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BIR ANNUAL CONGRESS 2021

4–5 November 2021 Virtual event



CPD: Up to 18 credits

BIR Annual Congress 2021

The BIR Annual Congress continues to grow. After being sold-out consecutively in 2018 and 2019, and a phenomenal registration in 2020, we are back this year with six exciting streams and seven topics that offers a comprehensive programme on the latest innovations in imaging and treatment to medical imaging professionals.

Taking place over two days, the virtual event provides excellent opportunities to engage and interact with attendees, speakers and industry representatives in an open and relaxed format.

Schedule of events

Day 1

09:15 Welcome speech by the BIR President 09:30 Lectures begin 17:30 Close of day

Day 2

09:30 Lectures begin 17:00 Close of event

Who should attend?

This multidisciplinary event will appeal to anyone within radiology, radiation oncology and the underlying sciences, including radiologists, physicists, radiology managers, radiographers, oncologists, clinical scientists, physicians, heads of department, decision makers, radiation protection advisers and supervisors.

Five reasons to attend

- 1. Enhance your knowledge
- 2. Hear from experts in the field
- 3. Network with colleagues and peers
- 4. ePoster and clips exhibition
- 5. Meet industry representatives

Working across boundaries for excellence

CPD credits

The Congress is worth up to 18 CPD credits. Watch any talks you miss on-demand available online after the event.

ePostersand clips

We once again see the return of electronic posters and clips but in an online format, which can be viewed anytime from a computer, laptop or mobile device.



Headline sessions

The BIR Sir Godfrey Hounsfield lecture and awards

Professor Vicky Goh Professor of Clinical Cancer Imaging King's College London Thursday 4 November 14:00

The BIR/Canon Memorial lecture

Professor Clive Kay Chief Executive King's College Hospital NHS Foundation Trust Friday 5 November 14:00





THE BIR ANNUAL CONGRESS 2021 WELCOMES ITS INDUSTRY PARTNERS

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Advanced Accelerator Applications, S.A. (AAA), a Novartis company, is an innovative medicines company developing targeted radioligand therapies and precision imaging radioligands for oncology. We are committed to transforming patients' lives by leading innovation in nuclear medicine. AAA currently has over 1,000 employees working across 31 sites in 12 countries (Canada, France, Germany, Israel, Italy, the Netherlands, Poland, Portugal, Spain, Switzerland, the UK and the US). The company also has global manufacturing capabilities with 19 facilities in eight countries, and six research & development sites. For more information, please visit: https://www.adacap.com/



Bayer's Radiology business is well placed to be the partner of choice in helping NHS trusts to address the many challenges faced today including the increasing need for governance to demonstrate best practice and improving patient care within increasing financial constraints. With market-leading contrast media and power injector systems, Bayer is able to offer innovative patient care and with the addition of its informatics platform, it can support radiology departments in driving protocol standardisation and easily accessible audit data that enable departments to meet further challenges faced around contrast and radiation dose management. 0118 2063999 www. radiology.bayer.co.uk



GE Healthcare is a leading provider of medical imaging, monitoring, and life science technologies. GE Healthcare enables precision health in diagnostics, therapeutics and monitoring through intelligent devices, data analytics, applications and services to help providers, researchers and life sciences companies in their mission to improve outcomes for patients around the world.



At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, and improving patient experience, all enabled by digitalising healthcare. An estimated 5 million patients globally everyday benefit from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics and molecular medicine, as well as digital health and enterprise services. We are a leading medical technology company with over 170 years of experience and 18,000 patents globally. With more than 48,000 dedicated colleagues in 75 countries, we will continue to innovate and shape the future of healthcare. For more information and latest product line, please

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Enabling better health and better care at lower cost Philips is a leading health technology company focused on improving people's lives across the health continuum - from healthy living and prevention, to diagnosis, treatment and home care. Applying advanced technologies and deep clinical and consumer insights, Philips delivers integrated solutions that improve people's health and enable better outcomes. Partnering with its customers, Philips seeks to transform how healthcare is delivered and experienced. The company is a leader in diagnostic imaging, image-guided therapy, patient monitoring and health informatics, as well as in consumer health and home care. www.philips.co.uk/healthcare

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Aidence rallies the brightest minds in deep learning and radiology to create Veye Chest, an AI-based assistant for lung nodules on chest CT. Cutting through the hype around AI, we bring applications that add value for radiologists. Veye Chest is currently running in Lung Health Checks pilot sites and in routine practice across the UK.



annalise.ai fuses the highest quality imaging data with the very best in computer science to produce comprehensive AI clinical decision support solutions. The company's first solution is Annalise CXR, the world's most comprehensive AI clinical decision support chest X-ray solution on the market.

Assisting clinicians to interpret radiological imaging studies, Annalise CXR detects 124 findings, empowering clinicians to make accurate, faster decisions.

Our patient-first approach is proudly clinician-led and comes from a deep understanding of the challenges faced in medical imaging. AI provides clinicians with a second set of eyes, allowing them to detect with confidence and drive better health outcomes for all patients.

https://annalise.ai/



BD is a global medical technology company that is advancing the world of health by improving medical discovery, diagnostics and the delivery of care. BD leads in patient and health care worker safety and the technologies that enable medical research and clinical laboratories. The company provides innovative solutions that help advance medical research and genomics, enhance the diagnosis of infectious disease and cancer, improve medication management, promote infection prevention, equip surgical and interventional procedures and support the management of diabetes.

BD Interventional – Peripheral Intervention focuses on being at the forefront of developing innovative medical devices that solve the challenges of healthcare professionals and improving the quality of patients' lives. We are committed to pursuing technological innovations that offer superior clinical benefits while helping to reduce overall health care costs.

neodynamics

NeoDynamics AB (publ) is a Swedish Medical Technology Company dedicated to improving diagnostics and care to optimize the outcome of individualized treatment in cancer. Our innovative pulse biopsy system, NeoNavia[®] is designed to offer clinicians and patients accurate lesion targeting and high tissue yield for correct diagnosis.

We focus on minimally invasive cancer diagnostic methods.

Our innovative precision biopsy system, NeoNavia[®] is built on a patented pulse technology, based on research at the Karolinska Institutet in Sweden. The technology enables a more precise way to target lesions and secure high-quality tissue samples in both breast and axilla with flexibility for all types of Ultrasound Guided (USG) biopsies. The NeoNavia system ensures optimal needle control, with maximum tissue yield for any lesion type, size or location.



Resonance Health is an Australian healthcare company specialising in the development and delivery of non-invasive medical imaging software and services. Our products are used by clinicians in the diagnosis and management of human diseases and by pharmaceutical companies in their clinical trials. Resonance Health has gained endorsement by leading physicians worldwide for consistently providing high quality quantitative measurements essential in the management of particular diseases.

TERAIRECON

TeraRecon is a leader in advanced visualization and artificial intelligence solutions. Our flagship product, Intuition, is the market share leader for radiology and cardiology advanced visualization. Our AI division was awarded the best new radiology vendor for 2018 as well as nominated for best new software in 2019. Further, we were recently named the 2020 & 2021 KLAS Category Leader for Advanced Visualization. We are committed to redefining advanced visualization by leveraging machine learning and improving radiology workflows through personalized automation that increases efficiency.

An Attractive Non-Surgical AV Fistula Creation Option

The WavelinQ[™] EndoAVF System uses two thin, flexible, magnetic catheters and a burst of RF energy to create an AV fistula without open surgery. This non-surgical approach helps to reduce surgical scarring and can minimize arm disfigurement often associated with traditional AV fistula surgery.

WavelinQ[™] EndoAVF System

The WavelinQ™ EndoAVF System should not be used in patients who have known central venous stenosis or upper extremity venous occlusion on the same side as the planned AVF creation, who have a known allergy or reaction to any drugs, or who have known adverse reactions to moderate sedation and/or anesthesia.

The WavelinQ[™] EndoAVF System is intended for the cutting and coagulation of blood vessel tissue in the peripheral vasculature for the creation of an arteriovenous fistula used for hemodialysis.

Please consult product labels and instructions for use for indications, contraindications, hazards, warnings and precautions. crbard.com/peripheral-vascular | bd.com WavelinQSupportEMEA@bd.com

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Thursday 4 November

STREA	M A: MUSCULOSKELETAL WITH TRAUMA (AM)
	CHALLENGING CASES (PM)
09:15	President's welcome and introduction
	Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust
Chair: Drs	Marcela de la Hoz Polo and Kannan Rajesparan
09:30	Don't be traumatised by these injuries – commonly missed musculoskeletal injuries in trauma
	Dr Ramy Mansour, Consultant Radiologist, Oxford University Hospitals NHS Trust
10:00	The soft approach to trauma – imaging soft tissues in trauma
	Dr Dimitri Amiras, Consultant Musculoskeletal Radiologist, Imperial College Healthcare NHS Trust
10:30	Little people, many injuries – common paediatric musculoskeletal injuries
	Dr Rob Hawkes, Consultant Paediatric Radiologist, Royal Manchester Children's Hospital
11:00	Break
11:30	Watch your back! – an approach to spinal imaging in trauma
	Professor Elizabeth Dick, Consultant Radiologist and Honorary Senior Lecturer, Imperial College NHS Healthcare
	Trust
12:00	Dual energy for high energy – dual energy CT in trauma
	Dr Krystal Archer-Arroyo, Assistant Professor, Emory University School of Medicine
12:30	Acute non-traumatic musculoskeletal presentations to the emergency department
	Dr Emma Rowbotham, Consultant Radiologist, Leeds Teaching Hospitals NHS Trust
13:00	Lunch
13:15	Lunchtime symposium: 'Supporting patients and clinicians in radiology'
	Dr Ounali Jaffer, Royal London Hospital; Dr Ralph Jackson, Newcastle Hospitals NHS Foundation Trust; 😵 BD
	Dr Stephen Cooper, NHS Ayrshire and Arran; and Professor Hans-Ulrich Laasch, Minnova UK
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13:45	Lunch
14.00	The Cir Codfees Housefield evend and last use (DET MDs into pratice the best of both modelities for early and
14:00	The Sir Godfrey Hounstield award and lecture: "PET-IVIR: Integrating the best of both modalities for cancer care
	Professor Vicky Goh, Professor of Clinical Cancer Imaging, King's College London
15.15	Brook
13.13	Dieak
15:45	Case 1 and Q&A with Dr Ramy Mansour
16:00	Case 2 and Q&A with Dr Dimitri Amiras
16:15	Case 3 and O&A with Dr Rob Hawkes
16:30	Case 4 and Q&A with Professor Elizabeth Dick
16:45	Case 5 and Q&A with Dr Krystal Archer-Arroyo
17:00	Case 6 and Q&A with Dr Emma Rowbothan
17:15	Close of day

Top 10 Considerations for Selecting an Advanced Visualization Provider

If there's an advanced visualization project on your horizon, there are some must-haves and non-negotiables you should put on your checklist. Selecting your viewing partner according to how they rank on the following items will ensure a great fit for your organization. Consider how you might achieve more by consolidating AV and AI into a single, powerful, subscription-based platform.

TERAIRECON

Server-based solutions

Is the solution a stand-alone workstation or is it server-based? If it is server-based, is it a true thin client or web client that allows you to access your data from anywhere with minimum hardware footprint?

Enterprise solutions

Does the solution meet the visualization needs of more than one department? Of many? Could you eliminate redundant, departmental viewers and replace them with this one potential solution?

AI-Driven Workflows

Does the solution offer Al-driven pre-processing and workflow automation? Is Al an included feature and not sold separately?

Ease of Use

Is the user interface intuitive across various specialties and viewing devices - desktop / laptop / mobile / etc.?

Workflow

Does the solution offer sophisticated workflow for physicians or technologists by preparing scenes and viewing protocols for further review?

Multi-specialty Toolkit

Is the toolset expansive enough to meet the needs of multiple specialties across the organization?

Personalization / Customization

Do physicians have the ability to set up reusable user-specific or user-group-specific views, workflows, and presentation states?

Scalability

Can the solution be rolled out department-by-department? Can it accommodate a few very advanced users in a few departments, then scale to thousands of various user types enterprise-wide? Is the solution specific to a brand of scanner or can it work with any vendor?

PACS and VNA integration

Does the vendor have integrations across a variety of PACS and VNA vendors? Is the solution aligned to or owned by one particular vendor? Do they specialize in enterprise viewing or do they also offer storage or worklist components, really making them a PACS?

Dictation and Worklist integration

Is the system able to integrate with dictation and worklist systems?

Subscription offering

Does the provider offer flexible subscription-based pricing with no need for capital budget cycles or vendor-lock?

TERAIRECON

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Thursday 4 November

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STREA	M B: ARTIFICIAL INTELLIGENCE
09:15	President's welcome and introduction
	Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust
Chair: Dr	Amrita Kumar
09:30	Current landscape of AI in healthcare across NHS – who are all the stakeholders involved
	Eleonora Harwich, Head of Collaborations, AI Lab – NHSX
10:00	Title to be confirmed
	Mr Chad McClennan, Chief Executive Officer, Koios Medical
10:30	Update on post-Brexit regulation for healthcare specialists
	Dr Hugh Harvey, Managing Director, Hardian Health
11:00	Title to be confirmed
	Aidence
11:15	Break
11:30	Implementing AI into clinical practice – a national collaboration
	Dr Kiruba Nagaratnam, Consultant Stroke Physician and Geriatrician and Clinical Lead for Stroke Medicine, Royal
	Berkshire NHS Foundation Trust
12:00	Panel discussion: Implementing AI within the NHS – challenges and learnings
	Drs Amrita Kumar, Kiruba Nagaratnam and Claire Bloomfield
13:00	Lunch
13:15	Lunchtime symposium: 'Supporting patients and clinicians in radiology'
	Dr Qunali Jaffer, Royal London Hospital: Dr Ralph Jackson, Newcastle Hospitals NHS Foundation Trust:
	Dr Stanban Cooper, NHS Aurchire and Arran: and Professor Hans Ulrich Laasch, Minnova UK
	Di Stephen Cooper, Nils Ayishire and Arran, and Professor Hans-Orich Laasch, Minnova OK
13:45	Lunch
14:00	The Sir Godfrey Hounsfield award and lecture: 'PET-MR: Integrating the best of both modalities for cancer care'
	Professor Vicky Goh, Professor of Clinical Cancer Imaging, King's College London
15:15	Break
15:30	From code to clinician – putting comprehensive AI into practice
	Dr Catherine Jones, Thoracic Radiologist and Chest Lead, annalise.ai
15:45	Path to procurement and evaluation of AI in the NHS
	Mr Dominic Cushnan, Head of Imaging, NHSX
16:20	Developing commercial value framework for the NHS
	Drs Claire Bloomfield, Deputy Director for Value of Data; and Kelly Lin, Deputy Director for Commercial Delivery,
	NHSX
17.00	Close of day



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SIREA	AMIC: THERAPEUTIC ONCOLOGY
09:15	President's welcome and introduction
	Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust
Chair: D	rs Nicola Blacker, Gopi Gnanasegaran and Ms Amanda Webster
09:30	Practice of radical thoracic re-irradiation for non-small cell lung cancer
	Dr Rob Rulach, Clinical Research Fellow, The Beatson West of Scotland Cancer Centre and University of Glasgow
09:50	Radiomics and AI in nuclear medicine
	Professor Gary Cook, Professor of PET Imaging, King's College London
10:10	Motion control in liver and pancreas radiotherapy
	Dr Luis Aznar-García, Consultant Clinical Oncologist, Nottingham University Hospitals NHS Foundation Trust
10:30	Abdominal compression or gating in liver SBRT – a radiographers perspective
	Ms Lynsey Barwell, Therapeutic Radiographer, Nottingham University Hospitals NHS Foundation Trust
11:00	Break
11:30	The impact of radiotherapy late effects on patients
	Ms Lisa Durrant Macmillan, Consultant Radiographer Radiation Late Effects Service, Beacon Radiotherapy Centre,
12.00	Taunton
12:00	Adaptive radiotherapy – implementing plan of the day
	Ms Amanda Webster, Therapeutic Radiographer, University College London Hospitals NHS Foundation Trust
12:30	Adaptive planning using CBCT – introduction and workflow physics and radiographers
	Mrs Rachel Hollingdale, Radiotherapy Physicist, Royal Surrey County Hospital NHS Foundation Trust; and Selina
	Reinlo, Royal Surrey County Hospital NHS Foundation Trust
12.00	
13:00	Lunch
13.15	Lunchtime symposium: 'Supporting patients and clinicians in radiology'
	Dr Ounali Jaffer, Royal London Hospital: Dr Ralph Jackson, Newcastle Hospitals NHS Foundation Trust:
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1 1.00	Professor Vicky Goh. Professor of Clinical Cancer Imaging, King's College London
	Professor vicky don, Professor of Chinical Cancer maging, king s college London
15:15	Break
15:30	Title to be confirmed Philips
15:45	Comparative breast planning study – forward planned IMRT – f-IMRT 'vs' VMAT breast solutions
	Mr Simon Coughlan, Principal Dosimetrist, Royal Devon and Exeter NHS Foundation Trust
16:05	Molecular imaging in assessing treatment response – current role and challenges
10.05	Dr Teresa Szyszko, Consultant in Nuclear Medicine, Royal Free London NHS Foundation Trust
16:25	Immunotherapies and radiotherapy – the abscopal effect
40.15	Dr Toby Talbot, Consultant Clinical Oncologist, Royal Cornwall Hospitals NHS Trust
16:45	The introduction and clinical experiences of tattooless radiotherapy treatments
	Ms Deirdre Dobson, Therapeutic Radiographer, Guy's and St Thomas' Hospital NHS Trust

17:15 Close of day

Friday 5 November

STREAM A: MANAGEMENT AND WELLBEING (AM)

RADIATION ISSUES FOR THE FRONTLINE STAFF (PM)

Session: Management and wellbeing

Chair: Dr Teik Choon See

09:30	Implementing a successful imaging network
	Mr Andy Howlett, Director of Diagnostics, Medicines and Pharmacy Improvement, NHS England and Improvement
10:00	Value-based imaging
	Dr Adrian Brady, Consultant Radiologist, Mercy University Hospital and University College, Cork, Ireland; and First
	Vice President, European Society of Radiology
10:30	Maximising your impact in online communication
	Ms Cath Baxter, Voice Coach, Voice for Business
11:00	Reflections on resilience – the 'what, when and how?' of staying well
	Dr Susannah Hunt, Professional Wellbeing and Clinician Support, Cambridge University Hospitals NHS Foundation
	Trust

11:30 Break

Session: Using team working and networks for optimisation

Chair: Mr Andy Rogers

12:00	CT protocol optimisation across multiple organisations; the Scottish Experience
	Mark Worrall, Ninewells Hospital, Dundee
12:25	Team working for successful procurement – specification and evaluation
	Mr Andy Rogers, Lead Interventional Medical Physics Expert, Nottingham University Hospitals NHS Trust
12:50	Panel discussion
	Mark Worrall and Andy Rogers

13:10 Lunch

14:00	The Canon Mayneord lecture: 'Integrated Care – reasons to be cheerful and reasons to be watchful'
	Professor Clive Kay, Chief Executive, King's College Hospitals NHS Foundation Trust

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Session: Innovations in equipment performance evaluation

Chair: Mr Andy Rogers	
15:30	QC Lite – The Netherlands' approach
	Arjen van Hulzen
16:00	Innovative local quality control for radiographers – easy does it!
	Jonathan Cole, Principal Physicist, Royal Free London NHS Foundation Trust
16:30	Image quality assessment – the computer way is 'Human'
	Nick Marshall, Medical Physicist, UZ Leuven, Belgium

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Friday 5 November

STREAM B: INCIDENTALOMAS AND INCIDENTAL FINDINGS (AM) CHALLENGING CASES (PM)

SessionL Incidentalomas and incidental findings

Chair: Professor Stuart Taylor

09:30	Cystic pancreatic Lesions
	Dr Raneem Albazaz, Consultant Radiologist, Leeds Teaching Hospitals NHS Trust
10:00	Imaging of the adrenals
	Dr Dylan Lewis, Consultant Radiologist, King's College London
10:30	Adnexal cysts and masses
	Dr Sue Freeman, Consultant Radiologist, Addenbrooke's Hospital

11:00 Break

11:30	Incidental bone lesions
	Dr Ian Pressney, Consultant Radiologist, Royal National Orthopaedic Hospital
12:00	Thyroid nodules
	Dr Simon Morley, Consultant Radiologist, University College London Hospitals NHS Foundation Trust
12:30	Unexpected intracranial findings (vestibular schwannoma, pineal cyst, pituitary, aneuryms)
	Dr Harpreet Hyare, Honorary Clinical Associate Professor in Neuroradiology, University College London

13:00	Lunch
14:00	The Canon Mayneord lecture: 'Integrated Care – reasons to be cheerful and reasons to be watchful'
	Professor Clive Kay, Chief Executive, King's College Hospitals NHS Foundation Trust

15:00 Break

Session: Challenging cases

Chair: Professor Stuart Taylor and Dr Andrew Nanapragasam			
15:30	Challenging cases		
	Dr Hameed Rafiee, Consultant Radiologist, Norfolk and Norwich University Hospitals NHS Foundation Trust		
16:15	Challenging cases		
	Dr Mary Roddie, Consultant Radiologist, Imperial College Healthcare NHS Trust		

17:00 Close of day

Friday 5 November

STREAM C: LEARNING FROM EXPERTS AND ERRORS (AM) CHALLENGING CASES (PM)

Session: Radiological discrepancy

Chair: Dr Simon Jackson

09:30	Why errors occur in radiology		
	Dr Giles Maskell, Consultant Radiologist, Royal Cornwall Hospitals NHS Trust		
09:50	Celebrating excellence: An alternative approach to errors in radiology		
	Dr Jonathan Smith, Consultant Radiologist, Leeds Teaching Hospitals NHS Trust		
10:10	Panel Q&A		
	Drs Giles Maskell and Jonathan Smith		

11:00 Break

11:30	"Looked but failed to see" errors in radiology and elsewhere		
	Professor Jeremy Wolfe, Professor of Ophthalmology and Professor of Radiology, Harvard Medical School; and		
	Director, Visual Attention Lab		
11:50	Medico-legal update for radiologists		
	Dr Shawn Halpin, Consultant Neuroradiologist, University Hospital of Wales		
12:10	Panel Q&A		
	Professor Jeremy Wolfe and Dr Shawn Halpin		

13:00 Lunch

14:00The Canon Mayneord lecture: 'Integrated Care – reasons to be cheerful and reasons to be watchful'Professor Clive Kay, Chief Executive, King's College Hospitals NHS Foundation Trust

15:	00	Break		
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Session: Challenging cases

Chair: Professor Stuart Taylor and Dr Andrew Nanapragasam 15:30 Challenging cases Dr Hameed Rafiee, Consultant Radiologist, Norfolk and Norwich University Hospitals NHS Foundation Trust 16:15 Challenging cases Dr Mary Roddie, Consultant Radiologist, Imperial College Healthcare NHS Trust

of day

BIR ANNUAL CONGRESS 2021

Reviews from BIR Annual Congress 2019–2020

"This was yet again an excellent congress. With three so good streams it is difficult to choose between them."

"The variety of topics, it educated me on topics I never thought to learn about."

"Good range of topics, well delivered, reinforced my knowledge, even where one already knew the facts it's reassuring to have this confirmed and reinforced, also picked up some useful take-home points. Very pleasant and informative day."

"Pleasant atmosphere; good learning environment."

"Learning something about a topic important to my work."





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