



## **INTER-ACADEMY INTERNATIONAL WORKSHOP ON 'FUTURE COMMUNICATIONS AND 6G'**

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**TECHNOLOGY AND INNOVATION CENTRE  
UNIVERSITY OF STRATHCLYDE  
GLASGOW, SCOTLAND**

**MONDAY 24 - TUESDAY 25 JUNE, 2024**

**ORGANISERS:**

**PROFESSOR TARIQ DURRANI (CHAIR)**

**DR MALLIK TATIPAMULA (VICE CHAIR)**

Future development of Wireless Communication Systems is materially bound to the success and growth of modern economies. To track current trends and address emerging directions, a Workshop is proposed that will bring together decision makers, thought leaders, keynote academics, and influential industrialists, who will debate and discuss critical issues, address present day concerns, propose effective solutions and explore international collaboration.

A key element will be the pull through from fundamental research and development to demonstrative economic impact. The Workshop will be accompanied by an Exhibition, giving SMEs an opportunity to interact with international players.

The event is organised in partnership with the following Academies, representing engineering at their respective countries' highest levels; with the aim of discussing global telecommunications for next generation communication.

**US National Academy of Engineering  
Royal Academy of Engineering  
Canadian Academy of Engineering  
Royal Swedish Academy of Engineering Sciences  
Royal Society of Edinburgh  
Indian National Academy of Engineering  
National Academy of Engineering of Korea  
IEEE Future Network**

# DAY I

## MONDAY 24 JUNE 2024

**09:00-10:00**      **REGISTRATION**

**10:00-10:05**      **OPENING COMMENTS**  
**TARIQ S DURRANI** (University of Strathclyde)  
**MALLIK TATIPAMULA** (Ericsson)

**10.05-10.10**      **WELCOME**  
**SIR JIM MCDONALD**  
*President, Royal Academy of Engineering, and Principal, University of Strathclyde*

**10:10-10:45**      **SESSION I**  
**WELCOME COMMENTS FROM ACADEMY PRESIDENTS**  
(In person or by video)

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|----------------------------------|--|
| <b>Sir John Ball</b>             | President, Royal Society of Edinburgh                    |
| <b>Dr John Anderson</b>          | President, US National Academy of Engineering            |
| <b>Dr Catherine Karakatsanis</b> | President, Canadian Academy of Engineering               |
| <b>Professor Indranil Manna</b>  | President, Indian National Academy of Engineering        |
| <b>Mr Marcus Wallenberg</b>      | President, Royal Swedish Academy of Engineering Sciences |

*Moderator:*      - **Tariq S Durrani** (University of Strathclyde, UK)

**10:45-11:45**      **SESSION 2**  
**UK TELECOM ACTIVITIES AND STRATEGIES FOR 6G**

*To present current developments and future detractions of Communications in the UK*

- **WELCOME TO SCOTLAND, OUR VISION FOR A DIGITAL FUTURE**  
**Geoff Huggins**      Director Digital Scotland Scottish Government (UK)

**UK EPSRC Telecoms Hubs Speakers:**

- **Harald Haas**      Director of Platform Driving The Ultimate Connectivity (TITAN) - Network of Networks (University of Cambridge, UK)
- **Dominic O'Brien**      Director of Hub on All-Spectrum Connectivity (HASC) (University of Oxford, UK)
- **Muhammad Imran**      Director of Communications Hub for Empowering Distributed Cloud Computing Applications and Research (University of Glasgow, UK)
- **Rahim Tafazolli**      Director Institute for Communications Systems (University of Surrey, Guildford, UK)

*Moderators:*      - **Chris Johnson** (Pro VC QUB and Chief Scientist Designate DSIT, UK)  
                         - **Jacqueline Redmond** (Chair CENSIS, UK)

**11:45-13:00**      **SESSION 3**  
**INTERNATIONAL 6G STRATEGIES AND USE CASES**

*Representatives will articulate their national strategies for communications and 6G developments.*

- **BHARAT 6G ALLIANCE'S VISION AND INITIATIVES FOR TRANSFORMATIVE 6G TECHNOLOGIES IN INDIA**  
**Kiran KUCHI**      IIT Hyderabad (India)
- **CANADA'S FUTURE NETWORKS VISION**

- **Halim Yanikomeroğlu** Carleton University (Canada)
- *US' NEXT 6G INITIATIVES*
- **Venki Ramaswamy** Chief Technologist for Next G Mitre Corporation (USA)
- *EUROPE 6G VISION INCLUDING THE POSITION OF THE EU FLAGSHIP PROJECT HEXA-X-I*
- **Magnus Frodigh** Vice President and Head of Research, Ericsson (Sweden)
- *5G EVOLUTION AND 6G*
- **Takehiro Nakamura** Chief Standardization Officer, DoCoMo (Japan)
- *IEEE 2030 TIMEFRAME*
- **Ashutosh Dutta** Senior Scientist, 5G Chief Strategist EEE Future Networks, Johns Hopkins University (USA)

Moderators: - **AI P Pisano** (UC San Diego, USA)  
- **Muriel Medard** (MIT, Cambridge, USA)

### 13:00 -14:15 LUNCH and EXHIBITION

### 14:15 -15:30 SESSION 4 INDUSTRY INFLUENCERS FORUM I

*Presentations by senior industrialists addressing emerging opportunities, technologies for 6G development and vehicles for greater industry engagement and international collaboration between industry, academe and government agencies.*

- **Mallik Tatipamula** CTO, Ericsson Silicon Valley (USA)
- **Maria Cuevas** Network Infrastructure Research Director BT (UK)
- **Junyi Li** VP Engineering and Qualcomm Fellow, Qualcomm (USA)
- **Jeff White** CTO Edge, DELL Computers (USA)
- **Victor Bahl** CTO Azure Microsoft (USA)

Moderators: - **Magnus Frodigh** (Ericsson, Sweden)  
- **Monisha Ghosh** (University of Notre Dame, USA)

### 15:30-16:00 REFRESHMENTS

### 16:00 -17:15 SESSION 5 FUTURE POLICIES FRAMEWORK AND SPECTRUM REQUIREMENTS PANEL

*Where thought leaders from participating countries will discuss policy issues, regulations and Spectrum requirements and opportunities for international collaboration.*

- **David Willis** Group Director for Spectrum OFCOM (UK)
- **Robert Stewart** University of Strathclyde (UK)
- **Monisha Ghosh** University of Notre Dame (USA), Former CTO FCC
- **Mark Waddell** Lead R&D Engineer, BBC R&D (UK)
- **David Lister** 6G Research Lead Vodafone Group (UK)
- **Ed Tiedemann Jr** Senior VP Engineering and Qualcomm Fellow Qualcomm Technologies, Inc (USA)

Moderators: - **Abhaya Sumanasena**, (UK Spectrum Policy Forum (SPF), UK)  
- **Ashutosh Dutta** (Johns Hopkins University, USA)

### 17:15-18:30 EXHIBITORS' DRINKS RECEPTION 3<sup>rd</sup> Floor Foyer TIC Building

### 18:30-21:30 SPEAKERS' BANQUET (By invitation only) Glasgow City Chambers

In the elegant Satinwood Suite of the City Chambers in the presence of Glasgow's Lord Provost Jacqueline McLaren.  
**Banquet Speaker: Martin Hendry** (University of Glasgow, UK)

## DAY 2 TUESDAY 25 JUNE 2024

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Day 2 of the Workshop is divided into four sessions with keynote speakers from:

- Academia
- Roundtable discussion on Standards
- R&D funding sources
- Future directions and Next Steps.

### 09:00-09:15 OPENING ADDRESS

- **Mr Tom Arthur MSP,**  
Minister for Employment and Investment. Scottish, Government (UK)

Moderator: - **Tariq Durrani** (University of Strathclyde, UK)

### 09:15-10:30 SESSION I ENGINEERING ACADEMIC INFLUENCERS PANEL

Here academic thought leaders will discuss ongoing research activities and potential key technologies for the next decade, with a view to offering topics for collaboration by international teams

- **Tommy Svensson** Chalmers University (Sweden)
- **Alberto Leon-Garcia** University of Toronto (Canada)
- **Radhakrishna Ganti** IIT Madras (India)
- **Muriel Medard** MIT (USA)
- **Dereje Agonafer** University of Texas, (Arlington, US)

Moderators: - **Dame Muffy Calder** (University of Glasgow, UK)  
- **Harald Haas** (University of Cambridge, UK)

### 10:30-11:00 REFRESHMENTS

### 11:00-12:15 SESSION II STANDARDS FORUM

To present state-of-the-art on Standards for future communications and 6G and directions for future development

- **Luis Jorge Romero** Director General, ETSI ( France)
- **Ed Tiedemann Jr** Senior VP Engineering and Qualcomm Fellow *Qualcomm* Technologies, Inc (USA)
- **Kota Kodai** ITU-Telecom Standardization Bureau (Switzerland)
- **Iain Sharp** ATIS (USA)
- **Matthew Baker** Bell Labs Fellow, Nokia Standards (UK)

Moderators: - **John Cioffi** (Stanford University, USA)  
- **James Irvine** (University of Strathclyde, Glasgow, UK)

### 12:15-13:00 SESSION III INDUSTRY INFLUENCERS FORUM II

Presentations by senior industrialists addressing emerging opportunities, technologies for 6G development and vehicles for greater industry engagement and international collaboration between industry, academe, and government agencies.

- **Ben Allen** Director, Eutelsat OneWeb (UK)
- **Mo Zoualfaghari** Global Technology Lead, Amazon Wireless Services Telecom (UK)
- **Dilip Krishnaswamy** Director Bangalore Centre for Development of Telematics C-DOT (India)

- **Leon Lobo** Head National Timing Centre, National Physical Laboratory (UK)
- **Yoshi Nakajima** 'Integration of 5G/6G high-speed communication and AI computers' Tokyo Institute of Technology, Engineering Academy of Japan (Japan)

Moderators: - **Rahim Tafazolli** (University of Surrey, Guildford, UK)  
 - **Toktam Mahmoodi** (Kings College London, UK)

**13:00-14:00 LUNCH and EXHIBITION**

**14:00-15:30 SESSION IV  
 INTERNATIONAL RESEARCH FUNDING AGENCIES PANEL**

*Funding Agencies will discuss their roles and identify vehicles for international collaborations, encouraging cross national joint projects advancing 6G developments*

- **Abouzeid Alhussein** National Science Foundation (USA)
- **Frederic Pillot** Vinnova (Sweden)
- **Janette Wark** Head of Regional Engagement(Scotland UKRI EPSRC (UK)
- **Tejas Patel** DARPA (USA)
- **Pekka Rantala** Head of 6G Bridge Program, Business Finland ( Finland)

Moderators: - **Henrik Almeida** (Ericsson, UK)  
 - **Ellen Zegura** (National Science Foundation, USA)

**15:30-16:00 REFRESHMENTS**

**16:00-16:30 WRAP UP  
 Roundtable on "Potential Collaboration Areas"**

International outlook (geopolitical realities/risks, investments in different regions) - collaboration areas. Future Directions and Closing Remarks.

Moderators: - **Al P Pisano** (UC San Diego, USA)  
 - **Guru Madhavan** (National Academy of Engineering, USA)

**17:00 DEPARTURE**

11.06.2024