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Introduction

The CAS Autumn Event follows on from our Summer Showcase. We will be offering a series of inspirational keynote speakers along with a Cyber Security focus for primary and secondary teachers in this exciting programme.

Our inspirational keynote speakers for this event will be:

Anne Marie Imafidon
Tech is a booming industry with increasing importance in any economy, but it is also suffering from a large skill shortage at a time when a low proportion of women are entering and staying in the field.

Rupert Ward
Fitness personality, Joe Wicks has helped people stay physically fit during lockdown, but how do we stay learning fit? Rupert will explain how, through developing effective learning habits, we can improve our learning fitness.

Mark Martin
London offers huge opportunities in the digital sector, but are we adequately preparing young people to enter it? Mark Martin MBE (aka @urban_teacher) will explore the opportunities for students within the tech industry.

Maggie Philbin
Engaging students who may not realise their own potential to succeed is one of the most satisfying parts of teaching. Maggie will talk about how her organisation TeenTech has successfully brought the world of technology to life for young people from 8-19.
5.00 - 5.45pm
Keynote - The Tech Landscape and Why Tech Needs Diversity

Summary:
Tech is a booming industry with increasing importance in any economy, but it is also suffering from a large skill shortage at a time when a low proportion of women are entering and staying in the field.

Anne-Marie will dissect the HERstory of the tech industry of the past and present, and discuss what we can do to cultivate future tech leaders.

Bio:
From child prodigy to MBE, Dr Anne-Marie Imafidon is a keynote speaker, presenter and co-founder of Stemettes, the award-winning social enterprise inspiring the next generation of females into Science, Technology, Engineering, and Mathematics (STEM) roles. Being the youngest girl ever to pass A-level Computing, and going on to be one of the youngest ever to be awarded a Master’s degree in Mathematics & Computer Science by the University of Oxford, aged 20, Anne-Marie, unsurprisingly, continued to soar. In recognition of her influence and achievements, Anne-Marie was awarded an MBE in the 2017 New Year’s Honours for services to young women and STEM sectors. In June 2017, she became an Honorary Fellow at Keble College, Oxford and in 2019, she was voted the 2nd most influential woman in tech in the UK by Computer Weekly.

Key Stage:
All (Inspirational Piece)
Wednesday 11 November
4.00 - 5.30pm - Primary Cyber Focus

Our Cyber Focus sessions will focus on how to keep younger children safe online. You will hear from a variety of expert speakers on our panel, who will be providing a 360-degree view of how to navigate the digital landscape safely. Below you can view information about the different presenters.

**Bio:**
Rosie Cole is a CEOP Education Officer at the National Crime Agency (NCA) and leads on the development of educational content for early years and primary-aged children. The NCA is committed to protecting the public from serious and organised crime, and CEOP’s role is to tackle the sexual abuse and exploitation of children both online and offline.

Rosie Cole
@CEOPUK

**Bio:**
Megan is Head of Partnerships at Parent Zone - the experts in Digital Family Life - and heads up the Be Internet Legends project, run in partnership with Google UK. An ex-primary school teacher, Megan also co-trains the teacher training sessions as part of the programme and loves to hear how the lesson plans and activities have been used in the classroom.

Megan Rose
@theparentszone
Bio:
Jon is the CAS Community Outreach Manager for the North West, an author of the Barefoot resources and a teacher at Crumpsall Lane Primary School. Jon leads the Primary Computing PGCE at The University of Manchester and promotes engineering education in schools through SEERIH.

Dr Jon Chippindall
@drchips_
@barefootComp

Bio:
Ian Rockey is Headteacher of Westwood with Ilford Primary School and regularly teaches across the primary age range, using technology to enhance learning. He has used GoBubble as a cross curricular tool to develop children’s digital citizenship and understanding of online safety.

Ian Rockey
@IanRockey

Bio:
Henry's drive for making the internet safer for kids has taken him from being a Police Sergeant, to creating the multi-award winning eCadet education program (that has benefitted 1 million children since its launch) and onto creating GoBubble, a safer, healthier and kinder digital community for under 13s. More than 1600 schools in 39 countries are registered for GoBubble. School leaders and parents have seen a dramatic increase in children's positive mental health from using GoBubble, as well as stopping them from using mainstream platforms like SnapChat, Instagram and TikTok. All content in GoBubble is automatically checked before it appears, saving teacher time and creating a safer kid-centered environment with wellbeing as the core.

Henry Platten
@joinbubble
DC Dawn Wood

Bio:
Dawn Wood has spent the last 21 years tackling the diverse crimes that are committed on our London streets as a Police Officer within the Metropolitan Police Service. Her career involved investigating cases ranging from domestic violence, large scale public order and serious sexual assault, before moving on to conducting proactive surveillance of armed criminal networks as a member of the Flying Squad. Using her experience from this world of investigative policing, Dawn now works proactively to protect Londoners from Fraud and Cyber Crime and more recently, joined Cyber Choices, a national programme led by the NCA designed to reduce cyber crime.

Sway Grantham

Bio:
Sway Grantham is Senior Learning Manager for the primary team working on the National Centre of Computing Education content including the Teach Computing Curriculum and Online Courses. Previously she worked as a teacher for 10 years, four of which were as a specialist Computing teacher, whilst also working as a Digital Technology Consultant to support teachers and schools to use technology effectively.
Thursday 12 November

4.00 - 4.45pm  
**Keynote - Connecting Students to Tech Sector**

**Summary:**  
London offers huge opportunities in the digital sector, but are we adequately preparing young people to enter it? Mark Martin MBE (aka @urban_teacher) will explore the opportunities for students within the tech industry. Participants will hear about the digital sector, and look at curriculum design and the importance of careers education.

**Bio:**  
Mark Martin aka @Urban_Teacher is an Advanced Skills Teacher in Education and Computer Science. Mark is a thought leader in #EdTech and a hugely popular speaker, sharing his expertise and insights to educators around the world. He is a teacher/advisor for the major global tech brands and continues to advocate for home-grown talent, digital skills and education equity. In February 2019, he was awarded the London Business Award for Paying It Forward. A few months later, he was awarded an MBE for services to education, technology and diversity in UK technology.

**Key Stage:**  
All (Inspirational Piece)
Week 2

Tuesday 17 November

4.00 - 4.45pm
Keynote - Learning Fitness: Learning how to learn

Summary:
Fitness personality, Joe Wicks has helped people stay physically fit during lockdown, but how do we stay learning fit? Rupert will explain how, through developing effective learning habits, we can improve our learning fitness. This is particularly important as the role of online learning changes within society, requiring us to develop a better understanding of how we learn.

Bio:
Rupert Ward is a former Project Lead for iDEA, one of the world’s most successful free educational technologies. He is a National Teaching Fellow and a Professor of Learning Innovation at the University of Huddersfield. He is a member of the BCS Accreditation Committee and a former board member of the Council for Professors and Heads of Computing.

Key Stage:
2 - 4
Our Secondary Cyber Focus session will focus on how to keep your students safe online. You will hear from a variety of expert speakers on our panel, who will be providing a 360-degree view of how to navigate the digital landscape safely. Below you can view information about the different presenters.

**Steven Furnell**  
@smfurnell

**Bio:**  
Steven Furnell is a Professor of cyber security at the University of Nottingham. He is also an Adjunct Professor with Edith Cowan University in Western Australia and an Honorary Professor with Nelson Mandela University in South Africa. His research interests include usability of security and privacy, security management and culture, and technologies for user authentication and intrusion detection. He has authored over 330 papers in refereed international journals and conference proceedings, as well as books including Cybercrime: Vandalizing the Information Society and Computer Insecurity: Risking the System. Prof. Furnell is the current Chair of Technical Committee 11 (security and privacy) within the International Federation for Information Processing, and a member of related working groups on security management, security education, and human aspects of security. He is also a board member of the Chartered Institute of Information Security and chairs the academic partnership committee.

**DC Dawn Wood**

**Bio:**
Dawn Wood has spent the last 21 years tackling the diverse crimes that are committed on our London streets as a Police Officer within the Metropolitan Police Service. Her career involved investigating cases ranging from domestic violence, large scale public order and serious sexual assault, before moving on to conducting proactive surveillance of armed criminal networks as a member of the Flying Squad. Using her experience from this world of investigative policing, Dawn now works to proactively protect Londoners from Fraud and Cyber Crime and more recently joined Cyber Choices, a national programme led by the (NCA) National Crime Agency designed to reduce cyber crime.
Sophia McCall
@spookphia

Bio:
Sophia has recently graduated from Bournemouth University, completing an undergraduate degree and achieving First Class Honours in BSc Cyber Security Management. Over the last four years, she has achieved a wealth of awards and has been greatly involved in the security community – including captaining Team UK in the European Cyber Security Challenge last year in Bucharest and appearing on TV as a Cyber Hunter on the Channel 4 series, Hunted. Most recently she was awarded “Cybersecurity Student of the Year” in the SC Awards Europe 2020, and has now commenced her first role in industry as a Junior Security Consultant in the technical field of penetration testing.

Celine Williams
@CelineMEWills

Bio:
Celine started as a Degree Apprentice at IBM in 2018. Since then she has worked her way up from being a SOC Analyst to becoming a Security Operations Manager, having worked across multiple industries and sectors. She is also the Chair of IBMs Early Professional Technical Community.

Emily Nicholass
@SafeToNet

Bio:
Emily Nicholass is Head of Cyber Psychology at SafeToNet. SafeToNet is a cyber safety company focused on safeguarding children from bullying, grooming and abuse online, and enhancing child digital wellbeing.

Emily studied BA Sociology and Criminology at Kent University, and subsequently completed her MA in Criminology. Her research interests lie in the realm of Cultural Criminology with a specific focus on the ways in which human interactivity, relationship development and the sense of identity have evolved in the age of social media.

At SafeToNet, the Cyberpsychology team work closely with data scientists and data engineers in the fields of Natural Language Processing and Behaviour Analytics.
Bio:
Having spent 14 years as a secondary computing teacher, Ben joined Raspberry Pi as a Learning Manager in April 2019. Since joining Raspberry Pi, his main focus has been to write units of work for the new Teach Computing Curriculum. His work includes units on Cybersecurity, Data Science, Programming and Digital Literacy. As well as writing units of work, he also writes and facilitates online courses and researches the latest computing pedagogy. More recently Ben has filmed units of work to be delivered over Oak Academy to help support students and teachers through the current global pandemic. Ben also is a CAS Community of Practice leader in Durham and outside of work enjoys spending time with his young family.

Bio:
Simon Roberts is a secondary subject specialist at the National Centre for Computing Education, working on face-to-face teacher training. Prior to undertaking this role, he led multiple computing departments in secondary schools in Leeds and led a teacher training SCITT provision for computing teachers.
Thursday 19 November

4.00 - 4.45pm
Keynote - Learning in a Real World Context

Summary:
Engaging students who may not realise their own potential to succeed is one of the most satisfying parts of teaching. Maggie will talk about how her organisation, TeenTech, has successfully brought the world of technology to life for young people aged from 8-19. She’ll share case studies, how they have identified what works well and what she feels is needed for 21st century learning. With over 60% female participation, TeenTech has been successful in identifying, supporting and celebrating diverse young talent and, in the words of one teacher, ‘reminding me of why I became a teacher in the first place’.

Bio:
Maggie Philbin has worked in radio and television for over 30 years on a wide range of science, medical and technology programmes, from Tomorrow’s World to Bang Goes The Theory. In 2008 she co-founded TeenTech, an award-winning organisation which works across the UK getting young people innovating, creating, building skills and preparing for a bright future. TeenTech helps students and their parents and teachers understand the real opportunities in contemporary industry.

In June 2016 she was voted most influential woman in UK IT by Computer Weekly and also named 2016 Digital Leader of the Year. She was awarded an OBE in Jan 2017 for her work to promote careers in STEM and the Creative Industries. In July 2017 she received the Tech4Good Special Award.

She is patron of the Council for Professors and Heads of Computing and has been awarded nine honorary degrees and fellowships for her work.

Key Stage:
2, 3 & 4