

Technician Partnership Conference 2022

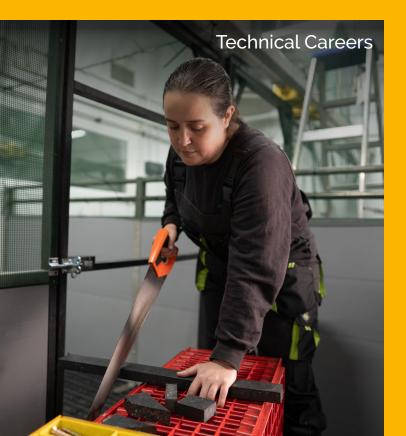
Technicians Stronger Together

Event Programme

6th July 2022: 10am – 4pm

Venue: Newcastle University, Frederick Douglass Centre, Helix Site

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Conference Timetable

9.15 – 10.00	Registration							
10.00	Opening & Welcome Professor Julie Sanders, Deputy Vice-Chancellor and Provost, Newcastle University							
Themes	Sustainability		Research Culture		Technical Careers			
Parallel 1: 10.15	Net Zero in Labs: what can I do? Newcastle University Sustainability Team	Technicians to net zero; please!! Jo Brown and Lisa McMillan, Edinburgh Napier University	Building a positive research culture with everyone in our research community Candy Rowe, Newcastle University A blueprint for team science, inclusive research culture and impact generation. Dr Andrew Filby, Newcastle University		All the things I wish I'd known about careers when I had a job Steve Cross, Science Showoff	Apprenticeships – Practical tips on the end-to-end journey Caleb Wright, University of Birmingham & Karen Bailey-Smith, Sheffield Hallam University		
Parallel 2: 11.15	Moving towards sustainable labs, or how technicians successfully drove the implementation of Laboratory Efficiency Assessment Framework (LEAF) across all University of Exeter labs Daniela Farina, University of Exeter	Scary Movies, Board Games and Lab Equipment Total Life Costs Andy Evans, Green Light Laboratories	Past, Present and Future: Advancing culture for the technical community in UK higher education and research Kelly Vere, University of Nottingham		An overview of Science Council Professional Registration: Why apply, how to apply and an overview of Registers Laurence Dawkins-Hall, University of Leicester	Approaches to STEM Outreach using gaming Sarah Dhanda, Enginuity		
	Sustainable Science and LEAF Update Martin Farley, University College London				AdvanceHE Fellowship for Technicians. Alison Gregory & James Davoll, Newcastle University	From technician to senior management Clare Stevenson, John Innes Centre, Norwich		
12.15- 13.15	Lunch							

Book on the day:	Attracting people to industry through gaming, <i>Helenna Vaughan-Smith</i> , Senior Product Manager, Enginuity Sessions available: 12.20–12.40, 12.45–1.05, 1.05–1.25, 3.05–3.25. Max of 20 people per session							
13.30	Keynote: Net zero and carbon neutrality transitions and pathways Professor Lenny Koh, Cross Cutting Chief, Strategic Futures on Resource Sustainability and co-Head of the Energy Institute, The University of Sheffield							
Parallel 3: 14.15	Net Zero in Labs: what can I do? Newcastle University Sustainability Team	Technicians to net zero; please!! Jo Brown and Lisa McMillan, Edinburgh Napier University	Building a positive research culture with everyone in our research community Candy Rowe, Newcastle University	The Innovation, Methodology and Application Research Theme ® Newcastle University: A blueprint for team science, inclusive research culture and impact generation. Dr Andrew Filby, Newcastle University	An introduction to T Levels Louise Doyle, Mesma	How to network without feeling like your soul is shrivelling up Steve Cross, Science Showoff		
		oard Games and Total Life Costs oratories	Past, Present and Fut culture for the techni UK higher education Kelly Vere, University o	cal community in and research	From technician to senior management Clare Stevenson, John Innes Centre, Norwich	Apprenticeships – Practical tips on the end-to-end journey Caleb Wright, University of Birmingham & Karen Bailey-Smith, Sheffield Hallam University		
15.00	Refreshment Break							
15.30	Keynote: The Big Repair Project – the vital role of technicians in the repair economy of the future Mark Miodownik, Materials scientist & engineer; enthusiast; writer; occasional tv/radio presenter.							
16.15	Close of conference – and Networking Event							

Programme Overview

Timings	Theme	Name of Presentation	Presenter	Synopsis
10.00	Keynote	Opening remarks	Professor Julie Sanders, Deputy Vice-Chancellor and Provost, Newcastle University	Newcastle University is extremely proud of its work as part of honouring the Technicians Commitment. It has been especially instrumental in thinking about inclusive collaborative research and education and recognising the wider contributions of colleagues across the University to projects and programmes. It has also been fundamental to our work on environmental sustainability and positive societal impact informed by the UN Sustainable Development Goals, and I will say a little about this as part of a broader welcome to the conference and the institution.
Parallel 1: 10.15 Parallel 3: 14.15	Sustainability	Net zero in labs: what can I do?	Representatives from the Newcastle University Sustainability Team	Building on over a decade of work towards reducing Newcastle University's environmental impact, in 2021 the University set a target of net-zero carbon dioxide emissions by 2030, accelerating our action on climate change. Efforts to decrease carbon dioxide emissions have been driven and supported by many colleagues and students across the University, and laboratory users have made some huge strides. In this session we will describe some key actions that can be carried out in labs to contribute to net zero, and how management practices and culture change ensure that the actions are their most effective.
Parallel 1: 10.15 Parallel 3: 14.15		Technicians to net zero; please!!	Lisa McMillan and Jo Brown both Technicians within the School of Applied Sciences, Edinburgh Napier University.	In 2018 having had enough of the lab plastic pandemic we set out to find another way. We were thrilled when our waste provider agreed to take decontaminated lab plastics for recycling; this partnership is still fairly unique. The appetite for such change is huge, invitations to speak and share our story - across and beyond the HE sector - keep rolling in. Most institutions including ENU have recently pledged impressive carbon reduction targets. But here's the thing Targets without reference to those technicians who can bring about the necessary change, are misguided. Only those working on the ground can identify and carry out the necessary change. This vital technical catalyst for change needs first to be recognised and acknowledged by themselves(!) and university/sustainability leadership teams. Mandates from above without an appreciation of lab processes are destined to fail. Technicians must be afforded protected time within their traditional roles, a sustainability budget and proactive line management. Enabled and empowered are overused words today but technicians must be both if targets are to be met. There is no plan B. Moreover, all institutions need to grasp the necessity for the 'sustainability technician' roleplease!

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Parallel 2: 11.15	sustainable labs, or how technicians successfully drove the implementa of Laborator Efficiency Assessment Framework (LEAF) acros all Universit Exeter labs Sustainable Science and	successfully drove the implementation of Laboratory Efficiency Assessment Framework (LEAF) across all University of	Daniela Farina, Project Manager, University of Exeter	Sustainability in all aspects of in our transition towards net zo out by the universities is key to of sustainability and helps to ironic that research labs them source of carbon emissions a For many years, little has bee Here I show the combination strategy and bottom-to-top in used to ensure all University compliant with Laboratory Eff Framework (LEAF). This approcentrally assigned goals, but team in each lab, who have the of the facilities they work in. Cand resource sharing minimis replication and allowed sharin At the same time, tapping into technicians ensured actions with the specific requirement. Thanks to this hybrid approace of Exeter's 400+ lab units ach within 12 months of the start of	zero. Research carried to show the importance drive that process. It is inselves are a major and waste generation. In done to change this. To top-to-bottom implementation we of Exeter labs became ficiency Assessment bach was driven by led by the technical and detailed knowledge centralised coordination and of best practice. To the know-how of were accomplished is of each lab in mind. Sh, all of the University ieved LEAF certification
Parallel 2: 11.15		Sustainable Science and LEAF Update	Martin Farley, Sustainable Lab Advisor, UCL	Nations, institutions, and comstarted to make net-zero conthis affect scientific operation Laboratories are recognising nature, and assessing their in consumables. More green labaround the world, though moneeded. LEAF, developed by standard. It is now in use in or This talk will include, an introvand green labs, a review of the and an update on LEAF.	nmitments, but how will as and growth? their energy intensive amense consumption of a efforts are growing re standards are UCL, is one such ver 70 institutions.
Parallel 2: 10.15 Parallel 3: 14.15		Scary Movies, Board Games and Lab Equipment Total Life Costs	Andy Evans, Green Light Laboratories	A treat for all lab sustainabilit Evans from Green Light Labo favourite scary movies to sha costs data on lab equipment; differences in performance of models and types of lab equi delegates will venture into the to discover lab cost factors (a only will delegates discover the will see how they interact and day activities including procurand policy.	ratories will use his re the latest running highlighting the etween different makes, pment. From there e world of board games ika total life costs). Not hese factors but they d impact their day-to-

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Parallel 1: 10.15 Parallel 3: 14.15	Research Culture	Building a positive research culture with everyone in our research community	Candy Rowe, Dean for Research Culture and Strategy, Newcastle University	Candy Rowe will talk about we research culture is so importabeing taken at Newcastle Unibelongs to everyone in our rewe all need to be a part of the aims to open up discussion a research culture can better sucontributions to research from support their career developments.	ant, and the approach iversity. Research culture search community, and e change. The session bout how changes in upport and recognise in technicians and
Parallel 1: 10.15 Parallel 3: 14.15		The Innovation, Methodology and Application Research Theme ® Newcastle University: A blueprint for team science, inclusive research culture and impact generation.	Dr Andrew Filby, Lead of the "Innovation, Methodology and Application (IMA)" research Theme and director of the Cytometry and single cell Unit. Faculty of Medical Sciences, Newcastle University	The crosscutting "Innovation, and Application (IMA) research the Newcastle University Factories (NU-FMS) is home to technologists from both acace job families. In this talk, Dr Fil IMA Theme and how it has been feam science and a healthy culture. He will also discuss birth to a strategic horizon-socalled "NU Tech-Scan"; worki spectrum from discovery scients and beyone valuate and implement new a sustainable manner.	th theme within ulty of medical o methodologists and demic and technical dby will discuss the ecome the embodiment y, inclusive research now it has also given ranning community ng across the whole ence to clinical/ ond to identify,
Parallel 2: 11.15 Parallel 3: 14.15		Past, Present and Future: Advancing culture for the technical community in UK higher education and research	Kelly Vere, Programme Director, Technician Commitment (Science Council), PI – TALENT Programme and Director of Technical Skills and Strategy, University of Nottingham	Through personal experience this talk will discuss the chan the technician community in and research over the past 25 key sector developments, incommendations the Technician Commitment at England TALENT programme recently published TALENT Correcommendations. After discuinitiatives and developments, future holds for technical skill education, research and inno	ges in landscape for UK higher education 5 years. It will cover luding the advent of and the Research , with a focus on the ommission and its assing past and present it will look to what the ls, roles and careers in

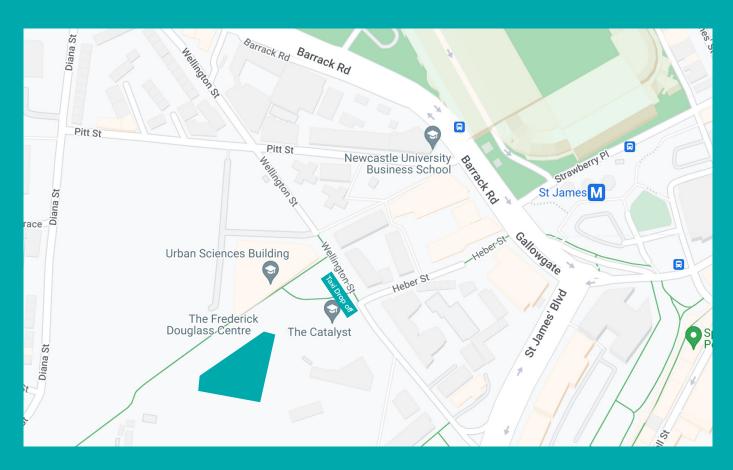
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Parallel 1: 10.15	Technical Careers	All the things I wish I'd known about careers when I had a job	Dr Steve Cross, Creative Director, Science Showoff	This talk and Q&A will look at of career building, and espec proof yourself and build resili experience of the 50+ people last few years, including draw you can improve things for you for permission.	ially how to future- ence. It draws on the I've mentored over the ving lessons about how
Parallel 1: 10.15 Parallel 3: 14.15		Apprenticeships - Practical tips on the end-to- end journey	Caleb Wright, Apprenticeship Manager at University of Birmingham and Dr Karen Bailey- Smith, Technical Development Manager at Sheffield Hallam University	This session is an amalgamat have been delivered previous TechMeet network. It will proprocess to aid you in planning appointment of an apprentice workforce in any subject area provide you with a starting pothe key things to consider builinks to a range of resources to more detail, that you can reference to the services of the servi	sly as part of the NTDC vide an overview of the g, recruitment and e into your technical a. We hope we can pint and an outline of t we will also provide that contain much
Parallel 2: 11.15		An overview of Science Council Professional Registration: Why apply, how to apply and an overview of Registers	Laurence Dawkins-Hall, Teaching Support Technician, University of Leicester	The talk will address the function Council Registration, such as an overview of the associated RSciTech, RSci and CSci; a sure Council licensed bodies and the familiary of CAP. The talk will also defir the Five main competencies, mainstay of CAP application a of reference material associated detailed presentations of min materials on Registration, der Council and licenced body were respectively.	what registration is; a registers, namely mmary of Science finally the mechanics cience Council portal ne but not touch upon which constitute the and in addition a plethora ted with other more e and a Pad let cache of ived from the Science
Parallel 2: 11.15		Approaches to STEM Outreach using gaming	Sarah Dhanda, Head of Policy & Partnerships at Enginuity	Join us to learn about how we and resources to support tear in outreach to inspire young pand Manufacturing careers. "Suit in Minecraft, a hugely pofor the KS3 age group. We intindustry, careers, pathways a environment they find safe argame is designed to help you CV and identify their hidden suffind out more about how garreffective STEM outreach tool.	chers and those involved beople into Engineering Skills Miner" has been brular gaming platform troduce young people to associated skills in an ad engaging. Our HTML5 and people develop their skills. Come and listen to be can be used as an
Parallel 2: 11.15		AdvanceHE Fellowship is for technicians.	Alison Gregory & James Davoll, Newcastle University	Looking at how technicians cand support each other in app AdvanceHE Fellowship. Demystifying the process and activity counts? What level to	olying for d addressing what
Parallel 2: 11.15 Parallel 3: 14.15		From technician to senior management	Dr Clare Stevenson, Head of the Directorate at the John Innes Centre, Norwich	I am proud to have had a tech 30 years. This talk will focus of challenges I have faced which career opportunities. Recently senior management role, leave outside my comfort zone. I was to take opportunities and emiremain fully supportive of the Commitment and in my new to bring a different perspective for visibility, recognition and care technical staff at the John Inn	on the highlights and hin turn have led to y, I have started a new ving the lab and stepping ant to encourage others brace challenges. I rechnician management role will to improving the per progression for
Parallel 3: 14.15		An introduction to T Levels	Louise Doyle, CEO Mesma, Strategic Senior Associate SDN	This session will provide an o Introduced in 2020 as part of education landscape, the roll 2023 when all of the new T La available for students aged 16	the post-GCSE -out continues until evel pathways will be

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Parallel 3: 14.15		How to network without feeling like your soul is shrivelling up	Dr Steve Cross, Creative Director, Science Showoff	This will be a light-hearted q about how to build your network shaking hands and being we ways to make friends who called a mixture of self-reflection ideas from all the people whover the last 6 years, including your peers who are on a similar	vork. It's not about ird, it's about finding an help your career and ur own way. The session group work and stealing o've done the course ag getting advice from
and ca neutra transit		Net zero and carbon neutrality transitions and pathways	Professor Lenny Koh, Cross Cutting Chief, Strategic Futures on Resource Sustainability and co-Head of the Energy Institute, The University of Sheffield	Strategies for successful transitioning to net zero a carbon neutrality require a hybrid of life cycle think and systems approach for resource sustainability management and sustainable development. Parall and synergy between universities, industries and governments can be drawn, highlighting common and bespoke challenges and approaches. This keynote will show some key examples, enablers and pathways, and explain the importance of inclusive leadership and culture, across the entire organisations and environments. It will also illustrative roles of stakeholders including technician.	
15.30	Keynote	The Big Repair Project – the vital role of technicians in the repair economy of the future	Mark Miodownik, Materials scientist & engineer; enthusiast; writer; occasional tv/ radio presenter.	To deal with issues such as p climate change all materials will need to be part of a circuneed to be designed for repand recycling. But how far av Almost all current products a homes and cities fail this circusk is enormous and means redesign practically everythithis talk I address the challer shift with an emphasis on hoone of the few professions al in the repair economy, are lik in this societal and economic	and products in future ular economy – they air, remanufacturing, vay is that future? and materials in our cularity test. Thus, the that we will need to ng - and do it fast. In nges of this paradigm w technicians, who are uready deeply embedded ely to play a leading role
Book on the Day: 12.20–12.40, 12.45–13.05, 13.05–13.25, 15.05–15.25. Max of 20 people per slot		Attracting people to industry through gaming	Helenna Vaughan-Smith, Senior Product Manager, Enginuity	Join us to find out more about and resources to support teat in outreach to inspire young and Manufacturing careers. "built in Minecraft, a hugely performed to industry, careers, performed to industry, careers, performed to industry, careers, performed to industry, careers, performed to industry to have the games under the expert Minecraft experts.	achers and those involved people into Engineering Skills Miner" has been opular gaming platform ames introduce young bathways and associated find safe and engaging.

Travel and Accommodation

If you are planning to attend the conference and would like to book a hotel, we have a list of hotels with preferential rates, to find out more, go to our website: www.newcastlegateshead.com/TCP2022

Map & Directions for Frederick Douglass Centre – Newcastle Helix



The Frederick Douglass Centre is located on the new Newcastle Helix Site, close to St James Park.

By Train (15-minute walk from Central Station)

From Central Station cross the road onto Westgate Road. Turn left and walk up Westgate Road and then right onto Bath Lane. Cross over St James' Boulevard and continue on Bath Lane for 200m. The building is on the left-hand side.

By Metro (5-minute walk from St James Metro)

From St James Metro Station cross over Gallowgate and walk up Heber Street (with the Sandman Hotel on your left). The building will be in front of you.

By Bus (5-minute walk from Barrack Road)

The nearest bus stop is Barrack Road-St James Park. Walk down Barrack Road in the direction of the City Centre. Turn right onto Heber Street and continue to Wellington Street. The building will be in front of you.

By Taxi

Our postcode is NE4 5TG. Taxis can drop off on Wellington Street, just outside The Frederick Douglass Centre.