



CAMBRIDGE
SCIENCE
CENTRE



Cambridge Science Centre

Annual Review 2022

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CEO Statement

My arrival at CSC in 2022 coincided with a raft of growing global challenges that threaten our very future. As humanity struggles to come to terms with its impact upon the planet, we are ever more aware of the need to join together and to chart new ways forward. But who can lead us there? Who can cut through the layers of false news and endless distractions? We've seen the answer. We've seen bravery and clarity; compassion and foresight; and it has consistently come from the same direction – young people.

We need our young people to be passionate, skeptical, imaginative, and inquisitive more than ever before. That is where we believe, with your support, Cambridge Science Centre (CSC) can play a part. Too many children, especially those from diverse backgrounds, are switching off from Science, Technology, Engineering, Mathematics (STEM). It's our mission to bring the majesty and mystery of the workings of the world into their lives in a way that sparks joy and opens up a future of exploration and opportunity.



And CSC is well equipped to do this. Our hands-on exhibits allow the experimentation and creativity that is all too often stripped from the classroom thanks to forces beyond the control of teachers. Our inspiring Communicators draw from our tested armoury of experiments, performances and participatory activities to tailor our experiences to the needs of each and every child.

And, crucially, we do this as part of a supportive ecosystem of likeminded organisations and individuals. Working with the STEM industry, academia and

local decision makers brings our work alive – it allows us to showcase innovation and connect young people to opportunity.

As an organisation, we're looking forward to an ever more impactful year as we hit our tenth anniversary in 2023. You can expect us to continue to champion the needs of young people and their communities; to reinvent what it means to be a Science Centre in the service of a brighter future; and, above all, to keep bringing the wonder of STEM into the lives of the young people who can shape a brighter future for us all.



John Bull
CEO



Who We Are

A future where all children enjoy, explore and shape the world through STEM

That's the vision of the world that we want to help create.

Imagine a time where decisions are based on what is best for people and planet; a time where we use our resources wisely for the benefit of all; a time where everyone has equality of opportunity. At CSC, we're driven to work with young people to make this a reality.

In playing our part, we need to focus our



energies to maximise our impact, and so, our mission is:

To co-develop and deliver transformational STEM experiences for young people and the adults in their lives

There are important principles buried in this statement that we will use to guide our work.

Co-development – Young people will be empowered to advise, guide and hold us accountable. Only through working together can we truly claim to be serving the needs of young people because we can never see the world through their eyes. In 2023, we'll create our first Youth Advisory Panel and experiment with ways to give young people power and ownership of our outputs.



Transformational – The experiences that we craft are magical and monumental; joyful and surprising; and so powerful that they can change the direction of lives. These 'transformational' moments are something that we will study in order to create a repeatable methodology for delivery and for measuring impact. 2023 will see us publish our own Theory of Change, which maps the journey we hope to facilitate young people to take.

For young people and the adults in their lives – We're in existence for the benefit of young people, but we know that we can't inspire change alone. We'll be redoubling our efforts to work with teachers, care givers, community leaders, employers and other service providers to ensure an integrated and consistent approach to our combined efforts.



Comments From Our Chair



visits, many of which were part of our multi-day Roadshows which turn school halls into Science Centres. School bookings are up 12%.

Having weathered the pandemic, 2022 was a record-breaking year for Cambridge Science Centre. Our success has been due to the hard work of CEO, Helen Slaski who retired at the beginning of the year, Dr Chris Lennard, who stepped in as Interim CEO from January to July, John Bull our new CEO who joined in July, the support of our Executive Council, donors and granting organisations, and, last but not least, an incredible team of dedicated people at the Centre. Thank you for helping to make the Cambridge Science Centre such a success.

2023 marks our 10th anniversary. We are beginning this year with a CEO who brings a wealth of experience and fresh ideas gained in science centres and museums, most recently from his position as Director of 'Terra - The Sustainability Pavilion', an innovative science centre based in Dubai. And we are adding new talent and expertise to our brilliant Board of Trustees.

We make an impact by taking science to young people. I look forward to this coming year as we develop more sustainable routes so that even more young people can benefit from our unique brand of engaging, hands-on science.

We are an outreach organisation with a Centre attached. We believe that we should bring the science to young people, and not expect them to come to us.

Our Pop-Up Science Centres around the region attracted 39,000 visitors in 2022. We've been constantly on the road appearing at over 30 community events during the year. We've also been out to schools. We engaged with over 8,500 students and 679 teachers across 100



Dr David Cleevely
CBE, FEng, FIET
CHAIR

On The Road



'Popping up' STEM in the centre of communities

Not everyone has equal access to the opportunities offered by a lifelong association with STEM. Far too many young people are short of 'science capital' – they don't have a depth of contact with scientists, engineers or fun science activities, and STEM is just too far from their hearts.

"Fantastic and fun, breaks social barriers."

"Keep the good work up, it's an amazing job and creating a lot of interest in kids towards STEM subjects and careers."

We're actively tackling this by hitting the road and popping-up our amazing Science Centre in the heart of communities.

**"Incredible afternoon!
My two girls absolutely loved it!"**

Our presence in local communities sees our reach and impact rise hugely. We are attracting ever more diverse audiences from toddlers to teens. Thanks to the support of our funding partners, these pop-up Science Centres are free to enter, removing barriers and making casual visits for those just going about their daily business so much easier.

These first steps in engaging with STEM are key to setting young people on a STEM-infused path for the rest of their lives.



Our reach has been impressive with over 39,000 people engaged as part of our community pop-ups in 2022.

**"A thoroughly enjoyable experience! If we'd tried to make the kids sit and read about science, they would not have learnt and grown nearly as much as with this hands-on experience in this supportive environment.
Thank you!"**

And this has taken place in a huge range of places from the Cambridge Festival to Queensgate Shopping Centre in Peterborough; from the North Cambridge Community Partnership Centre to the Big Biology Day at Hills Road school. We've been constantly on the road appearing at over 30 community events over the year.

Schools

Demand for our fabulous outreach to schools has gone through the roof!

As the restrictions of the pandemic end, teachers are desperate for the energy and excitement of in-person delivery. Consequently, 2022 has been our busiest year ever for delivery in schools across the region!

2022 has seen us engage over 8,500 students and 679 teachers across 100 visits many of which were part of our multi-day Roadshows which turn school halls into Science Centres.

Our catalogue of explosive science shows and participatory hands-on workshops bring a little magic into school for the day. Full of larger-than-life props, rarely seen technology and memorable experiments, we are preparing for even more growth in 2023.



These uplifting transformational experiences are crucial to broadening engagement with STEM. Sadly, by the age of 11 the majority of young learners have decided that STEM subjects are 'not for me'. That is disproportionately true for those who face disadvantage in their lives. We have to change this!

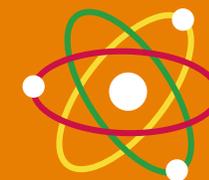
Teachers and young people see the power of what we do – and they love it – with 99% recommending us to their friends and colleagues. These interventions have all the ingredients to change the way young people see themselves and the world around them.

“A brilliant show that *engaged and inspired* the children. They were hooked. Thank you!”



“I had lots of the children come back *really enthusiastic...* and using some high-level vocabulary! As science-lead at the school, it was a great way of helping our Year 6 to *see how science impacts the world* and really fits well with our curriculum driver of ‘Creating Global Citizens’.”

“The show, workshop and overall presentation worked brilliantly for our school. Pupils engaged readily with the workshop (some primary pupils were still talking about their designs just last week (roadshow in July, feedback in November) and ‘tweaking’ them to go even faster – experiments they were *continuing to investigate at home!*.”



Working With Industry



Inspiring young people through real-world STEM

We are fortunate to have a fabulous network of like-minded organisations in the corporate, statutory and academic sectors. Only through collaboration can we hope to create the change that is needed.

Each of us brings something different to the table. Academia brings cutting edge research to life; local and national government ensure action is directed towards the areas of greatest need; and our corporate and industry partners can highlight successful STEM futures for young people.



Our expertise lies in crafting activities that get neurones firing, hearts beating and conversations flowing – and that’s exactly what we did with our Executive Council member G’s Fresh. G’s are one of Europe’s leading family-owned fresh produce producers growing around 20,000 hectares of crops and they asked us to create an activity to support their schools outreach programme.



In 2022 we have created opportunities for our corporate partners to volunteer in our engagements; working closely with our partners, we’ve helped bring their industries to life for our beneficiaries in creative and tangible ways; developing new shows, workshops and activities that unlock breathtaking insights and fascinating messages.





Starting from the local schools' need to enhance mathematics learning, we looked at G's business afresh. The result is a team-based workshop in which students guide a bag of salad from field to table. Using the power of real-world maths, students play different roles to ensure a profit and limit waste by figuring out the number of plants to sow, the logistics of transport, and working with supermarkets to sell the crop.



Our Finances 2022

We are an independent charity and do not receive any income from Government sources.

We rely on the amazing support of individuals, businesses and organisations who all share our passion for getting young people into science and inspiring the next generation with STEM curiosity and opportunity.

We are very grateful to our many generous supporters – our Executive Council and individual donors – without whom our work to help create the next generation of scientists, technologists, engineers, and mathematicians would not be possible.



Income



70%
from voluntary sources



20%
from charitable sources



10%
from direct sources

Costs



82%
on charitable activities



17%
on costs of funds raised



1%
on legal and governance

Executive Council



Our Executive Council is made up of ten global businesses who provide us with critical financial support.

We also depend on the enthusiasm, commitment, and strategic expertise they bring.

This year, our Executive Council members featured representatives from:

Anglia Ruskin University, Arm, AstraZeneca, Bruntwood SciTech, Cambridge Consultants, CEMEX, G's Fresh, Johnson Matthey, Kao Data, and MathWorks*

The University of Cambridge supports Cambridge Science Centre via our Ambassadors: Lord Rees of Ludlow and Dame Athene Donald, and via volunteer support from many of its faculties, departments, colleges and individual academics.

“Arm is a proud supporter of the Cambridge Science Centre. We know how important it is to inspire the next generation about their potential in STEM, irrespective of background, and are full of admiration for the Centre’s mission to reach young people in Cambridgeshire and beyond.”

– ARM



“We decided to join the Cambridge Science Centre Executive Council because of the close alignment between their aims and those of our STEM Outreach program. The pivot from providing face-to-face activities to producing a physical magazine distributed through social enterprises during the Covid pandemic particularly impressed us. The partnership with CSC also provides an amazing array of ways for our staff to get involved and make a positive impact in their local area.”

– Cambridge Consultants



Our Current Executive Council (Dec 22)



Partnerships And Collaborations

We collaborate with individuals and organisations in Cambridge and East Anglia to showcase our work and promote the STEM-inspired innovations which fuel this area.

We thank our partners and supporters for providing us with their time, expertise and knowledge.

Anglia Ruskin University, Cambridge
Anglia Ruskin University, Chelmsford
Anglia Ruskin University, Peterborough
Annie Tranmer Charitable Trust
Arm Ltd
Ashley Turner, POLA Technical Solutions Ltd
Association of Science & Discovery Centres
AstraZeneca Ltd
Bruntwood SciTech
Cambridge Consultants Ltd
Cambridge Festival
Cambridge Innovation Capital Ltd
Cambridge Science Park
Cambridge Wireless
Cambridgeshire & Peterborough
Combined Authority
Cambridgeshire BID

Carolyn Douthwaite, PIR International
Cemex UK
Citrix Systems UK Ltd
Cleevly Family Charitable Trust
Department of Engineering, University of
Cambridge
Dr Dan Staines
Dr Jason Mellad, Start Codon
Dr Justin Vanderberg
Dr Robert Sansom, FREng
Earl Fitzwilliam Charitable Trust
Evolution Education Trust
Explore Your Universe, EYU4
(ASDC and STFC)
FAAM
Faculty of Education,
University of Cambridge
Ganzoni Charitable Trust
Geoffrey Watling Charity
Grand Arcade, Cambridge
G's Fresh Ltd
Harriet Fear MBE,
Cambridge Ahead & Cambridge&
Institute of Astronomy,
University of Cambridge

Ironmongers' Foundation
Jesus College, University of Cambridge
Johnson Matthey
Kao Data
KPMG
Lady Hind Trust
MathWorks
Mr Mike Inglis
Mrs L D Rope, Third Charitable Settlement
North Cambridge Community Partnership
Nuclera UK
Paul Hutchins, Hutched Ltd
PEM Accountants
Perkins Engines Company Ltd
Professor Peter Landshoff
Redgate Software Ltd
Relithan Charitable Trust
Royal Academy of Engineering
Royal Society of Chemistry Outreach Fund
Salvatore Di Maggio, KPMG
Source BioScience Ltd
Steel Charitable Trust
Swire Charitable Trust



Staying In Touch

Please get in touch if you have any questions. We'd love to hear from you.

Email:

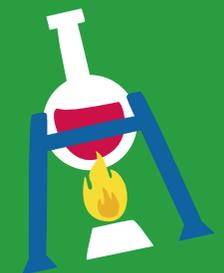
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