

Joan Atkinson, Centre for Software Reliability, Claremont Tower, Newcastle University, Newcastle upon Tyne, NE1 7RU.

Phone: 0191 221 2222

Fax: 0191 208 7995

Email: [joan.atkinson@newcastle.ac.uk](mailto:joan.atkinson@newcastle.ac.uk)

# Safety of Critical National Infrastructure Systems

21st April 2015

The Cumberland Hotel, London

## Programme

09:30 **Registration and coffee**

10:00 Introduction

10:05 **Ali Hessami**  
Vega Systems

*Infrastructure Systems Safety Assurance, Process Versus People!*

10:50 **David Lund**  
David Lund Consultants

*Safety and Security Risks in IT Infrastructure*

11:35 **Rick Vinter**  
CGI UK Ltd

*Smart Metering: Safety Management of the DSP Programme*

12:20 **Lunch**

13:30 SCSC update

13:35 **Peter Bernard Ladkin**  
University of Bielefeld and Causalis Limited

*Some Resilience Characteristics of Complex Infrastructural Systems*

14:20 **Chris Johnson**  
Glasgow University

*Risks to Nuclear and Aviation Infrastructure*

15:05 **Tea**

15:30 Panel Discussion chaired by **Martyn Thomas**  
Non-Executive Director, Health and Safety Executive

16:30 Closing remarks

16:35 **Close**