

Education for Sustainable Development TSN

Nature & Climate Confident Teaching

14th Nov 2023

Convenor: Christine Calder, Rehema White, Scott Strachan

Agenda

13.30 Welcome and introductions

13.45: Case studies and stories

Lisa McGovern & Gavin Burnett, City of Glasgow College

Barry Carmichael & Christine Calder, Dundee & Angus College

Sarah Proctor & Scott Strachan, University of Strathclyde

14.15: Q&A

14.25: Quick resource overview

14.30: Peer-to-peer discussion & reflection – breakout rooms

14.48: Breakout room debrief, conclusions, and close

Welcome and Introductions



Poll: Where are you at?

On a scale from **1, not confident at all**, to **5, very confident**, how do you estimate your own or (if you're not teaching yourself) your colleague's confidence on integrating these topics into their teaching practice:

- A. Climate Change
- B. Biodiversity
- C. Net Zero
- D Waste
- E Pollution

If the poll does not work for you, do post in the chat: e.g. A = 2 means your confidence around Climate Change topics is rather low, D = 4 means your confidence around teaching about waste is rather high.

Creativity & complex topics

Lisa Mcgovern & Gavin Burnett, City of Glasgow College

Creative Approaches To Environmental Issues

CITY OF GLASGOW
COLLEGE





Jewellery

Radical Jewellery Makeover

RAISING AWARENESS

- PROJECT BRIEFS
- ECO AWARENESS WEEK
- SCHOOL DESIGN COMPETITION
- GREEN XMAS FAIR



Applied Arts

Metamorphosis Exhibition, COP26

PRACTICAL CHANGES

- RECYCLING METAL IN HOUSE
- USING ECO FRIENDLY CHEMICALS
- RECYCLING AREA
- BAN OF NEW PLASTICS



Silver reclaimed from discarded NHS Xrays



Plant Based Resin

- FINANCIAL
- TIME
- SUPPORT
- MINDSET



- QUALITY OF WORK
- STUDENT ENGAGEMENT
- PARTNERSHIPS

SMOGWARE

City of Glasgow College in collaboration with Ruth Impey and
Lab AIR
March 2023



ABOUT SMOGWARE

- Smogware is a publicly engaging project by Lab AIR, Rotterdam to support and provoke debate and change towards improved air quality.
- This toxic matter is made visible, highlighting the poor air quality that surrounds us.
- Settled particulate matter is collected in 'expeditions' and then used to stain ceramic glazes.
- Smogware launched the project in different cities and Glasgow was one of those cities selected, working with students at City of Glasgow College.



SMOGWARE GLASGOW

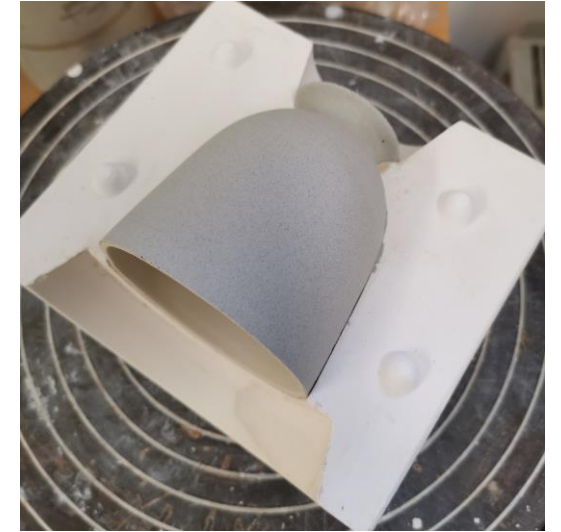
- The Smogware project was contextualized within the history and heritage of Glasgow's historic pottery industry. The tea set was cast from moulds created from an historic tea set made in the city.
- In a period of three months the students made their interpretation of the tea set. Giving a voice to their concerns about their future.
- The Glasgow Smogware tea set was used at an afternoon tea on National Clean Air Day, 15 June 2023 and was held in The City Chambers and hosted by Asthma & Lung and The Lord Provost.
- This event, of about 50 guests brought together, students, and stakeholders in the project to advocate for better air quality in Glasgow.



Dust collected from the M8

COLLABORATION

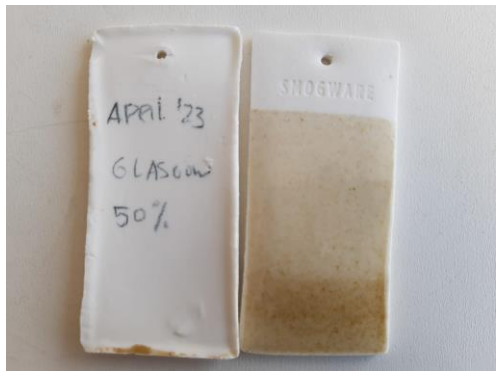
- Smogware (Iris de Kievith and Annemarie Piscaer of LabAIR), City of Glasgow College Staff and students, Make it Glasgow (Ruth Impey), Asthma & Lung UK.
- City of Glasgow College Applied Arts students harvested the 'dust'.
- The dust was used to create a glaze for slip cast porcelain vessels, visualising particulate matter breathed in Glasgow over time.
- Gavin Burnett created the moulds of the tea set using a 3D printed copy from the famous J & M P Bell's Glasgow Pottery. Ruth Impey and the City of Glasgow College students slip cast the tableware in porcelain.
- Asthma & Lung UK contributed with their channels of communication and campaigning for the LEZ and co-hosted the afternoon tea on National Clean Air Day.





Harvesting dust

Ruth Impey took City of Glasgow College students on a Smogware dust collecting expedition. They collected dust from Anderson station and the M8.



Examples of workshops - from dust to design in City of Glasgow College.

Afternoon tea on National Clean Air Day, 15th June 2023 at the City Chambers with the Lord Provost as Host.



The ripple effects of hedgehogs

Barry Carmichael & Christine Calder, Dundee & Angus College

Climate Fresks & Confidence

Sarah Proctor & Scott Strachan, University of Strathclyde

Q&A

Quick resource overview

Becoming more nature and climate confident

What are your top resources? Feel free to share in the chat!



Climate Change & Net Zero

- ScotGov [Let's Do Net Zero explainer videos](#) on Net Zero and Climate Change – about 1 min
- Force of Nature [discussion guide for educators](#) around climate anxiety
- [Carbon Literacy Training](#)
- [Climate Fresk](#)
- How Bad Are Bananas [book](#) and [game](#)



Biodiversity & Nature

- [Explainer video by WWF](#) (with David Attenborough), 1 min, or by [Natural History Museum](#), 3 mins
- See resources for educators, including various activities, by worldwildlife.org
- Join [Hedgehog friendly campus initiative](#)
- Join [Nature Positive Universities initiative](#)



Waste & Pollution

- [WWF resources on plastic & oceans](#): Primary school focussed but easily adaptable
- [Ellen McArthur Foundation teaching resources](#) on circular economy
- [Subject to Climate: 5 ways to teach about air pollution](#) resources
- Zero Waste Scotland [Knowledge Hub](#) & Educational Resources (e.g. [food waste](#))



Teaching activities

- [Faculty for a Future's Seed Library](#)
- [EAUC's ESD toolkit](#)
- [EAUC Scotland pedagogy workshop](#)

Other

- [How to find a job that's good for you and the planet](#) – Green Careers Guide
- [LfS Scotland Bulletin](#)

A network diagram consisting of several nodes (small white spheres) connected by thin, light-colored lines. The nodes are arranged in a roughly circular pattern, with some lines crossing. The background is a dark, textured surface, possibly a wooden table, with a soft, out-of-focus light source creating a gentle glow around the nodes and lines.

Do keep sharing your top
resources in the chat.

All links will be shared as part of the follow up

Peer-to-peer conversations

Breakout rooms

Ice breaker: Introduce yourself and name one thing that have you taken from the event so far: e.g. something you learned or something you agreed or disagreed with.

Then freely choose which questions you want to discuss, or come up with your own:

- 1)** Do you think there are confident and less confident 'pockets'/clusters/people in your institution? Why are they more or less confident?
- 2)** Your thoughts about policy and wider support: what policies or guidance is out there, how useful/how widely used is it? Do we need more?

There are jamboards available to share your thoughts in written form.

ESD TSN Nov23 - Kathrin's room

1 / 3

← →

↶ ↷ 🔍 ▾ Set background Clear frame

What have you taken from the event so far?

example
post it -
share your
thoughts!

The image shows a digital workspace interface. At the top, there is a title bar with a logo on the left and the text "ESD TSN Nov23 - Kathrin's room". To the right of the title bar are navigation arrows and a page indicator "1 / 3". Below the title bar is a toolbar with icons for undo, redo, search, and a dropdown menu, followed by the text "Set background" and "Clear frame". The main workspace is divided into a left sidebar and a central canvas. The sidebar contains a vertical stack of icons: a pencil, an eraser, a mouse cursor, a document, an image, a circle, a text box, and a scissors. The central canvas contains the text "What have you taken from the event so far?" and a yellow sticky note with the text "example post it - share your thoughts!". Two blue arrows are overlaid on the image: one pointing right from the top navigation area, and another pointing right from the left sidebar.

Conclusions & final reflection