



# TECHWORKS SUMMIT

Proceedings

# Agenda

12:00	Registration & Lunch	
13:00	Welcome & Introduction	Alan Banks (CEO, TechWorks)
13:05	Opening Address	Sir Hossein Yassaie (TechWorks Chairman of the Board)
13:20	21 Months of Challenges & Opportunities	Alan Banks (CEO, TechWorks)
13:30	Government Priorities	Lord Grimstone (Minister for Investment )
13:50	The Rise of AI in Semiconductors Design	Steve Drew (Director NMI ES), Simon Segars (CEO, Arm), Rob Green (Industry Consultant)
14:10	The Semiconductor Industry Strengths in UK	Jillian Hughes (Director NMI Manufacturing), Gerry Thurgood (NMI Chair) Laith Altimime (SEMI Europe), Malcolm Penn (Future Horizons)
14:30	Break	
14:50	Security by Design	John Moor (Director IoTsf), Nick Allot (CEO, NquiringMinds), Peter Davies (Technical Director, Thales), Dr Stephen Pattison (VP of Public Affairs at Arm and Chairman of IoTsf)
15:10	The Changing Face of the Automotive Industry	Alan Banks (CEO TechWorks), Dr Stephen Lambert (McLaren Applied & AESIN Chair)
15:30	Panel Session ‘Challenges of being a silicon start-up company’	Jim Nicholas (Uniphy), Laith Altimime (SEMI), Sean Redmond (Silicon Catalyst), Francesco Perticarari (Silicon Roundabout), Neil Dickens (IC Resources)
15:50	Closing Remarks	Alan Banks (CEO TechWorks)
16:00	Industry Summit Close	

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# Keynote Speaker

## Lord Grimstone, Minister for Investment



TechWorks is pleased to announce that Lord Grimstone will be our Keynote Speaker at this year's Industry Summit, to be held before the Annual Gala Dinner and Awards in London on 9th December.

Lord Gerry Grimstone was appointed on 18 March 2020 as the Minister for Investment jointly at the Department for International Trade (DIT) and the Department for Business, Energy and Industrial Strategy (BEIS). He also has Ministerial responsibility for the Office for Investment in 10 Downing St. He is DIT's representative for all business in the House of Lords. His Ministerial duties in BEIS also include

responsibility for certain sectors including, steel, automotive, and the professional and business services sector.

Before entering politics, Lord Gerry had an extensive business career. He is the immediate past Chairman of Barclays Bank plc and also of Standard Life Aberdeen, the UK's largest savings and investments business. He was an Independent Non-Executive Board Member of Deloitte North South Europe, a member of Deloitte's Global Independent Non-Executive Advisory Committee, and also of their UK Oversight Board. He was a Senior Adviser to Fenchurch Advisory Partners and was a member of the International Advisory Network of Natixis, the French financial services group.

He was a Senior Adviser to Blue Prism, a global leader in Robotic Process Automation. Within the UK, Lord Gerry has had a long history of serving the Ministry of Defence spanning 20 years. He sat on the Defence Board chaired by the Defence Secretary as its Lead Non-Executive. The Defence Board is the senior decision-taking body in the MoD. Lord Gerry served under 6 Defence Secretaries.

From 2012-2015, Lord Gerry served as the Chairman of TheCityUK, the representative body for the financial and professional services industry in the UK. He was a member of HM Treasury's Financial Services Trade and Investment Board.

Lord Gerry has been deeply involved in UK-China and UK-India relations. He chaired the TheCityUK CBBC China Market Advisory Group which helped coordinate financial and related professional services activity between the UK and China. He chaired Heng An Standard Life, an Insurance and Pensions company with branches in over 80 cities throughout China. In India, he sat for many years on the Board of HDFC Life, which is one of India's largest life assurance companies. He was the UK chairman of the India-UK Financial Partnership and also of the UK-India CEO Forum both of which were set up by the Indian and British Governments.

In the Gulf, Lord Gerry was the Board Adviser to the Abu Dhabi Commercial Bank. He also sat on the Board of Investcorp, a leading global provider and manager of alternative investment products headquartered in Bahrain. He chaired Aberdeen Standard Investcorp Infrastructure Partners which invests in social and core infrastructure projects in Gulf Co-operation Council countries. In Saudi Arabia, he led, for the Prime Minister and the Crown Prince, the private sector group advising the Kingdom on corporatisation and privatisation.

He was previously a senior investment banker at Schroders and ran major businesses in London, New York and Asia Pacific. He specialised in mergers and acquisitions and capital-raising for major companies worldwide. Prior to that, he was an official in HM Treasury where he was responsible for privatisation and policy towards state-owned enterprises.

Lord Grimstone of Boscobel was knighted in 2014 for public service, particularly to Defence and Business.

# Speakers



## Alan Banks, CEO of TechWorks

Alan started his career at British Telecom where he trained as a Telecommunications Electronics engineer. He joined Ford Motor

Company in 1985 where he held a number of management positions within the IT Department delivering Telecommunications and Product Development systems developing Ford products in Europe.

After completing an International Service Assignment in the United States in the early 200's he returned to Visteon in the UK where he was the European IT Manager.

He held a number of senior positions within Visteon delivering Vehicle Cockpit Electronics Programs and after 35 years completed his career at Visteon as the Engineering Director responsible for delivering cockpit electronics for Ford and Jaguar Land Rover.

Alan is a member of the Automotive Council's Intelligent Connected Vehicle Working Group and is the lead for Power Electronics at the Automotive Council.

He is passionate about growing Electronics capability in the UK and believes strongly that connected communities and collaboration are the key to exploiting successful partnerships enabling the exploration of the wealth of opportunity it brings with new and exciting emerging technology markets.

Alan was awarded the TechWorks "Lifetime Contribution to Industry" award in 2017.



## Sir Hossein Yassaie, TechWorks Chairman

Sir Hossein Yassaie is a recognised figure on the world technology stage & an entrepreneur with a deep belief in disruptive technologies/strategies.

He was founder & CEO of Imagination Technologies Plc until Q1 2016, where he created a business powering billions of devices.

He was also behind the iconic brand Pure. His work has deeply impacted many markets in 2013 Hossein was Knighted by the Queen, in recognition of his services to technology & innovation.

He now is chair/director/investor in several disruptive tech companies including Ultrahaptics, Uniphy, Mindtrace, articulate.xyz, Atmos, Pure & others. His interests include AI, next-gen UI, cloud platforms, health tech & IoT. He is passionate about helping start-ups to achieve global success & scale.



## Laith Altimime, President, SEMI Europe

Mr. Altimime has more than 30 years of international experience in the semiconductor industry. Before joining SEMI as a President of SEMI

Europe in 2015, he was senior director of business development at imec. Prior to this, Mr. Altimime held leadership positions at Altis/Infineon/Qimonda, KLA-Tencor, Communicant Semiconductor AG, and NEC Semiconductors.

He has deep experience in driving multi-cultural globally dispersed teams to achieve ambitious corporate goals in competitive and technically demanding markets.

Altimime holds a Honors Degree in applied physics and semiconductors electronics from Heriot-Watt University in Scotland.



## Dr Stephen Lambert, AESIN Chairman

Dr Stephen Lambert received his Doctorate from the University of Warwick by looking at the applicability of hybrid and electric

drivetrains in motorsport. Following this he worked at Lotus Engineering, developing hybrid and electric demonstrator vehicles for a number of OEMs. Through this role, he found himself working closely with battery manufacturers as a key partner for these projects. He has since worked in various roles around developing battery technology in areas such as Formula 1 and high performance road cars. He is now responsible for the electrification strategy for automotive customers with McLaren Applied technologies, where he is helping deliver advantage by empowering customer to introduce and protect new vehicle concepts and technologies and to drive differentiation in the market.



## Stewart Edmondson, CEO, UKESF

Stewart served for over 20 years as an Engineering Officer in the Royal Air Force, specialising in operational communications-electronics systems

prior to assuming senior positions responsible for ICT policy and training, maintenance regulations and information management. Subsequent to leaving the RAF, Stewart worked at QinetiQ before undertaking executive roles in HR Services at Xchanging and then BAE Systems, where he focused on early careers programmes for graduates and apprentices. He is a Chartered Engineer and Fellow of the Institution of Engineering and Technology.



## John Docherty, Industry Expert

John brings a wealth of leadership, business and industry experience to the role having spent over 35 years in Semiconductor Manufacturing. He

is former Senior Vice President of GLOBALFOUNDRIES, Inc. and former Senior Vice President of Manufacturing Operations at Advanced Micro Device. John has also held senior positions at Agere Systems, Chartered Semiconductor and Motorola Semiconductor.



## Nick Allott, CEO, NquiringMinds

Nick is the CEO of NquiringMinds, a company with deep experience in AI, IOT and security.

Nick was formerly the CTO of OMTP, which published over 30 mobile industry technical specifications including TR0/TR1 Trusted Execution Environment, which forms the security basis of many of PC and mobile technologies we use today. Nick is also the Director of the Webinos Foundation a secure IOT open source collaboration including W3C, Sony, Samsung, BMW, Deutsche Telekom, Telefonica and 20 other international organisations. In an independent peer review Webinos was deemed to be the most secure of 22 reviewed IOT middleware frameworks. Nick is on the part of DCMS Secure by Default Expert Group and a founding member of IOTSF.

NquiringMinds develops two products: TDX Cloud (Trusted Data Exchange) a cloud based data sharing and analytics platform and TDX Edge a highly secure edge based analytics platform. NQM has won numerous industry awards for its innovative use of AI and security technologies.

Nick has held number or executive positions in FastMobile, Motorola, Shell, and the Pearson Group. He has a PhD in Artificial Intelligence



## Peter Davies, Technical Director, Thales UK

I love what I do, approach everything with energy and enthusiasm and can always see an angle. As a Technical Director of Thales in the UK I have been

their leading expert on Cryptography in the UK responsible for providing cryptography and information security direction and expertise on a variety of products and projects. Previous work includes the development and certification of flexible and interoperable commercial security solutions that are also widely used by governments; these solutions are available worldwide and support the security of both communications and infomatics in an international, multi grade environment. My specialist knowledge is at the core of the cyber defence and forensics activities that I undertake combatting existential treats against business. I can, and have, interacted on security and products at any level from Prime Minister, through Board to deep technical including Agencies, Certification Labs and partners developing and sustaining business opportunities worldwide. I have generated patents in the area of digital DNA and my research covers aspects of technical security as well as aspects of super-identities and their role in combatting human based cyber-attacks. I have lead EU security research contract and have acted as a n expert on others. As well as contributing to standards I am a frequent speaker at international conferences and deliver lectures to postgraduate information and cyber security programmes in the UK and worldwide.



## Dr Stephen Pattison, Arm

Stephen is responsible for Arm's Public Affairs, including contributions to public policy thinking across the world. His focus is London, Brussels,

Washington and, increasingly, China. He was the first person to be appointed to a Public Affairs role at Arm, in 2012. Key issues on which he is working include Internet of Things, Smart Cities, Data Protection, Energy Efficiency, and Security. He also oversees arm's Corporate Responsibility Programme.

Prior to joining Arm, Stephen was CEO, International Chamber of Commerce UK, where he represented the interests of a range of companies and focussed on various policy and international trade issues. Before that he worked for James Dyson (Vacuum cleaners etc) as Head, International Business Development, where he introduced new products into new markets as well as accelerating growth in existing markets. He was once a British Diplomat. and worked at the British Embassy in Washington, and on UN issues in London, New York and Geneva.

Stephen has a Masters Degree from Cambridge University, and a Doctorate from Oxford. In 2003-4 he spent a year at Harvard as Fellow in International Affairs at the Weatherhead Center.



## Jillian Hughes, Network Director, NMI Manufacturing

Jillian has worked in the Semiconductor Industry serving apprenticeship at

National Semiconductor moving to Seagate Microelectronics, Motorola and Freescale . Working within the Photolithography Department.



## Gerry Thurgood, CEO, Tetreon Technologies Ltd

Gerry's career spans over 40 years in the Semiconductor sector. Starting his career in equipment design engineering for semiconductor equipment, he has an extensive knowledge within both the Wafer fab environment and the Semiconductor production equipment. His wealth of experience comes from working for Global Blue chip equipment companies across the world, including Tetreon, Tokyo Electron Japan, Silicon Valley Group, Airco Temescal and Thermco Products all involved in the design and manufacturing of semiconductor equipment for the Diffusion, Epitaxy, Metalisation and Test sectors.

During his career, Gerry held several Senior Board roles, including at Tokyo Electron where in 1993, he worked with the board in Japan, establishing the international presence for the company in both the USA and Europe, achieving globalisation of Tokyo Electron Group.

Upon the completion of his work in Japan, Gerry returned to the UK and established the Tetreon Technologies group of companies

The Tetreon group includes Thermco Systems manufacturing leading edge fully automated Diffusion furnaces for oxidation and LPCVD systems, Wet Chemical cleaning, Etching systems and High Volume Epitaxial reactor systems made by CSD epitaxy Inc.

Today, alongside his work as CEO, for Tetreon, Gerry is Chairman for QuartzTec UK and a Non-executive director of the NMI, where he works with key stakeholders TechWorks and the NMI team, driving the voice of the semiconductor Industry.



## Penny Owen, Industry Expert

Dr Penny Owen joined NPL as Commercial Director in 2017. After completing her PhD in Biochemistry at Birmingham University, Penny joined

Amersham International as a research scientist developing new drug discovery assays in collaboration with major pharmaceutical industry customers.

She took the opportunity to move to a business role and subsequently held a range of marketing roles, covering products from molecular biology and radiochemicals to sensitive detection instruments for cellular imaging.

Following the acquisition of Amersham by GE in 2005, Penny held a range of senior business leadership roles, including leading a large research consumables business unit and developing a sales and operations planning team.



## Simon Segars, CEO, ARM

Since joining Arm as one of its first employees, Simon has driven technical and business innovations to help transform the company into the leading architect of the most pervasive compute technology the world has ever seen.

Simon led the development of early ground-breaking Arm processors – the Arm7 and Arm9 – powering the world's first digital mobile phones. He played a key role in developing industry standards, and his engineering work led to him being granted several embedded-systems patents. He became Vice President of Engineering in 2001, and before being named as Arm CEO in July 2013, he held several other strategy positions including Global Head of Sales. He was personally responsible for expanding the company's U.S. business and strengthening its leadership and relationships in California's Silicon Valley, where he still lives with his family.

Simon helped steer the company through the 2016 acquisition by SoftBank, and, in June 2017, was elected to serve on the SoftBank board. He also sits on the boards of the Global Semiconductor Alliance (GSA), the Electronic Design Automation Consortium (EDAC), TechWorks and is a non-executive director at Dolby Laboratories, Inc.

Simon earned his BEng in electronic engineering from the University of Sussex and an MSc in computer science from the University of Manchester.



## Rob Green, Industry Expert

Robert has been working with TechWorks for over 5 years as an independent consultant working on transformation projects involving the growth of AESIN, developing collaboration activities in the area of Connected Autonomous Vehicles (CAV). More recently he has supported the reshaping of the NMI Embedded Systems Design activities where the emphasis has been on software collaboration as well as the opportunities in Applied AI techniques.

He has a long history in the semiconductor industry having worked in marketing video processing solutions at Philips Semiconductors, developing microcontroller markets at Atmel, managing NEC Electronics in Europe and finally as President of Renesas Electronics Europe focussing on integrated solutions for the automotive and IoT markets.



## John Moor, Managing Director, IoT Security Foundation

John Moor is co-founder and Managing Director of the IoT Security Foundation.

He has more than 30 years experience in electronic systems and microelectronics industries and holds executive leadership and general manager responsibilities for IoT Security Foundation. Previously John served as a vice-president at the National Microelectronics Institute (NMI) where he was tasked with formulating strategy and leading the implementation of key innovation initiatives including creating a portfolio of technical engineering networks, establishing the UK Electronics Skills Foundation, running the Future World Symposium and participating in overseas trade missions.

Prior to NMI, John was one of the founders of Bristol-based start-up ClearSpeed Technology (formerly PixelFusion Ltd). During this time he led engineering operations at vice-president level and was responsible for technology acquisitions, establishing international supply chain operations and acquiring capability in the UK, USA and Taiwan.

John holds an MA (Distinction) in Strategic Marketing Management from Kingston University London and a Master of Business Administration from the University of Leicester. John's formative engineering career centred on leading-edge microprocessor based systems (substantially parallel systems) and used in data communications, high performance computing, graphics and virtual reality applications.



## Francesco Perticarari, Founder, Roundabout Ventures

Francesco built Silicon Roundabout (<https://siliconroundabout.tech>) into the largest Tech meetup community in Europe, with the mission of developing tech entrepreneurship and innovation through business connections, specialist recruitment, and venture capital support.

He is the founder and Managing Partner of Silicon Roundabout Ventures (<https://siliconroundabout.ventures>), through which he invests in Next-Generation technology startups in computer and physical science in the UK. He also runs a blog on tech, startups and VC at <https://blog.francescoperticarari.com>.

Prior to Silicon Roundabout, Francesco worked as a software engineer, tech lead and CTO and, in 2013, scratched his entrepreneurial bug by founding the boutique property investment company AGAPE Properties: 1st UK property manager to accept crypto as a payment.

As a public speaker Francesco held guest lectures, panels and keynotes at London Fintech Week, London Tech Week, The London Institute of Banking & Finance, ASP (Politecnico di Milano), Birmingham Tech Week and the European GNSS Agency amongst others.



## Jim Nicholas, CEO, Uniphy Limited

Jim Nicholas is the CEO of Uniphy Limited, a company dedicated to Product Designer creative freedom to realise freeform 3D products, with touch sensing on their surface, proximity sensing about the surface, the integration of displays & intuitive HMI controllers such as dials, sliders buttons & switches, whilst doing so with a breakthrough in capital investment.

Jim is also Chairman of Codeplay a world-renowned software company "Enabling AI to be Open, Safe & Accessible to all" and a board member of Silexica a disruptive startup "Mastering software/hardware complexity at the intelligent edge". He has held a variety of executive positions. He was the CEO of MIPS Technologies, leading the transition out of Imagination Technologies into the standalone entity acquired by Tallwood Venture Capital.

Before that he was promoted to Imagination Technologies' Executive Vice President & MIPS Business Unit General Manager. Whilst responsible for MIPS, Jim defined & executed the strategy of ensuring that MIPS was considered a leading architecture addressing autonomous driving & AI, developing a strong relationship with Mobileye.

Other appointments have included being GM of STMicroelectronics' Microcontroller Division {creating the 8-bit STM8 & the world's most commercially successful & ubiquitous ARM based, 32-bit microcontroller family, the STM32}, VP of Marketing for ARM's Processor Division, VP & GM of Processors Subsystems & Productivity group for ST-Ericsson [& STMicroelectronics] and VP of Marketing for Toumaz Ltd {Healthcare & Consumer Electronics {Frontier Smart Technologies}. Jim has a track record for successfully transforming distressed businesses & ineffective R&D organizations into productive & profitable entities. He is founder/owner of AutonomyN LLC a Strategic & Operations Services Consultancy & a board member of Silexica.



## Steve Drew, Network Director, NMI Design Systems

Steve has over 30 years of semiconductor, electronics and design industry experience. Starting his career at Avnet, he became one of their youngest product managers – looking after Xilinx for the UK. Steve subsequently worked at a number of niche component distributors, promoting and selling technical component solutions ranging from video codecs, power products and FPGAs through to connectivity and display solutions. FPGA's became his thing in the 1990's and Steve worked with all the FPGA manufacturers except Altera. Moving on from component distribution Steve has worked at component kitting and PCB assembly companies, and having worked for large multinational companies and smaller privately owned businesses, has given Steve a wide view of the component marketplace and the challenges faced by companies, and having run his own manufacturing consultancy since 2020 has given him an understanding of the small business sector.

Steve loves the electronics industry and technology in general, is passionate about UK manufacturing and how we can build more here instead of losing it to offshore competition, is a champion of startups and innovation and if you want an opinion on something, just ask him.



## Malcolm Penn, Founder Future Horizons Ltd

Malcolm Penn is the founder and CEO of Future Horizons, the premier global Semiconductor industry watcher with over 260 years' experience of the industry. Founded in 1989, Future Horizons prides itself on the integrity of its work and the rigor and discipline employed in everything it does, not least of which is its commitment to accurate and usable information.

Mr Penn has over 55 years of semiconductor and electronics industry experience covering all aspects of the industry, including new business development, management, manufacturing, marketing, and design.

Prior to establishing Future Horizons, Mr Penn was Vice President and Director of European Operations for Gartner Dataquest, responsible for establishing its European research operations. Previously he was Manager of Component Engineering for ITT Europe and prior to that held various operations and marketing management positions with the worldwide ITT Semiconductor Group.

Mr Penn studied Electronics Engineering at London's Southbank University in 1962, graduating with an honours degree in 1966 during which time he worked his way through college as a professional rock and R&B musician.



## Sean Redmond Managing Partner, Silicon Catalyst

Sean Redmond has over 35 years of experience in the semiconductor and software industries. Starting his career as a chip designer, he led two market leading design teams. Firstly in digital stereo sound for television and then the first embedded mobile phone chip with VLSI technology. Sean was VP Europe for Verisity Design Inc, taking them from a standing start to over 140 customer sites throughout Europe in 5 years. He instigated and led the strategic partnership with ARM, fueling Verisity's meteoric rise and IPO of the year on Nasdaq. Following their acquisition by Cadence, Sean became VP & GM of Cadence EMEA, doubling its business in 3 years. As VP WW Sales and Marketing for ARC, he helped turn it cash flow positive, leading to the eventual sale to Synopsys. In 2010 he founded and has been the CEO of Vertizan Limited, the developer of the Vitaq AI-driven Test Automation tool suite. Sean has recently worked closely with the UK government on industrial digital strategy, co-chairing the ElecTech council and being a core member of the industrial digital leadership team. Sean has a BSc (hons) in Electronic Engineering, an MSc in EE from Kings College, London and MBA from Henley Management College.

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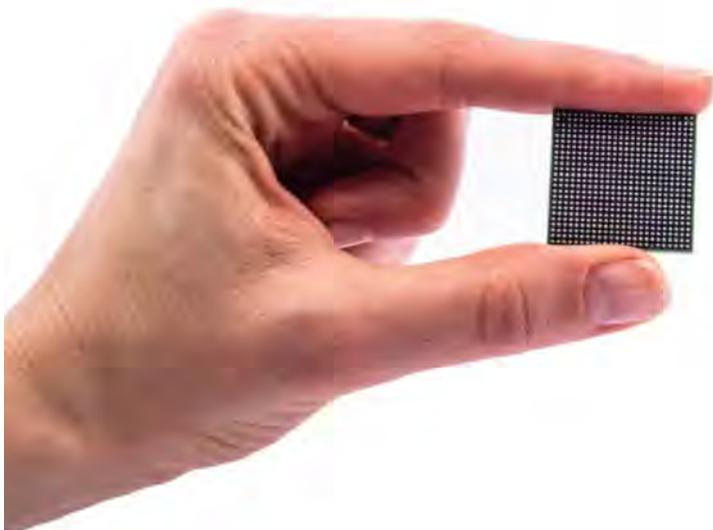
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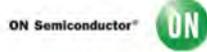
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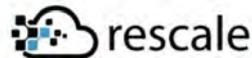
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