

# UK DESIGN FORUM

UKDF'22  
16-17 March 2022

Enquiries to:  
(02380) 593374  
adb@ecs.soton.ac.uk

County Hotel, Newcastle

## Programme

### The Programme:

**Wednesday, 16 March**

*Evening chair: Simon Moore*

*Arrival Gather in the bar*

*18:00 Dinner*

*19:15 Invited talk - Jamie Urquart: My notable moments during Moores Law.*

*20:00 Adjourn to the bar*

**Thursday, 17 March**

*Morning chair: Andrew Brown*

*09:02 Andrew Brown: Introduction and welcome*

*09:05 Steve Furber: BitBrain and sparse binary coincidence memories*

*09:30 Simon Moore: ARM Morello - towards the first commercial capability machine*

*09:55 Dirk Koch: FPGA security in practise: how to crash an AWS F1 FPGA instance and how to prevent that*

*10:20 John Goodenough: Extensible secure SoC platforms*

*10:45 Coffee*

*11:15 John Goodacre: How digital security by design could change the world*

*11:40 Basel Halak: Machine learning and hardware security: foes or friends?*

*12:05 Tim Drysdale: Remote laboratories*

*12:30 Lunch*

*Afternoon chair: Piotr Dudek*

*13:30 Sidarth Maheshwari: Challenges and advantages of embedded genomics*

*13:55 Tousif Rahman: An introduction to Tsetlin machines: a logic based alternative approach to machine learning*

*14:20 Asen Asenov: The iUK Cryo CMOS project*

*14:45 Graeme Bragg: IPV6 in UK academia*

*15:10 Tea and demonstrations.... (grab a cuppa and sit back down).*

*.... Demonstrator introductions*

*15:20 Intro1. Patrick Dagenaar: CANDO brain implant*

*15:35 Intro2. Victor Khomenko: Workcraft*

*15:50 Gather round the demonstration tables and ask hard questions*

*16:30 (ish) Close*

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***UKDF'22 welcomes you:***

A few notes.....

- As with previous years, we have bought the bar for you. Your UKDF badge is your passport to free service; please wear it all the time you're in the hotel, otherwise they'll start charging you for stuff.
- Tucked into your badge holder is a nice little card showing the food you'll be getting at dinner. This is for the benefit of the serving staff. When you sit down, please put the card somewhere obvious on the table in front of you so that they can see what goes where.
- Some of you - hopefully a minority - will be thinking "Hang on, this is not what I asked for." This is because - at vast expense - we have a choice of menu this year, rather than the traditional "This is it, get over it" we have enjoyed in previous venues. The hotel offered us a range of food, and I had to condense this down to a selection from three alternatives for each course. For the technically minded, this necessitated a discrete contraction mapping, which was accomplished using a combination of a multiple transferable voting system, and a powerful numerical heuristic you may have come across sometimes known as the *fera coniectura et sperate* technique. Giving things latin names often supplies a veneer of credibility, and makes folk think you know what you're doing.
- To be fair, I asked you what you'd like - I never said you'd get it. I can't see that there would be any problem with you swapping dishes between yourselves if it's mutually convenient. Trefzer - there will be cutlery. Try your best.
- The hotel needs to prepare your rooms for the next days guests, so please clear your room and hand your room keys back to reception immediately after breakfast.

It's been a while, and it's great that the hotel were so accommodating and that you're all still coming. It'll be really good to see you all again.

*Andrew Brown      Simon Moore      Piotr Dudek*