

ANNUAL FORUM

WEDNESDAY 20TH MARCH 09:30 - 13:30



WFICOMF

We have been working hard to develop an interesting and diverse range of speakers at this year's virtual conference.

Where else would you be able to find highlights including Paul Nathanail discussing what AI means for the geosciences sector, Emma Tattersdill on Levelling Up, and a panel discussion on what regulators expect to see on climate change impacts in reports?

In the first session, following the opportunity to hear the voices of early careers professionals, we are covering a number of important current developments in the land condition sector, including the key findings from our recently held SiLC/ CIRIA Stakeholder Workshop.

In part two, we are looking to the future, after a short video from Bruce Lascelles on soil quality commencing with how land condition professionals could have a more impactful role in shaping the sustainability performance of development projects, and discussing concerns about antimicrobial resistance in the environment, and the future of Al and Digital Data.

This is an interactive, CPD event and I'd like to encourage all delegates to participate in the event via our live polls, the chat facility and during the Q&A and panel sessions. Please do use these opportunities to voice your opinions and to encourage industry change.

I'd like to take this opportunity to thank all of the SiLC PTP, Board and Assessors, the team at Forum Court and our Speakers for their valuable contributions and of course to our sponsors who have made this event possible. I hope you enjoy this year's Annual Forum. We would love to hear your feedback and ideas for future events, via our survey or you can contact us via our email address silc@silc.org.uk.

Dr. Tom Henman **Director, RSK Geosciences** and Chair of SiLC PTP

	COEAVED
TIME	SPEAKER
09.30	Opening Address Dr. Tom Henman, Director at RSK and Chair of SiLC PTP
	Voices of Early Career Professionals: 'What are the key future challenges facing the brownfield sector and what do you believe leaders of today should be concentrating on to address these challenge.' Presented by Carrie Rose, Technical Director at GHD
SESSION 1	CURRENT DEVELOPMENTS IN THE LAND CONDITION SECTOR
09.55	The Levelling Up and Regeneration Act 2023 for Land Condition Professionals Emma Tattersdill, Partner (Environmental Law) at Bexley Beaumont
	A Regulator's Guide to Cover Systems and their Verification Rae Watney, Senior Land Quality Officer at Sheffield City Council
	Future Policy and Regulation of Excavated Materials - Findings of a Recent SiLC/ CIRIA Soil CoP Stakeholder Workshop Louise Beale, Integration Project Manager at SLR Consulting
	Q&A
	Changing Weather, Changing our Approach to Land Remediation? Claire Dickinson, Director at Geo-environmental Matters
	 Panel Discussion - What Do Regulators Expect to See on the Incorporation of Climate Change into Land Condition Assessments? Mark Hill, Panel Chair, Climate & Sustainability Lead at The Pensions Regulator Katy Baker, Senior Technical Director at Arcadis Mark Field, Bid Director at VertaseFLI Robert Tyler, Senior Contaminated Land Officer at Royal Borough of Kensington and Chelsea Heidi Bignell, Technical Advisor, Land and Contamination Management at the Environment Agency James Bryan, Climate Change Advisor at the Environment Agency
	Comfort Break
SESSION 2 LOOKING INTO THE FUTURE	
12.10	Welcome back Dr. Tom Henman, Director at RSK and Chair of SiLC PTP
	Soil Biodiversity, Minimising Remediation and Improving Quality of Soil Bruce Lascelles, Director for Climate Smart and Sustainable Land Management at Arcadis Consulting UK
	The Future of Land Condition and Sustainable Development Freddie Kennedy, Associate Director at AtkinsRéalis
	Antimicrobial Resistance in the Environment: A Systems Thinking Approach Lucy Bethell, Senior Associate, Contaminated Land Specialist at Mott MacDonald
	Digital Data and AI: The role(s) of Artificial Intelligence Including Machine Learning in Land Contamination Risk Management Paul Nathanail, Technical Director at LQM
	Q&A
13.25	Closing Address Dr. Tom Henman, Director at RSK and Chair of SiLC PTP

PRESENTERS & TOPICS



TOM HENMAN
Director at RSK and
Chair of SiLC PTP
Tom has over 25
years' experience
in the assessment
and management
of land affected

by contamination. His diverse and innovative project work has been recognised in several UK Brownfield Awards. He has also been actively involved with AGS, EIC, CIRIA and CL:AIRE and has worked with universities on collaborative research projects.



CARRIE ROSE
Technical Director
– Contamination
Assessment and
Remediation at GHD
Carrie is a chartered
Technical Director
who has over twenty

years' experience in Contaminated Land assessment and management of ground risk. She has wide ranging experience in the planning, permitting, regulatory engagement, design & delivery of a wide range of land condition related projects.



EMMA TATTERSDILL
Partner
Environmental Law
at Bexley Beaumont
Emma is a solicitor
specialising in
environmental
law. She works

with businesses and individuals on all aspects of environmental regulation, contamination, water and waste management, nuisance issues and the natural environment. As well as supporting SiLC, Emma is a trustee of CL:AIRE and represents UKELA on the National Brownfield Forum.

PRESENTATION

The Levelling Up and Regeneration Act 2023 for Land Condition Professionals

Emma will provide a brief overview of the Levelling Up and Regeneration Act 2023 before exploring two areas of particular relevance to land condition professionals: Environmental Outcome Reports, which are set to replace the Environmental Impact Assessment and Strategic Environmental Assessment regimes across the UK, and Nutrient Pollution Standards (relating to nitrogen and phosphorus pollution in water).



RAE WATNEY

Senior Land Quality
Officer at Sheffield
City Council
Rae is a Local Authority
Officer specialising
in Contaminated
Land and has

previously worked in Contaminated Land consultancy. She is an active member of NCLOG and YALPAG and is a member of the working group for the new NCLOG guidance on simple cover systems. In 2021, she won Best Young Brownfield Professional at the Brownfield Briefing awards.

PRESENTATION

A Regulator's Guide to Cover
Systems and their Verification
An overview of the new NCLOG
guidance on Simple Cover Systems
and their Verification. This document is
intended to be a reference to help Local
Authority officers provide a consistent
approach to regulating the design and
verification of simple cover systems.
The document signposts and collates
existing guidance and discusses and
contextualises regular issues faced by
regulators and consultants.



LOUISE BEALE
Integration Project
Manager at SLR
Consulting, Deputy
Chair SiLC PTP
Louise has worked
in environmental

consultancy for 30

years advising clients on land quality issues associated with the ownership and development of brownfield land including material reuse. She has been deputy chair of the SILC PTP since 2022 and a member of the PTP since 2019.

PRESENTATION

Future Policy and Regulation of Excavated Materials - Findings of a Recent SiLC/ CIRIA Soil CoP Stakeholder Workshop

There is a widespread perception among regulators and the development sector that current approaches to regulation of excavated soils within the waste regulatory regime are not fit for purpose. In this presentation Louise will be sharing findings from the SiLC and CIRIA workshop held in February 2024 to identify potential improved regulatory and policy options for excavated soils. Discussing key issues, desirable outcomes and perceived barriers with potential solutions presented and ranked.



CLAIRE DICKINSON

Director at Geo-environmental Matters Bringing over 30 years of experience in UK land development, Claire

is a contaminated land specialist with a background in geotechnical engineering. She combines running her consultancy with lecturing at the University of Portsmouth. Claire is part of the research team producing online resources for the CIRIA's Soil Community of Practice.

PRESENTATION

Changing Weather, Changing our Approach to Land Remediation? With the news that the 1.5C threshold of global warming has been breached according to the EU's Copernicus Climate Change Service, what are we doing as Land Condition professionals to mitigate and adapt to our changing climate and increased frequency of extreme weather events? This presentation considers the impacts of climate change on contaminant behaviour and whether there needs to be a shift in approach in response to the Climate Emergency.



BRUCE LASCELLES

UK Director,
Sustainable Land
Management at
Arcadis
Bruce is Past President
of the British Society
of Soil Science and

has a PhD in Soil Science. He has focused on the inter-relationships between the physical environment and plant and animal communities, soil and hydrology impacts/benefits in relation land use change and on surveying soil and land use types across the UK.

VIDEO

Healthy soils as Part of a Sustainable Future

This short video will highlight the critical importance of healthy soils for our sustainable future and the multiple ecosystem services soils provide as a critical part of our life support system. Understanding these aspects of soils provides opportunities to increase the impact of land remediation projects in terms of sustainability, biodiversity and climate.

PRESENTERS & TOPICS



FREDDIE KENNEDY
Associate Director at
AtkinsRéalis
Freddie is a
contaminated land and
remediation specialist
and Chartered
Environmentalist. He

has practiced as a land quality consultant and remediation contractor. Freddie has a diverse project portfolio, including a wide variety of former industrial sites and contemporary oil and gas assets.

PRESENTATION

The Future of Land Condition and Sustainable Development

Freddie will discuss opportunities for land condition professionals to have a more impactful role in shaping the sustainability performance of development projects. The presentation will feature Freddie's forward-thinking ideas on how the industry can be reinvigorated, such as by adopting a broader scope to site assessment and remediation options appraisal.



LUCY BETHELL
Technical Director at
Mott MacDonald
Lucy is a contaminated
land specialist at
Mott MacDonald and
is a SiLC, Chair of
CIWEM Contaminated

Land Specialist Panel and CIWEM PTP representative. Lucy has been involved in Mott MacDonald's AMR Working Group since 2019 and has a keen interest in emerging contaminants and big picture, cross discipline challenges.

PRESENTATION

Antimicrobial Resistance (AMR) in the Environment: A Systems Thinking Approach

The challenges associated with AMR can only be tackled by a systems thinking approach, as linked to the One Health Approach promoted by the World Health organisation. This presentation will give an introduction to AMR in the Environment, the challenges it brings and how a systems thinking approach must be used to start to tackle this global threat.



PAUL NATHANAIL
Director at LQM
Paul is a Director of
LQM – a specialist
consultancy innovating
in risk-based land
management. His
interest in machine

learning (ML) began in the 1980s when

he applied geostatistics to model large volumes of methane monitoring results and today revolves around work on "big" data applications of ML for ground characterisation.

PRESENTATION

Digital Data and AI: The role(s) of Artificial Intelligence Including Machine Learning in Land Contamination Risk Management

Paul will discuss how Machine learning (ML), a subset of AI, uses processes or rules and statistical models to analyse and reach conclusions from patterns in data without following explicit instructions. He will go on to explore how large language models such as ChatGPT apply deep learning, a form of ML, to generate text from large datasets and how AI has a role to play in identifying patterns of contamination or migration; predicting the likelihood of contamination risks and ensuring land contamination management practices comply with regulations and standards.

PANEL DISCUSSION PANELLISTS



MARK HILL Climate & Sustainability Lead at The Pensions Regulator (Panel Chair) Mark is the Climate and Sustainability

Lead within The Pensions Regulator (TPR), responsible for developing the regulatory response to climate change and sustainability disclosure requirements and delivering TPR's Climate Change Strategy. He brings some 30 years of experience working predominantly in the public sector.



ROBERT TYLER

Senior Contaminated Land Officer at Royal Borough of Kensington and Chelsea Robert Tyler has dealt with contaminated

land in local government for over 20 years. Apart from the full range of Part 2A and planning work, career highlights include working on the 2012 Olympics, and being involved in the Grenfell Environmental Checks process. Robert is a committee member of the National Contaminated Land Officer's Group.



KATY BAKER Senior Technical Director at Arcadis With 22 years' experience in brownfield site management, specialising in land

contamination risk assessment, Katy supports clients throughout all stages of their asset and across multiple sectors. In 2023, she led a team in Arcadis developing a framework and tool, Climate:CLEAR, to support with predicting the potential impact of climate change on land contamination conceptual site models.



MARK FIELD
Bid Director at
VertaseFLI
Mark has worked
in the brownfield
regeneration sector for
over 20 years having
roles within Industry,

regulation and consultancy, and now a contaminated land, brownfield and environmental contracting specialist. Mark is a SiLC, SQP and a qualified person (DoWCoP), and sits on CIWEM's Contaminated Land Panel and SiLCs Professional and Technical Panel.



HEIDI BIGNELL
Technical
Advisor, Land and
Contamination
Management at the
Environment Agency
Educated at the
University of Leeds

and the University of Southampton, Heidi started her career working for the UK Hydrographic Office. She moved to the Environment Agency in 2004. She started her current role in 2014 and has been the lead on climate change for Land Contamination since 2023.



JAMES BRYAN
Climate Change
Advisor at the
Environment Agency
James has had
several roles within
the EA and latterly
as a climate change

advisor. Some significant work includes; developing strategy to reduce methane leaks from regulated facilities, Producing report on impact of climate change on chemicals; and having written guidance on assessing climate change in contaminated land risk assessment.



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INSTITUTIONS SUPPORTING OF SPECIALISTS IN LAND CONDITION REGISTER













Transforming the world to sustainability



