



Dumfries & Galloway's sixth annual STEM Conference focussing on all aspects of Science, Technology, Engineering and Mathematics will launch on Monday 24<sup>th</sup> April.

The 2023 conference continues to build on the success of previous online conferences and is being delivered through ThingLink.






We hope that our conference "Keynote" and "Partnership Organisation Professional Learning and Opportunities" sections will provide practitioners across Dumfries & Galloway with insight and continued learning in many aspects of Science, Technology, Engineering & Mathematics.

Our Setting & Schools' Showcase section provides a great opportunity to showcase the excellent STEM learning taking place across settings and schools across Dumfries & Galloway.

All conference materials will be available from today, Monday 24<sup>th</sup> April. These materials will be available throughout Term 4 and into next session to support all practitioners as we work to meet the aspirations of both the STEM Education & Training Strategy for Scotland, and our own Dumfries & Galloway Regional STEM Strategy.

The conference this year is again hosted freely from ThingLink, where Hotspots/Tags are used to allow you to progress through the Conference Keynotes, Marketplaces & Workshop and Schools' Showcase materials. The different Hotspots/Tags will direct you to different places.

#### Hot Spot Key

-  Home
-  Keynotes
-  Professional Learning and Opportunities
-  STEM Showcase
-  Specific Content

Access the 2023 STEM Conference via the link or QR code below:

<https://bit.ly/3mVkONy>



#### Keynote Addresses

- Mark Irwin, STEM Education Officer, Education Scotland - **Ekosgen Report**
- Lorraine Ross, STEM Education Officer, Education Scotland
- Mairi Elder, Social Projects and Sector Education Manager, Scottish Power
- David Maxwell, Quality Improvement Officer, Dumfries and Galloway Education and Learning
- Alison Chambers, Quality Improvement Manager, Dumfries and Galloway Education and Learning

## Partner Organisation – Professional Learning and Opportunities

- The Royal Society of Chemistry
- Institute of Physics
- Institution of Civil Engineers
  - Bridges Project
- Maths Week Scotland
- Smart STEMs
- Association for Science Education
- School Science
- Lifelong Learning
- Biology in the Classroom (Reece Lab – University of Edinburgh)
- Make it Happen
- Skills Development Scotland
- My WOW Live
- Glasgow Science Centre
- Sumdog
- Engineering Habits of Mind (RAISE)
- Technologies Planning Resource (RAISE)
- Robotical – Marty the Robot
- Scottish Youth Film Foundation
- SSERC x2
  - STEM Ambassadors
  - Young STEM Leader Programme
  - ESERO
  - Nuffield Research
  - STEM Clubs
  - Primary and EY
- Dark Space Planetarium, Kirkcudbright
- Digital Schools Awards Scotland
- Dumfries and Galloway College
- Royal Highland Education Trust
- Scotland's Enterprising Schools
- Young Enterprise Scotland
- Scotland's Financial Schools
- Education Scotland – Maths and Numeracy
- Education Scotland – STEM
- University of Glasgow – Environmental Science
- Oxford University Press – Numicon

## Live Sessions

A number of Live Sessions are also available this year to compliment the anytime, anywhere offer.

Sign up here - <https://forms.office.com/e/c7dhe1bPGg>



Monday 24 <sup>th</sup> April 2023	
4 - 4.45pm <b>Education Scotland – STEM</b>	STEM Nation Resources An overview and opportunity to discuss the resources available to support STEM learning from the STEM Nation Resource created as part of Scotland's STEM Education and Training Strategy.
4.45 - 5.30pm <b>Scottish Youth Film Foundation</b>	Benefits of Film in the Classroom An overview of how to teach film in school settings, helping teachers unlock the literacy of films and how to help learners 'read' and 'write' films using the resources that their classrooms have.
Tuesday 25 <sup>th</sup> April 2023	
4 - 4.45pm <b>Scottish Enterprising School</b>	Enterprise & STEM: Developing skills for learning, life and work Join this session to hear more about how an enterprising approach to STEM can be used to develop skills for learning, life and work. Scotland's Enterprising Schools offer free support to cultivate an innovative and creative curriculum that motivates young people to be all they can be in learning, life and work. We provide variety of FREE pick up and use resources covering ages 3 to 18, an extensive library of useful partnering organisations and interesting practice, and deliver professional learning sessions on teaching and learning approaches to enterprise education. Aims: <ul style="list-style-type: none"> <li>• To demonstrate the links between enterprise and STEM</li> <li>• To highlight a range of resources, partner organisations and case studies which can be used by educators to link enterprise and STEM</li> <li>• To showcase the Circular Economy Challenge and invite registrations for academic year 2023-24</li> </ul>
4.45 - 5.30pm <b>Make it Happen</b>	App design and Coding Make it Happen Club (SCIO) is a charity with the aim to inspire children's digital learning. They run an innovative and exciting App Design competition for entire Primary Schools across the United Kingdom. Join them to hear about these opportunities and resources and ways to support coding in classrooms.
Wednesday 26 <sup>th</sup> April 2023	
4 - 4.45pm <b>Institute of Civil Engineers</b>	Support Resources for Engineering - The "E" in STEM Would you like to be more confident teaching "engineering" with your learners? Would you like to understand engineering better and how it could fit into your teaching? This session with Alison Ward, Education & Inspiration Co-ordinator with the Institution of Civil Engineers in Scotland, is for both primary and secondary practitioners and will cover what civil engineering is, how it impacts our communities and how that can relate to your learners. There will be a chance to ask lots of questions and discuss how engineering skills relate to teaching and learning.
4.45 - 5.30pm <b>SSERC</b>	STEM Engagement Opportunities across your learning community Presenters - Jamie Menzies (Programme Manager, Young STEM Leader) and Kerri Haynes (Programme Manager, STEM Ambassadors in Scotland) This session will explore how SSERC's STEM Engagement team can support learning, engagement and enrichment in STEM in early years, primary, secondary and further education settings. This will include information on how you can access opportunities such as the STEM Ambassador Programme, Young STEM Leader Programme and the STEM Clubs Quality Mark.
Thursday 27 <sup>th</sup> April 2023	
4 - 4.45pm <b>SSERC</b>	Engineering STEM Clubs: App Design Challenges - An opportunity to discuss and consider what makes effective STEM challenges look like and offer our learners.
4.45 - 5.30pm	<b>Association of Science Education</b> Skills for Scientific Enquiry: What children need to know to answer scientific questions about the world around them; Discussing and exploring the different Types of Enquiry; Which type to choose and Progression of these.

**Cancelled**



## Setting and Schools' Showcase

Navigate the interactive map of D&G to gain an insight into the STEM activities and learning happening across the authority. Thank you to these setting and schools who have chosen to share their STEM experiences.



<https://bit.ly/3mVkoNY>