

IEEE-SA Presents:

Wearables and Medical IoT Interoperability & Intelligence (WAMIII) Workshop 2018

Security, trust, privacy and interoperability for a connected clinical device ecosystem

There are millions of devices currently in the health ecosystem that monitor and/or deliver life-saving treatment for patients from the hospital bed to the comfort of their living rooms. These “deep technology” health devices are surging in growth and coming in new forms all trying to keep the patients connected to extract data that would lead to better surveillance, diagnostics or treatments. With so many of these devices on or around patients, many questions come to mind: If patients are connected through devices, then how is it they are unconnected from their data? How secure are the devices and the data distribution channels? Where is the data going? Are these devices interoperable? What are the technology limitations of these devices? And the list goes on...

Date:

Tuesday, 13 November 2018

Time:

08:00 – 18:00

Venue:

University of Glasgow
Clinical Innovation Zone
Glasgow, Scotland
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WAMIII Europe

The current status: an individual health wearable, IoT, IoT (Internet of Implantable Medical Things) or “smart device” can collect data of one patient and share that data back to its final destination. Multiple this by millions of devices and patients and there are very big data sets doing very little for both the patient and the overall healthcare system. Why? The devices are not interoperable, and therefore the data trapped within those individual systems cannot be intelligently mined and used for any other clinical applications.

We have had two successful workshops in the US and now we are bringing the discussion to Europe. **The goal of WAMIII is global:** secure the devices and the data; make them interoperable with other devices and blockchain so that the data can open new doors in research and diagnostics; empower the patient to manage and access their data to retain their privacy and choose how to manage their health; and finally deliver on the promise of a connected health ecosystem. How will we do that? By bringing progressive minds like yours to collaborate and engage in our edu-working sessions that will lead to frameworks for either technical standards or industry guidance.

solutions for technology, regulatory and business issues around interoperability while exploring the potential add-on applications (integration with AI, Robotics, and Machine Learning) with blockchain that can offer robust and intelligent use of patient data to advance the future of healthcare while empowering the patient to retain privacy and management of their data.

Who Should Attend?

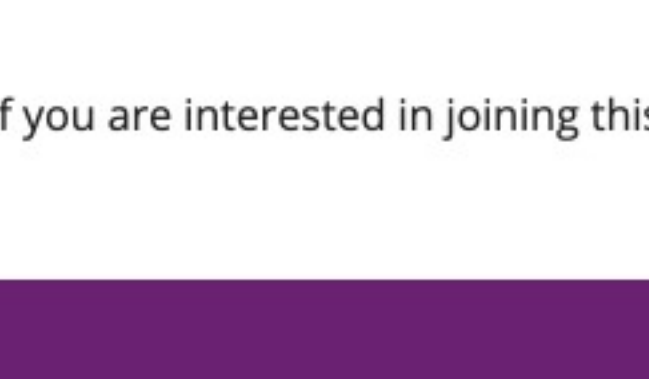
YOU, if you are in any of the following areas:

- Clinical Trials Design & Operations
- Clinical/Medical Professional
- Health Insurance Payment
- Health Wearable Start-Up
- Hospital/Health System – Innovation and Data Project Leads
- Medical Device Manufacturers – product design or engineering
- Medical Device Software – design or engineering
- Micro-Electro-Mechanical Systems (MEMS) product design or engineering
- Research: Academia or Industry
- Other: Enthusiast not mentioned in this list

If you are interested in joining this growing list of supporters and partners, please write to helen.scott@ieee.org or m.palombini@ieee.org.

Supporting and Partners Sponsors

With our sponsors and partners, we could not make this initiative (advancing the adoption of viable blockchain applications) possible. A special thanks to:

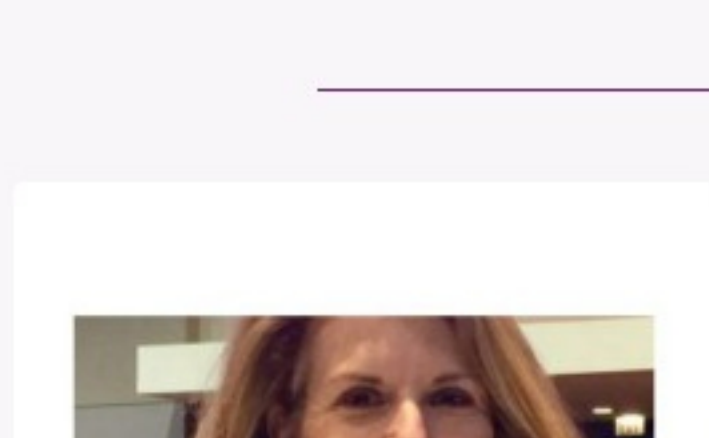


DAY 1: Wearables & Medical IoT Interoperability & Intelligence (WAMIII) Track

Addressing challenges, opportunities and needs for validating data from a clinical-grade IoT and making it interoperable with blockchain and other areas of the medical device ecosystem while empowering the patient to manage, own and access the information derived from the devices.

Time	Session Name
08:15 - 09:00	Registration and Breakfast
09:00 - 09:30	Welcome: Why We Are Here The Roadmap to Adoption for Validated and Effective use of IoTs and Blockchain in Clinical Trials and Research <i>Maria Palombini, IEEE-SA</i>
09:30 - 10:10	Meeting Demands in Hardware and Software for Clinical IoTs to Achieve Interoperability and Stakeholder Satisfaction <i>Florence DiStefano Hudson</i> Special Advisor, Trusted CI, The NSF Cybersecurity Center of Excellence at Indiana University; Lead, IEEE-SA Clinical IoT Data Validation and Interoperability with Blockchain Workstream
10:10 - 10:50	Clinical IoTs, Blockchain and the Connected Medical Device System <i>Susan Ramonat, CEO, Spiritus Partners</i>
10:50 - 11:10	TECH BREAK
11:10 - 11:50	Fixing the Patient Trust Deficit in IoTs and Healthcare with Blockchain <i>Nicolas Schmidt</i> CTO, Emblema
11:50 - 1:30	Layering Intelligence to Clinical Wearable/IoT Data through the Responsible Application of AI <i>Siddhi Trivedi</i> Global Strategy Advisor, Lucidium
12:30 - 13:15	INTERACTIVE NETWORKING LUNCH
13:15 - 13:55	Interoperability and Security of Healthcare, Challenges of Current Approaches and Future Solutions <i>Gilbert Verdian</i> CEO and Founder, Quant
13:55 - 14:35	The Use of Wearables and Sensor Technology in Monitoring Adverse Reactions <i>Darpan Ahuja</i> Co-Founder, ConsiX
14:35 - 15:15	Lightening Round Expert Talks: Progress on Clinical IoTs 3 Presentations at 15 Minutes Each Interactive Q&A with Audience
15:15 - 16:15	Working Group Roundtable Discussions
16:15 - 16:30	Closing Remarks: Summary of working group outcomes and day activities <i>Maria Palombini, IEEE-SA</i>
16:35 - 17:00	Tour of the Clinical Innovation Zone
17:00 - 18:00	Ice Breaker Reception for Blockchain for Clinical Trials Participants
	For Days 2 & 3 of Blockchain for Clinical Trials Forum EU, click here

Confirmed Speakers



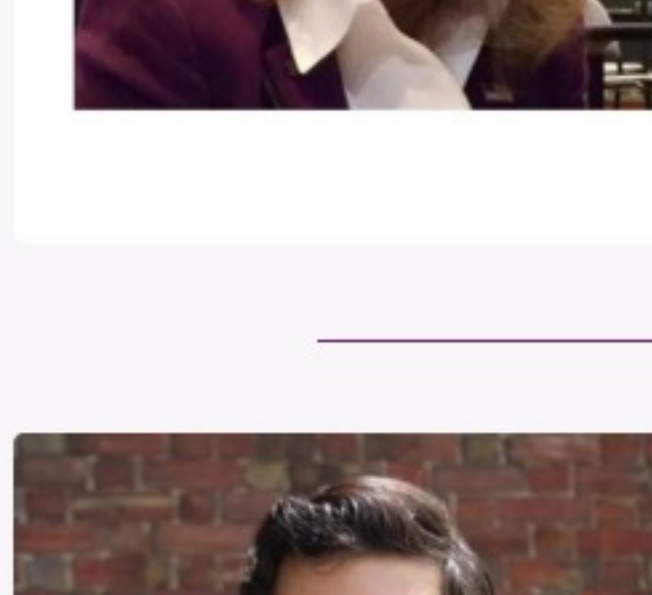
Florence D. Hudson

Blockchain in Healthcare Today Editorial Board
Special Advisor Next Generation Internet for the Northeast Big Data Innovation Hub
Former IBM Vice President and Internet2 Senior Vice President & Chief Innovation Officer

Florence Hudson is a former IBM Vice President and Chief Technology Officer, and Internet2 Senior Vice President and Chief Innovation Officer. She serves on the Editorial Board of the Journal Blockchain in Healthcare Today. She works with the IEEE Standards Association on end to end trust and security for the Internet of Things, Blockchain for Clinical Trials, and WAMIII (Wearables and Medical Interoperability). She is also Special Advisor to the Northeast Big Data Innovation Hub for Next Generation Internet at Columbia University.

She participated in the Cancer Moonshot Summit hosted by United States Vice President Joe Biden in 2016, and presented in the Academic Medical Centers (AMC) Security & Privacy Conference Series in 2015 on Security and Privacy Strategies for Expanded Communities, and Biomedical Device Security Challenges and Opportunities. She is on the program committee for the Computational Approaches for Cancer workshop at SuperComputing, and was a panelist and speaker at the first IEEE CHASE Conference on Connected Health in 2016 (CHASE = Connected Healthcare, Applications, Systems and Engineering technologies). She speaks in many venues regarding blockchain, the Internet of Things, and smart campus and communities.

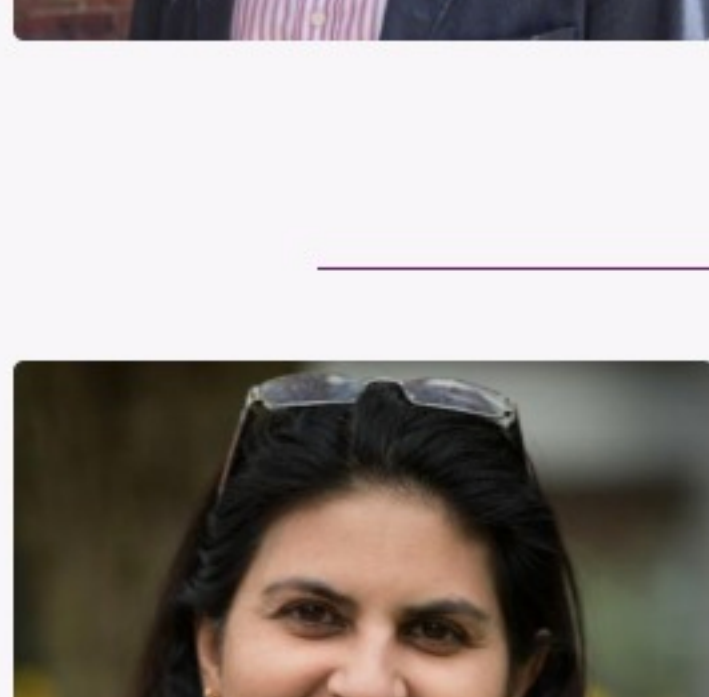
Ms. Hudson earned a BSE in Mechanical and Aerospace Engineering at Princeton University, beginning her career at Grumman Aerospace and NASA, prior to HP, IBM, Internet2, Blockchain and the Northeast Big Data Innovation Hub. She has attended executive education at Harvard Business School and Columbia University.



Susan Ramonat

CEO and Founder, Spiritus Partners

Susan Ramonat is Founder and CEO of Spiritus Partners, a cloud-based software company disrupting post-market surveillance and adverse event management in healthcare by combining proven enterprise-class technologies with advances in analytics and blockchain/DLT. Susan has over 25 years of experience in sales, product development, corporate development, and operational risk management in the heavily regulated financial services industry. A frequent speaker at industry conferences and universities about blockchain, IoT, and cybersecurity, she also serves on the Industrial Advisory Board of Engineering Science at Loyola University Chicago. Susan was raised in Bethlehem, PA and graduated magna cum laude from Princeton University.



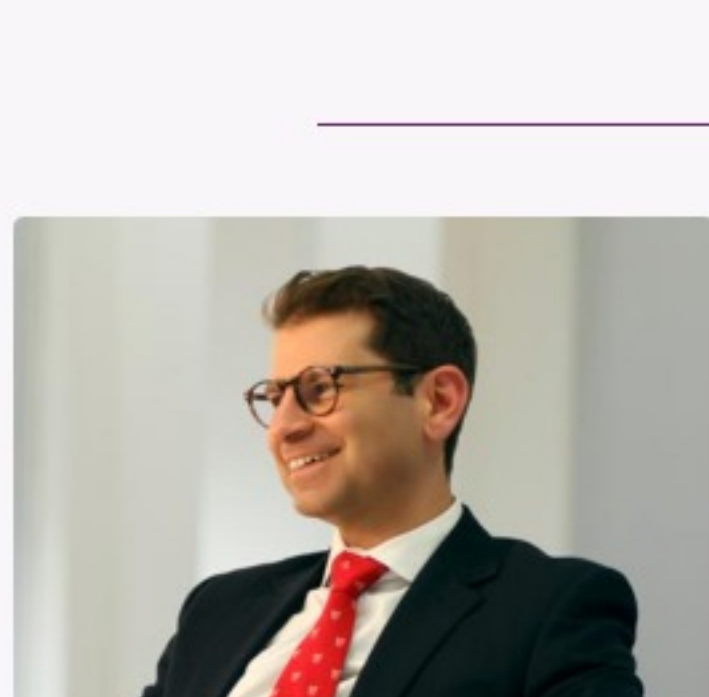
Nicolas Schmidt

CTO, Emblema

Nicolas focuses on building innovations that help patients regain control of their health data and share them transparently with research organizations. He is also co-chair of the Mobile Health Applications Working Group at the Consumer Technology Association, which creates guidelines for data privacy, security, reliability, accuracy, and interoperability in digital health.

Prior to joining Emblema, Nicolas was Head of Healthcare Products at Nokia Technologies and Withings, where he helped clinicians and researchers leverage the power of connected health devices. He also co-founded SmartConsult, a medical data analytics company assisting physicians with the longitudinal follow-up of patients with neurological disorders.

Nicolas holds a master's degree in computer science from Ecole Centrale Paris and an MBA from ESSEC Business School.

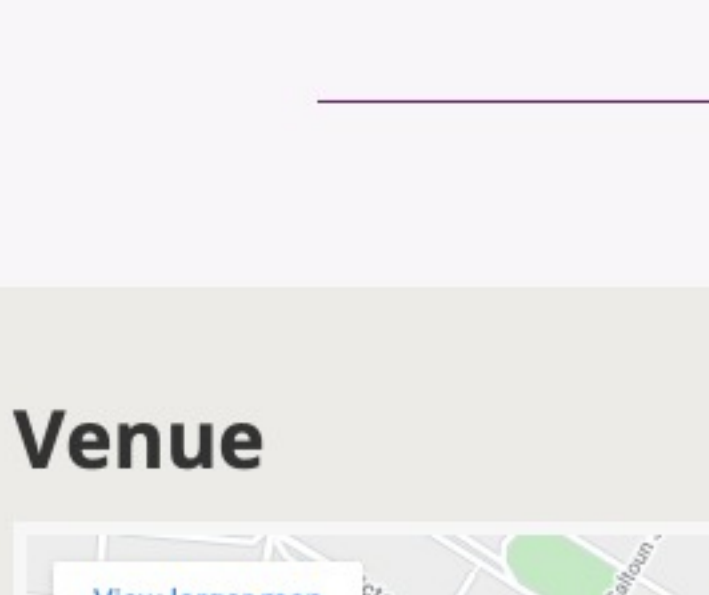


Siddhi Trivedi

Global Strategy Advisor, Lucidium

Lucidium's vision is to enhance Healthcare for people at large through improving the current research processes by using our AI-enabled, secure and intuitive platform to connect individuals & research organisations.

With a background in Pharmacology and a Master's in Business, Siddhi builds brands and market presence for startups within healthcare, education and Fin-tech. Siddhi is a Founder member of Cambridge Wireless, is an active member and advisor for the Government Blockchain Association in London. Siddhi has 30 years of healthcare and education innovation expertise gleaned within the NHS (National Health Service), Education, Consultancy and Pharmaceutical sectors. She has worked on projects and managed budgets of up to £32M in both public and private sectors. Siddhi is currently involved with a range of projects focusing on the application of AI and Blockchain to improve both health and education outcomes. A multi award winner for disruptor in technology, Siddhi shares her knowledge and invests in niche women -led startups. Her expertise lies in leadership, product development, marketing and effective project management, she builds successful partnerships and collaborations to ensure rapid market penetration of products and services for her clients globally. Siddhi is also Director and Curator of TEDxLeicester and is always looking out for interesting ideas worth sharing.



Gilbert Verdian

CEO and Founder, Quant

Gilbert is building the Internet of Trust by converging Blockchain, AI and Cybersecurity as the Founder and CEO of Quant Network, tasked with connecting the world's networks to blockchains.

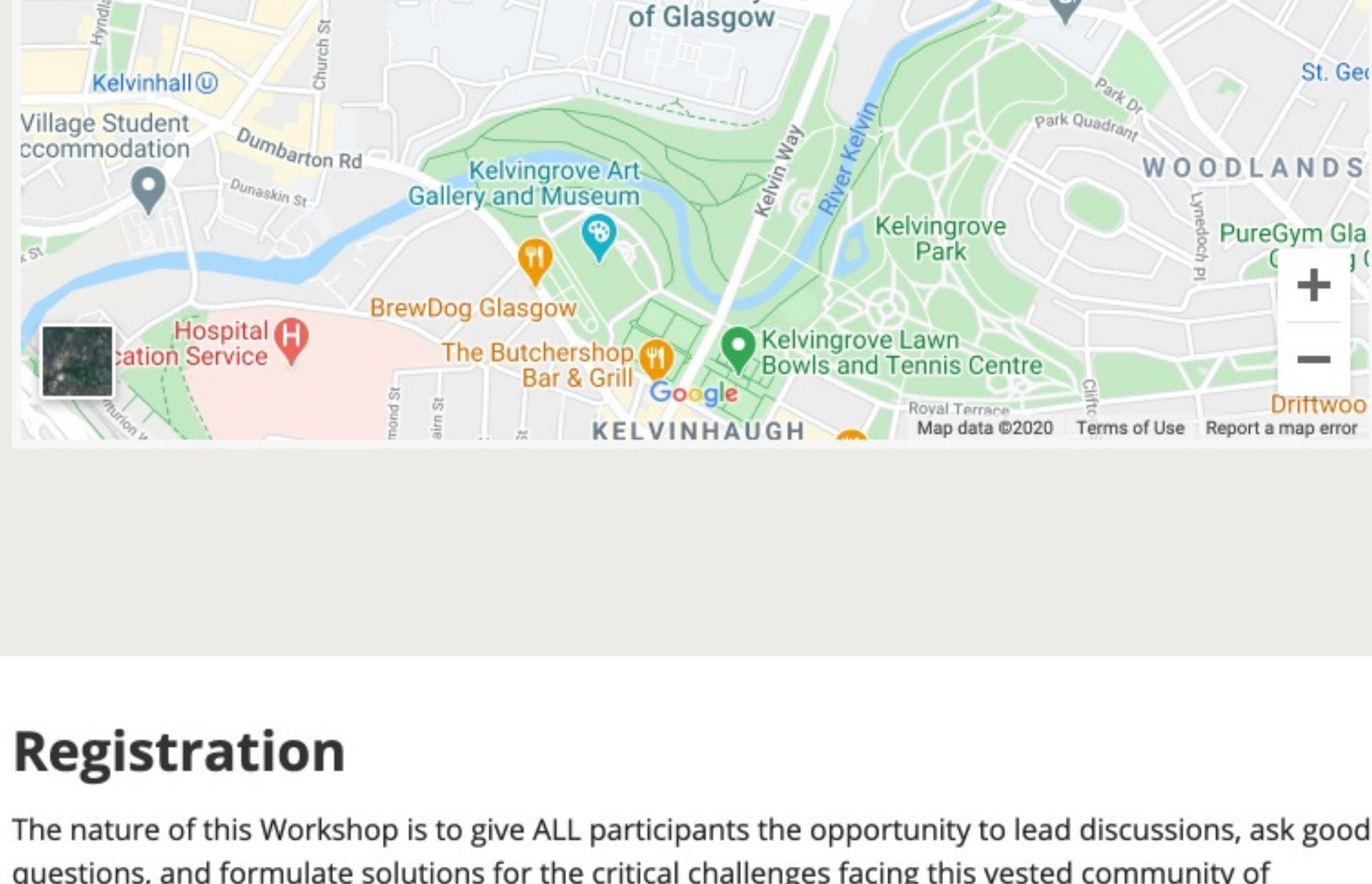
He was previously the CISO of Vocalink, the UK's faster payments provider, having moved back to London after 2.5 years as the CISO of NSW Health.

Having over 20 years of industry experience he has worked across Government in Downing St, HM Treasury, Cabinet Office, Ministry of Justice and NSW Health and private sector at CSC, EY and HSBC.

Having a keen interest in disruptive technology, he's the author behind the Blockchain ISO Standard TC307 initiative and is the Chair of the UK's national committee on Blockchain and Distributed Ledger technologies (DLT/1).

He's actively working to advance technology in the areas of AI, Cybersecurity, Blockchain, Fintech & Health.

Venue



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Registration

The nature of this Workshop is to give ALL participants the opportunity to lead discussions, ask good questions, and formulate solutions for the critical challenges facing this vested community of technologists, commercialization leads, clinicians, and regulatory leaders. Therefore, the workshop is limited to 65 attendees maximum on first-come basis.

WAMIII 1-Day Event Only	Sneak Peak Offer thru 15/09/2018	On-Time Rate 15/09/2018 - 09/11/2018	Late Comer After 09/11/2018
Primary Industry and Tech	\$250.00	\$350.00	\$450.00
Industry: IEEE MEMBER	\$175.00	\$235.00	\$295.00

ADD 2 Days of Blockchain for Clinical Trials Forum EU to Your Registration

Super 3 Day Package: Primary Industry and Tech	\$550.00	\$750.00	\$895.00
Super 3 Day Package: Industry IEEE MEMBER	\$425.00	\$625.00	\$750.00

This event has passed, see upcoming WAMIII events.

Special discount rates are reserved for government, regulatory, non-profit, and full-time university students. Please note that documents will be requested to verify your identity as one of these categories. Accredited press member registrations are limited. To obtain information on any of these opportunities, please write to m.palombini@ieee.org.

Inquiries:

If you are interested in underwriting (supporting) opportunities, please write to Helen Scott at helen.scott@ieee.org.

For speaking or general program inquiries, please write to Maria Palombini, m.palombini@ieee.org.

If you would like to be notified of event and initiative developments, [subscribe to the WAMIII Interest list](#)

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