

08.45- 8.50

### OPENING REMARKS

8.50 -09:00

### SEEN Youth Ambassadors - The Importance of Anti-Racism in Schools

09.00- 9.45



#### KEYNOTE - In conversation with Angela Saini

#### The challenges of understanding race, gender and history in science.

Angela Saini, international award-winning journalist and author of "Inferior: How Science Got Women Wrong" (Physics World's book of the year), "Superior: The Return of Race Science" and "The Patriarchs: How Men Came to Rule" will use her expertise on race and gender history in science to answer your questions, which you can submit your questions [here](#).

9.45- 10:00

### BREAK

10.00- 10.55

### SESSION 1

#### Professor Pragya Agarwal

#### Science for Everyone: Disrupting the myths



In this talk informed by psychology, cognitive science, and neuroscience, Prof. Pragya Agarwal disrupts the many myths and misconceptions that limit access to science, and addresses how we can tackle our own biases - both implicit and explicit- to make science education more inclusive.



Please note this session won't be recorded.

#### 1001 Inventions : Ahmed Salim

#### Lighting up the 'Dark Ages' with 1001 Inventions Enriching the teaching of science in an ethnically diverse society

Award-winning educational producer and philanthropist Ahmed Salim shares how millions of educators use '1001 Inventions' freely available materials to enrich the teaching of science, helping learners celebrate diversity, improve inclusion, and inspire further interest in science. These materials, produced by Ahmed Salim, explore the cultural roots of science with a focus on a period known as the 'Golden Age of Arabic Science'. They include short films (featuring Oscar winner Sir Ben Kingsley, the legendary Omar Sharif, and scientist Professor Jim Al-Khalili), live science theatre shows, school science fairs, and extensive hands-on workshop guides, along with impact evaluation methods.



11:00 - 11:55

### SESSION 2

#### DRET: Emma Swift and Natalie Johnston

#### Diversifying the secondary science curriculum - a case study



This session looks at how a multi-academy trust developed a DEI vision and implemented that in the curriculum and resourcing of secondary science.

#### The Bell Foundation: Kamil Trzebiatowski

#### Supporting learners using EAL in Science - effective strategies and approaches

Learners who use EAL are tasked with simultaneously learning English and learning curriculum through English. This session will explore the specific barriers to learning that this group of learners may face and offer a number of tried-and-tested and effective EAL strategies and approaches, all contextualised to secondary Science. We will present you with a number of examples of resources produced for secondary Science lessons throughout this session.



# Conference Programme

11:55 - 12:30

LUNCH

12:30 - 13:25

SESSION 3



**DRET: Emma Swift and Natalie Johnston**

**Science curriculum design and implementation for inclusion**

This session looks at how thoughtful curriculum planning and development using cognitive science can ensure accessibility and attainment for all learners.

**Institute of Physics: Eleanor Wylie and Sue Woolhouse**  
**Inclusive Science Practicals**

Sue and Eleanor will be applying their Top Tips for Inclusive Science Teaching to practical work and sharing ideas across the three themes of:

- Creating an inclusive classroom culture to maximise participation in practical activities.
- Making the practicals relevant for students.
- Building literacy and numeracy to support practical work.

There will be plenty of ideas for you to takeaway and use in your science classroom!



**NUSTEM: Dr Carole Davenport**

**Embedding careers and attributes in the science classroom**

Young people have a fairly narrow view of the range of careers that studying science can lead to. In this session we will look at how to embed careers into science teaching through simple activities and resources. We'll also consider how using attributes such as 'open-minded' and 'resilience' can help young people to develop a 'science identity' by comparing themselves with people who already work in STEM.

13:30 - 14:25

SESSION 4



**With Insight Education: Christine Kinnear**

**Mentoring: Potential Unleashed**

Mentoring has the capability to transform the trajectory for a young person but also poses a number of delivery challenges. Christine will talk about the lessons that she has learnt and share the essentials of getting it right for anyone thinking of designing their own youth programme.

**Barnardos: Delano Gounet-Moore**

**Anti-racism in Education**

This session is designed for schools that are looking to embark or progress along their anti-racism journey. It begins with an acknowledgement of schools as the primary site of racial trauma for children and young people, delves into the ways in which and reasons why racism is still so prevalent in our schools and the traumatic impact this has on children and young people, and finishes with some guidelines and recommendations for progression towards being an anti-racist school, followed by an interactive Q&A.



14:25 - 15:00

BREAK

# Conference Programme

15:00 - 15:55

## SESSION 5



### **Bukky Yusuf** **Supporting the Science learning of SEND students**

This session will review some of the most effective ways to aid the learning and progress of SEND students .

### **ImpactEd Evaluation: Charlie Ellis** **Evaluating and improving impact: working out what's working in the classroom**

This session will focus on how to use a range of evaluation approaches, tools and methodologies to help assess the impact of a particular strategy or intervention in your lessons or department. This will include practical steps to develop your impact measurement practice without increasing teacher workload. There will be a particular focus on methods for reliably evaluating non-academic outcomes such as meta-cognition, self-efficacy and motivation.



### **Gender-Inclusive Biology: Sam Long & Sarah Cosgriff** **Visibilising and Usualising LGBTQ+ Perspectives in Science**

Join this session to learn more about why visibilising and usualising LGBTQ+ perspectives in science lessons is important and small tweaks you can make to embed them into biology, chemistry and physics topics. You will also be signposted to resources which you can use and share with your colleagues.

16:00 - 16:55

## SESSION 6



### **Physics Forward: Jon Lansley-Gordon** **Authentic Diversity & Inclusion for Science Educators**

This talk will explore broad and current D&I themes in education, before zooming in to consider scenarios that interrogate authentic vs. tokenistic approaches to incorporating such themes in science education. Participants will get the opportunity to reflect on their practice and will leave with some practical strategies to enrich their pedagogy and curriculum.

### **Neurodivergent Narratives: Sandra Coral** **Looking Beyond the Label: How we create cultures of belonging for our neurodivergent learners**

Sandra explores how we can support neurodivergent students in inclusive classrooms by creating cultures of belonging through practical strategies and practices that foster a stronger felt sense of psychological and emotional safety. Topics include: trauma-informed practice, intersectionality, neurodiversity, teaching strategies.



16:55 - 17:00

## CLOSING REMARKS