



Sponsorship and exhibition opportunities

Scottish Universities Science School

18th -21st January 2022

Golden Jubilee Hotel - Clydebank, Glasgow



Supporting **learning and teaching** in science

The **Scottish Universities Science School (SUSS)** is an opportunity to reach all student secondary science teachers in Scotland and inform them of the available resources to support learning and teaching. This event will allow you to showcase your range of products and services that can support practical STEM-based practical activities in a learning environment. You will have access to the science teachers of the future and an opportunity to influence the type of resources that might become a standard part of their teaching toolkit at an early stage of their teaching career.

About **SSERC**

SSERC, formally constituted as a not-for-profit company limited by guarantee and a registered Scottish Charity set up for the benefit of Scottish Education, is wholly owned by the 32 Scottish Local Authorities. Although in existence since 1965, SSERC was formally incorporated and registered as a charity in 1991. SSERC's services are complex, highly specific and unique in Scottish education. SSERC offers a broad portfolio of services, principally in support of the Science, Technology, Engineering and Mathematics (STEM) areas of the curriculum, which are not available from any other source and which can be broken down into three main strands of activity:

- **Provision of Professional Learning** (for early years, primary and secondary teachers, and technicians in schools and colleges).
- **The Advisory Service** - supporting STEM health and safety
- **Wider STEM engagement activities** including the Young STEM Leader Programme and the STEM Ambassador programme in Scotland.



About **SUSS**

SUSS is a key event in the calendar for all Initial Teacher Education Institutions across Scotland attracting approximately 300 student Science teachers, and their course tutors. SUSS is a two-day residential event which incorporates a topical and relevant keynote address, a range of practical, hands-on experiential workshop sessions, professional update sessions from a range of national bodies and opportunities for extensive professional networking.

In 2022 we will be running two identical programmes to accommodate an increased number of student science teachers.

For more information about SUSS visit:
<https://www.sserc.org.uk/suss/>

Keynote speaker

Our keynote speaker is Kenneth Muir, who was until recently, the Chief Executive and Registrar of the General Teaching Council for Scotland (GTCS).



Prior to his appointment in 2013, Kenneth worked for Her Majesty's Inspectorate of Education (HMIE), latterly as Chief Inspector of Education with responsibility for all inspections and for Curriculum for Excellence. He began his teaching career as a teacher of Geography and Modern Studies (Politics) and has held various senior posts in schools and local authority education departments.

Kenneth is the author of a number of Geography textbooks, is a Fellow of the Royal Scottish Geographical Society and is a regular speaker at national and international conferences.



He has been a member of many national and international education groups, including the Curriculum for Excellence Management Board, the Strategic Board for Teacher Education and the Scottish Education Council. He was a Non-Executive Director of the Scottish College for Educational Leadership and is an Executive member of the International Forum of Teacher Regulatory Authorities.



He chaired the national Ministerial “Reflections” Group which reviewed the first two years’ experience of assessment within the new National Qualifications. He has a particular interest in the Finnish education system where he has worked with Helsinki University and the Finnish National Board of Education. He has also worked to extend the international profile of GTCS through engagement in EU, UNESCO and World Bank projects to establish registration and professional learning systems in developing countries.

Day 1 of the programme

Time	Group	Tuesday 18 th and Thursday 20 th January 2022	Location
08:15-09:00	All	Registration & refreshments	Golden Jubilee Hotel Foyer
09:20-09:25		Welcome and Introduction: <i>Alastair MacGregor</i>	Auditorium
09:25-10:10		Keynote Address: <i>Ken Muir</i>	
10:10-10:40		What can SSERC do for you? <i>Graeme Rough</i>	
10:40-11:10		Break – Central Plaza	
11:10-12:40	S1	Making light of photosynthesis <i>New biology person & Margaret Louis</i>	Arcoona
12:40-13:30		Lunch – Waterhouse Restaurant	Inspiration 1&2
13:30-15:00		How to teach Forces and other tricky stuff <i>Norman Bethune & Evelyn Lee</i>	
15:00-15:30		Break – Central Plaza	
15:30-17:00		Salt and Battery <i>Chris Lloyd & Jane Bailey</i>	
11:10-12:40	S2	Making light of photosynthesis <i>Kate Andrews & Alan Purves</i>	Inspiration 3/Clyde
12:40-13:30		Lunch – Waterhouse Restaurant	Innovation Centre
13:30-15:00		How to teach Forces and other tricky stuff <i>Gregor Steele</i>	
15:00-15:30		Break – Central Plaza	
15:30-17:00		Salt and Battery <i>Stephen Hendry & Heather Bowie</i>	
11:10-12:40	S3	Salt and Battery <i>Chris Lloyd & Jane Bailey</i>	Agamemnon
12:40-13:30		Lunch – Waterhouse Restaurant	Arcoona
13:30-15:00		Making light of photosynthesis <i>New biology person & Margaret Louis</i>	
15:00-15:30		Break – Central Plaza	
15:30-17:00		How to teach Forces and other tricky stuff <i>Norman Bethune & Evelyn Lee</i>	
11:10-12:40	S4	Salt and Battery <i>Stephen Hendry & Heather Bowie</i>	Dalhanna
12:40-13:30		Lunch – Waterhouse Restaurant	Inspiration 3/Clyde
13:30-15:00		Making light of photosynthesis <i>Kate Andrews & Alan Purves</i>	
15:00-15:30		Break – Central Plaza	
15:30-17:00		How to teach Forces and other tricky stuff <i>Gregor Steele</i>	
11:10-12:40	S5	How to teach Forces and other tricky stuff <i>Norman Bethune & Evelyn Lee</i>	Inspiration 1&2
12:40-13:30		Lunch – Waterhouse Restaurant	Agamemnon
13:30-15:00		Salt and Battery <i>Chris Lloyd & Jane Bailey</i>	
15:00-15:30		Break – Central Plaza	
15:30-17:00		Making light of photosynthesis <i>New biology person & Margaret Louis</i>	
11:10-12:40	S6	How to teach Forces and other tricky stuff <i>Gregor Steele</i>	Innovation Centre
12:40-13:30		Lunch – Waterhouse Restaurant	Dalhanna
13:30-15:00		Salt and Battery <i>Stephen Hendry & Heather Bowie</i>	
15:00-15:30		Break – Central Plaza	
15:30-17:00		Making light of photosynthesis <i>Kate Andrews & Alan Purves</i>	
17:00-17:45	All	Check in for Bedrooms	Golden Jubilee Hotel Foyer
18:00 – 19:00		From Sellotape® to Fireflies: Things that glow in the dark! <i>Paul Beaumont</i>	Auditorium
19:15 – 21:00		Dinner	Waterhouse Restaurant and B Bar

Get with the STEM Ambassador Programme



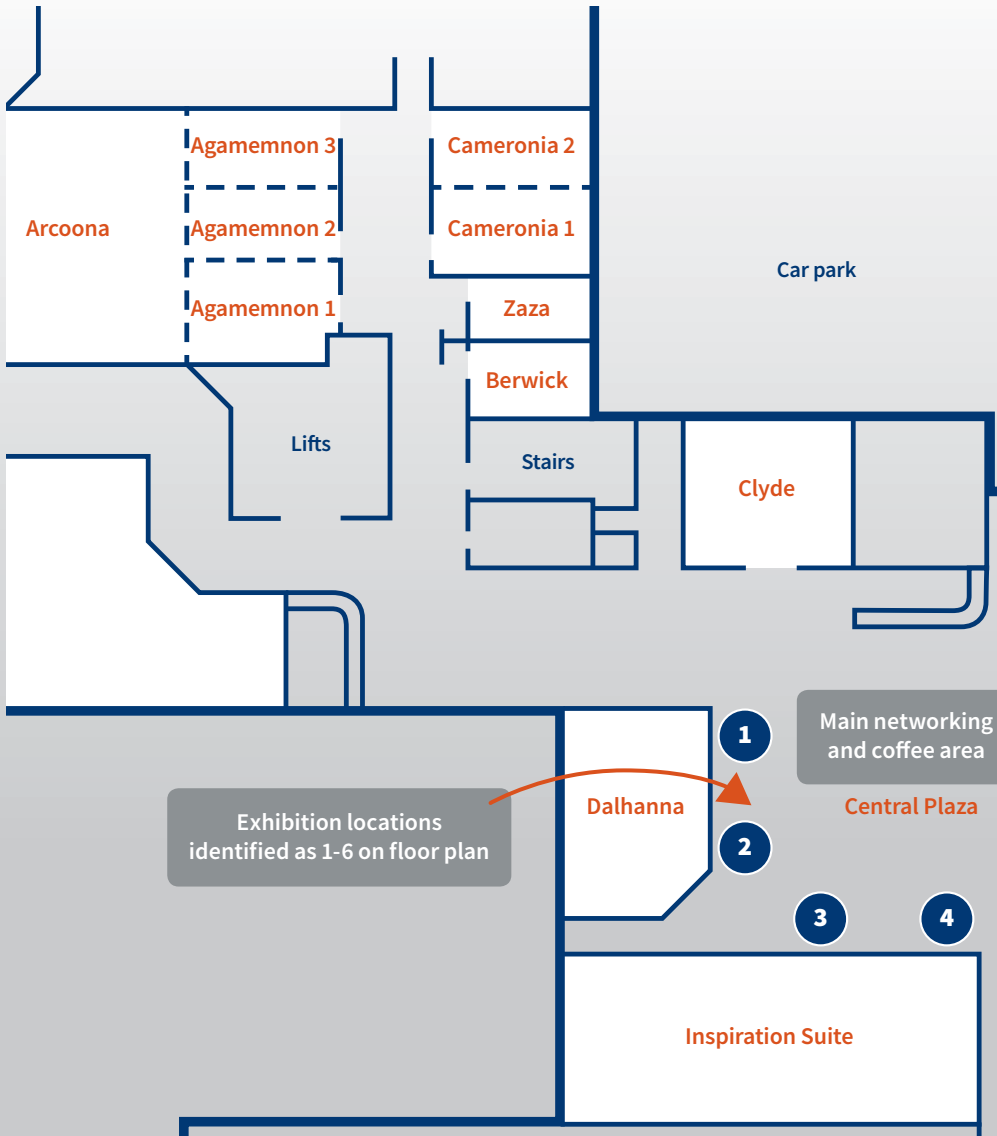
STEM Ambassadors are volunteers from a wide range of science, technology, engineering and mathematics (STEM) related jobs and disciplines across the UK. They volunteer their time and enthusiasm to help bring STEM subjects to life and demonstrate the value of them in life and careers. In Scotland SSERC has the responsibility for the STEM Ambassador programme in Scotland via the STEM Ambassadors in Scotland Hub.

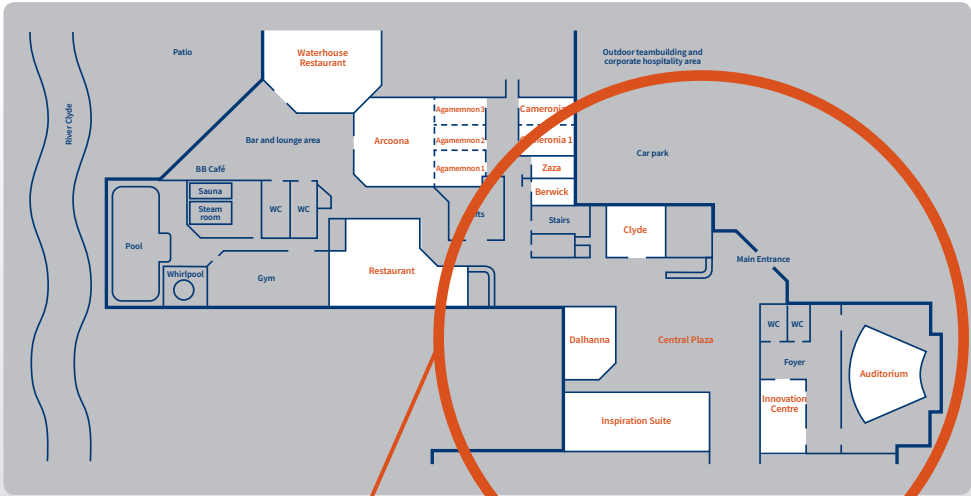


**For more information and how to register for the STEM
Ambassador Programme visit**

<https://www.stem.org.uk/stem-ambassadors> or
<https://www.stemambassadors.scot/>

SUSS exhibition locations

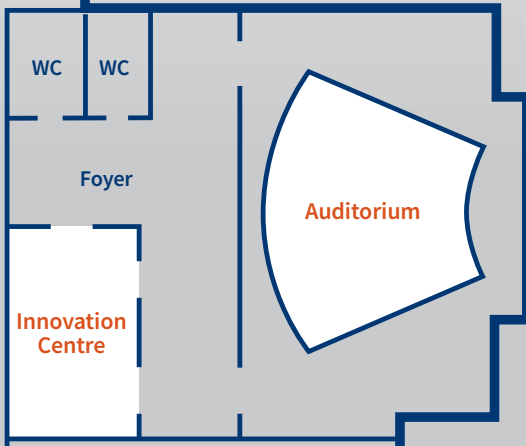




Main Entrance

6

5



Day 2 of the programme

Time	Group	Wednesday 19 th and Friday 20 th January 2022	Location
09:00-09:40	M1	Young STEM Leader Programme <i>Young STEM Leader Team</i>	Auditorium
09:45-12:00		SSERC Showcase 09:45 – 10:15 M1A: Biology in Innovation Centre 09:45 – 10:15 M1B: Chemistry in Dalhanna 10:15 – 10:45 M1A: Chemistry in Dalhanna 10:15 – 10:45 M1B: Biology in Innovation Centre BREAK: Central Plaza (10:45 – 11:00) 11:00 – 11:30 M1A: Physics in Inspiration 3 11:00 – 11:30 M1B: Teacher Support Organisations in Central Plaza 11:30 – 12:00 M1A: Teacher Support Organisations in Central Plaza 11:30 – 12:00 M1B: Physics in Inspiration 3	
12:00-13:00		Lunch – Waterhouse Restaurant	
13:00-14:15		What works in science education? Making learning better and teaching more inspiring <i>Stuart Naylor</i>	Inspiration Space 1&2
14:15-14:30		Break – Central Plaza	
14:30-16:00		Discussion techniques in the classroom <i>Kate Andrews & Hayley Sherrard</i>	Arcoona
09:00-09:40		M2	Young STEM Leader Programme <i>Young STEM Leader Team</i>
09:45-12:00	SSERC Showcase 09:45 – 10:15 M2A: Physics in Inspiration 3 09:45 – 10:15 M2B: Teacher Support Organisations in Central Plaza 10:15 – 10:45 M2A: Teacher Support Organisations in Central Plaza 10:15 – 10:45 M2B: Physics in Inspiration 3 BREAK: Central Plaza (10:45 – 11:00) 11:00 – 11:30 M2A: Biology in Innovation Centre 11:00 – 11:30 M2B: Chemistry in Dalhanna 11:30 – 12:00 M2A: Chemistry in Dalhanna 11:30 – 12:00 M2B: Biology in Innovation Centre		
12:00-13:00	Lunch – Waterhouse Restaurant		
13:00-14:15	Discussion techniques in the classroom <i>Kate Andrews & Hayley Sherrard</i>		Arcoona
14:15-14:30	Break – Central Plaza		
14:30-16:00	What works in science education? Making learning better and teaching more inspiring <i>Stuart Naylor</i>		Inspiration Space 1&2

Day 2 of the programme

Time	Group	Wednesday 19 th and Friday 20 th January 2022	Location
09:00-10:15	M3	What works in science education? Making learning better and teaching more inspiring <i>Stuart Naylor</i>	Inspiration Space 1&2
10:15-10:45		Break – Central Plaza	
10:45-12:00		Discussion techniques in the classroom <i>Kate Andrews & Hayley Sherrard</i>	Arcoona
12:00-13:00		Lunch – Waterhouse Restaurant	
13:00-13:40		Young STEM Leader Programme <i>Young STEM Leader Team</i>	Auditorium
13:45-16:00		SSERC Showcase	
		13:45 – 14:15 M3A: Biology in Innovation Centre 13:45 – 14:15 M3B: Chemistry in Dalhanna	
		14:15 – 14:45 M3A: Chemistry in Dalhanna 14:15 – 14:45 M3B: Biology in Innovation Centre	
		BREAK – Central Plaza (14:45 – 15:00)	
		15:00 – 15:30 M3A: Physics in Inspiration 3 15:00 – 15:30 M3B: Teacher Support Organisations in Central Plaza	
	15:30 – 15:55 M3A: Teacher Support Organisations in Central Plaza 15:30 – 15:55 M3B: Physics in Inspiration 3		
09:00-10:15	M4	Discussion techniques in the classroom <i>Kate Andrews & Hayley Sherrard</i>	Arcoona
10:15-10:45		Break – Central Plaza	
10:45-12:00		What works in science education? Making learning better and teaching more inspiring <i>Stuart Naylor</i>	Inspiration Space 1&2
12:00-13:00		Lunch – Waterhouse Restaurant	
13:00-13:40		Young STEM Leader Programme <i>Young STEM Leader Team</i>	Auditorium
13:45-16:00		SSERC Showcase	
		13:45 – 14:15 M4A: Physics in Inspiration 3 13:45 – 14:15 M4B: Teacher Support Organisations in Central Plaza	
		14:15 – 14:45 M4A: Teacher Support Organisations in Central Plaza 14:15 – 14:45 M4B: Physics in Inspiration 3	
		BREAK – Central Plaza (14:45 – 15:00)	
		15:00 – 15:30 M4A: Biology in Innovation Centre 15:00 – 15:30 M4B: Chemistry in Dalhanna	
	15:30 – 15:55 M4A: Chemistry in Dalhanna 15:30 – 15:55 M4B: Biology in Innovation Centre		

Sponsorship and exhibition packages*

Event Sponsor

- Company logo on all SUSS promotional materials as main SUSS sponsor.
- Logo on main SUSS presentation slides and SUSS delegate folder.
- 1 x 1.5 x 0.6 m exhibition table.
- 2 complimentary delegate places at SUSS including lunch
- Evening dinner on day 1 of SUSS 1 and/or SUSS 2.
- Inclusion of promotional materials in delegate folder.

Exhibition stand

- 1 x 1.5 x 0.6 m exhibition tables including exhibition staff registration.
- Access to WiFi.
- Lunch
- Exhibition stand available day 1 of SUSS 1 and day 1 of SUSS 2.

£300 for day 1 or day 3
£500 for day 1 and day 3

£1000.00



* These prices exclude VAT at applicable rates.

Workshop descriptors

Teaching forces and other tricky stuff

You can't see a force, only its effects, so how do you teach such an often-abstract topic? This workshop looks at the main ideas we are trying to get across to pupils, and the misconceptions that must be tackled. At its core is a series of accessible, fun practical activities that promote deeper thinking and understanding.

Salt and battery

The students make and investigate a series of electrochemical cells. The topic is familiar to chemists, being a common N5 assignment, but is also closely linked to physics. One experiment, looking at concentration cells, also models the way a voltage is produced in nerve impulses, thus connecting biology as well.

Making light of photosynthesis

The workshop provides students with hands-on opportunities to experience aspects of the process of photosynthesis and its relationship to the gas balance of the atmosphere via simple visually illustrative activities. In our experience many misconceptions widely held by student science teachers are addressed in this workshop making it a very valuable foundation for their own understanding and teaching of these big ideas.



Bioluminescence from 'sea fireflies' (image: bluehorizonboutiqueresort.com).

From Sellotape® to fireflies

Things that glow in the dark
A demonstration lecture presented by Paul Beaumont. Suitable for all ages, the lecture, as its title might suggest, covers a range of topics in which light is involved in chemical, physical or biological effects. The lecture has been a successful feature on the programme for many years and brings to an end the formal proceedings on Day 1 of SUSS. All of the activities are readily transferable to the classroom.

The Young STEM Leader Programme (YSLP) is an exciting new award which aims to spark greater interest and participation in STEM among young people in Scotland. Led by SSERC, the Scottish Government funded programme gives young people the opportunity to inspire, lead and mentor their peers through the creation and delivery of STEM activities, events and interactions within their school, community or youth group.

As well as allowing Young STEM Leaders to develop important leadership, communication and employability skills, working towards a Young STEM Leader Award will also motivate them to continue to progress their STEM studies and perhaps eventually embark on a career in STEM. Above all else, this programme aims to promote STEM curiosity among young people in a fun and engaging way. The programme is in its first full year of national launch having been successfully piloted in academic year 19/20 with over 400 centres in Scotland now taking part.

The Young STEM Leader Programme is free to all young people and delivering centres in Scotland and is offered at six levels. At Curriculum for Excellence Second, Third and Fourth Levels (YSL2, YSL3 and YSL4) the award underpinned by a framework that identifies the skills, knowledge and behaviours expected of a Young STEM Leader. The young people are awarded digital badges and certificates in four elements: Discover, Create, Inspire and Lead.



Credit rated and approved by SQA, formal awards are offered at SCQF Levels 4, 5 and 6 (YSL4, YSL5 and YSL6) and are underpinned by learning outcomes and performance criteria for each level.

There are over 3000 Young STEM Leaders in Scotland, will your centre be next to join the programme?

To find out more and to kick start your centre's Young STEM Leader journey:

Web www.youngstemleader.scot
 Email youngstemleader@sserc.scot
 Twitter @YoungSTEMLeader

