



World Congress of Soil Science 2022

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22 October 2021

**RE: Support the World Conference of Soil Science, Glasgow
31 July 2022 - 5 August 2022**

Dear Sir/ Madam,

On behalf of the International Union of Soil Sciences (IUSS) and the British Society of Soil Science (BSSS), it is our pleasure to invite you to the 22nd World Congress of Soil Science (WCSS). The congress will be held in Glasgow, Scotland, from **31 July – 5 August 2022**, and we hope that you will be able to join us for this international meeting.

The participation of the international community, of the diversity of knowledge, experience, and perspective they bring, is important to the success of the Congress and we wish to take this opportunity to invite our peers from IUSS member societies specifically. Despite the challenges surrounding Covid-19, this is the first major soil related event since Covid-19 and we expect over 3,000 international face-to-face participants, with the opportunity for those unable to attend in person to view hybrid content online.

The Congress is an excellent learning experience, exchange of knowledge and technical advances, as well as an opportunity to network with international leaders in soil science, related business, and governmental organisations.

The WCSS will take place over five-days at the SEC in Glasgow and will encompass a range of activities including keynote addresses, workshops, symposia, an indoor exhibition hall, tours and soil judging. In addition, and new to this Congress, an arts and cultural programme happening concurrently to the main event: 'Our Living Soil' will include exhibitions and art installations, digital storytelling and collaborative works with the local community.

To help you make sense of what is happening, and to make sure you get the most out of everything on offer, on the following pages you will find a handy guide detailing key dates, events, and contacts.

Yours sincerely,

Dr D. Bruce Lascelles

Chair of WCSS 2022 Working Group and President, British Society of Soil Science

Main Congress Details

World Congress of Soil Science Information	
Dates of Event	31 July 2022 – 5 August 2022
Location	Glasgow SEC
Concessions	Concessions available for low-income countries and Early Career Researchers. Please see the website for further information
Congress Website	www.22wcss.org
Congress Email	Wcss2022@speak.co.uk
Find us on Twitter	@WorldSoils2022
Find us on Facebook	British Society of Soil Science World Congress 2022
Registration Portal Link	www.22wcss.org/registration
Accommodation Information	www.22wcss.org/venue/accommodation/

World Congress of Soil Science Registration Information	
Registration Type	Dates Available
Early Bird	01/08/2021 – 15/03/2022
Regular	16/03/2022 – 23/07/2022
Onsite Registration	24/07/2022 – 05/08/2022

World Congress of Soil Science Registration Fees (In-person Attendance)			
Registration Type	Early Bird	Regular	Onsite
Full Congress Registration	£500	£700	£900
Concession	£300	£400	£500
Day Only	£200	£300	£400

World Congress of Soil Science Registration Fees (Digital Attendance)	
Registration Type	Price
Standard Online Only	£250
Concession Online Only	£150

Abstracts

World Congress of Soil Science Abstract Submission	
Abstracts Close	30 November 17:00 GMT
Notifications	31 January 2022
Abstracts Webpage	https://22wcss.org/conference/abstracts/
Contact Email	wcss22@soils.org.uk
Detail: Abstract submissions are invited for the Interdivisional sessions, the Divisional Scientific sessions, and the Working Group sessions. The convenors and chairs/vice chairs for each session will review the abstracts and propose the programme for oral and poster presentations.	

Tours

World Congress of Soil Science Tours Information	
Tours Webpage	https://22wcss.org/additional-activities/tours/
Tours Contact	Wcss22@soils.org.uk
Registration Close	24 June 2022
Cancellation Deadline	24 June 2022
Registration Portal Link	www.22wcss.org/registration

Tour 1. Pre- Congress Tour – Britain South to North

Description: The objective of this 6-day tour is to highlight just some of the diversity in Great Britain's mainland, whilst focussing on the ability of the local soils to sustain a variety of soil functions beneficial to society. Leaving from London, and weaving across the country before ending in Glasgow, this tour will visit 12 sites and view 19 soil exposures or sections, including varying forms of: Luvisols, Arenosols, Histosols, Stagnosols, Planosols, Cambisols, Phaeozems, Podzols, and Umbrisols. Themes to be discussed at the sites include:

- The 'classic'; long term experiments at Rothamsted Research and their implications for resilience of the local soils
- Fen peatlands in an area with regional drainage schemes: an unsustainable soil resource?
- Managing local agricultural soils to minimise soil structural problems and reduce the impact of agrochemical losses and rapid rainfall-runoff responses on local surface waters
- The impact on soil and atmospheric emissions from enhanced CO₂ levels in mature deciduous woodlands: A 10 year experimental monitoring project, unique in the northern hemisphere
- Managing local soils to support a Community-owned organic farm
- Management and conservation issues in the Tinto Hills, one of the best areas of active stone stripes in Scotland.

Tour Leader: Mr John Hollis

Now retired, John had 18 years soil surveying experience with the Soil Survey of England and Wales, eventually assuming national responsibility for soil classification and correlation. Although this remained within his remit, following the Soil Survey's move to Cranfield University and formation of the National Soil Resources Institute (NSRI), he specialised in soil hydrology and pollutant transfer and was part of the extended core group that developed the World Reference Base for Soil Resources.

Dates	25 July 2022 – 30 July 2022
Departure Location	London (Location TBC)
Finish Location	Glasgow SEC
Board Basis	Full Board
Price	£1900.00

2. Glasgow Tour - Impact of the city's Industrial Legacy, Urban Regeneration and Greening

Description: This tour will focus on the Clyde Gateway project in Glasgow, which aims to build on the legacy of the 2014 Commonwealth Games, in an area with a long history of industrial activity and subsequent stagnation. The Cuningar loop, which was an open coalmine and sand quarry, has been regenerated as an urban park as part of the legacy. There will also be a chance to visit the NERC shallow geothermal facility on site. Shawfield was, at its peak, the world's largest Cr-works and the comprehensive and extensive remediation work now being carried out will be reviewed. Wider issues of the sustainable use of urban and greening will be explored through a visit to the Hamilton Hill clay pit restoration project and its soil profile, and the Canal and North Gateway project.

Tour Leader: Dr Paul Everett (BGS) and Prof. Margaret Graham (Geoscience, Edinburgh University)

Paul is an environmental Geochemist with extensive experience of the Glasgow soils. Margaret is a chair in Environmental Geochemistry at the University of Edinburgh.

Dates	5 August 2022
Departure Location	Glasgow SEC
Finish Location	Glasgow SEC
Board Basis	Lunch provided
Price	£90.00

3. Stirling tour - Changing Environment: A Historical and Modern Perspective on Soil Use & Management along the Carse of Stirling

Description: This tour will look at soil development, use and management in and around the Carse of Stirling, an area subject to significant environmental changes over the last 8,000 years that has culminated in the installation of comprehensive drainage systems to create the more fertile farmland that we see today. Profiles in this land will be seen at Stirling University soil teaching pits where free-draining brown earths (Cambisols) and seasonally waterlogged Gleyic

soils are exposed in raised beach deposits and adjacent reddish glacial drift derived from Devonian sandstones. In recent times, peat was also drained to facilitate commercial peat extraction and forest plantations. Despite this extensive reworking of the landscape, the remains of peat bog domes around Flanders Moss are one of the most extensive intact raised bog sites in Europe with peat depth reaching over 7 metres in places. The National Nature Reserve and adjacent Forest Research site here will be visited showing restoration work to enhance biodiversity and increase carbon sequestration illustrating the changing value of peatland from a 'waste' to vital carbon sink.

Tour Leader: Dr Paul Adderley (University of Stirling) / Patricia Bruneau (NatureScot) with contributions from Forest Research

Paul is a soil science lecturer at the University of Stirling with interests in geoarchaeology and environmental history and Patricia is a soil science specialist with NatureScot, Scotland's Nature Agency.

Dates	5 August 2022
Departure Location	Glasgow SEC
Finish Location	Glasgow SEC
Board Basis	Lunch provided
Price	£100.00

4. Isle of Arran tour

Description: This full day excursion will visit the Isle of Arran focusing on the relationship between its landscape, geology and soils. The circular tour provides superb views of the changing coastline and dramatic mountains of this scenic island and includes a visit to the local Lagg Whisky Distillery. Soil aspects of the tour include a focus on the small-scale variation between raised bog (Histosols), Peaty (Histic) Gleysols and peaty (Histic) Podzols, and contrasting cultivated and uncultivated Stagnosols.

Tour Leader: Richard Hewison

Plant Ecologist, Soil Surveyor and Landscape Historian at the James Hutton Institute. Richard has been involved in soil survey in Scotland for around 10 years.

Dates	5 August 2022
Departure Location	Glasgow SEC
Finish Location	Glasgow SEC
Board Basis	Lunch provided
Price	£150.00

5. Boghall Glen tour. A tour to Boghall Glen on the Bush Estate

Description: This tour will visit the Bush estate in the Pentland Hills south of Edinburgh. These Hills, composed primarily of igneous rocks, have an elevation of between 200-600 metres. The area was glaciated during the last ice age, and the soils that have formed there since the retreat of the ice (about 10,000 years ago) are strongly influenced by this feature of their history. Bush

Estate hosts work by both the Centre for Ecology & Hydrology (CEH) and Scotland's Rural College (SRUC) and exemplifies the local complex patterns of Stagnosols, Cambisols and Podzols that occur in this upland area of south Scotland. All three soil types will be shown. The journey back to Glasgow takes in Castle Law, providing a panorama of the agricultural landscape of the Midlothians from the hills to the coast and, following a visit to Roslin Chapel, demonstrates the increasing encroachment of urban sprawl sealing off fertile agricultural land.

Tour Leader: Ute Skiba (CEH), Bob Rees (SRUC).

Dates	5 August 2022
Departure Location	Glasgow SEC
Finish Location	Glasgow SEC
Board Basis	Lunch provided
Price	£130.00

6. Post- Congress Tour – North Scotland

Description: This tour will examine the soils, landscape and both past and future land use in Northern Scotland and will visit some iconic cultural landscapes such as Glencoe, Loch Ness, the world-class landscape of the UNESCO North West Highlands Geopark. On the return leg we will view the Cairngorm mountain plateau, visit ancient Caledonian pinewood, travel through Speyside to the east coast where we will visit the James Hutton Institute's Climate positive farm at Glensaugh to examine how changes in land management are being developed to reduce the GHG emissions. We will then travel through the Howe of the Mearns through a landscape of red soils to the Hutton's Balruddery Research Platform and the Centre for Sustainable Cropping near Dundee.

Tour Leader: Ness Kirkbride (Quaternary Geomorphologist and Geo-conservationist, at NatureScot (Scotland's Nature Agency); **Patricia Bruneau** (Soil Scientist at NatureScot with experience in soil monitoring and sustainable use of soils) and **Allan Lilly** (former soil surveyor and biophysical resource analyst)

Dates	6 August 2022 to 9 August 2022
Departure Location	Glasgow SEC
Finish Location	Glasgow SEC
Board Basis	Full Board
Price	£1,000

7. Post- Congress Tour – Soil, Geomorphology and Landuse of Galloway [Scotland in Microcosm]

Description: This excursion will feature the rocks, quaternary glaciation, Holocene deposition and Anthropocene changes and their impact on the soils in the southern uplands of Scotland and on the Irish sea coast - a microcosm from the mountains to the sea. The theme is sustainability of agriculture and soils in the region; and the tension between agriculture and bio- and geodiversity. The current land use and agricultural products and practices and

anthropic land use evolution will be highlighted and discussed. The tour will visit the SRUC Crichton Royal farm where we will compare soil compaction and underlying soil structure under different soil types and management practices before moving on to the Cainsmore of Fleet National Nature Reserve, the Machars of Wigtownshire and taking in world famous golf links. We will view a wide range of soil developed on various soil parent materials from estuarine silts and clays, raised beach gravels, blown sands and glacial deposits.

Tour Leader: TBC

Dates	5 August 2022 to 8 August 2022
Departure Location	Glasgow SEC
Finish Location	Glasgow SEC
Board Basis	Full Board
Price per Person	£900

Soil Judging

World Congress of Soil Science Soil Judging Competition

Soil Judging Webpage	https://22wcss.org/additional-activities/soil-judging/
Tours Contact	Wcss22@soils.org.uk
Registration Close	TBC- Late Spring 2022
Dates	26 July 2022 – 31 July 2022
Location	Stirling University Campus
Board Basis	Full Board
Price	£3,500 per team of 4. Additional person(s) accompanying £875 each

Detail: This is an opportunity to demonstrate your skills, whilst enjoying some time away in Stirling, the historic “Gateway to the Highlands”. In teams of four you will spend time in training with some of the foremost experts in the field of soil science, before representing your country or region in competition at sites across scenic Scotland. With prizes presented on the opening night of the World Congress, during the prestigious opening ceremony, this is an accolade worth working for.

The British Society of Soil Science (BSSS) is hosting the 22nd WCSS on behalf of the International Union of Soil Science (IUSS), and the competition will include the high-level training including guest speakers, which is associated with this event.

Eligibility: All teams, and team members, must satisfy the conditions below to compete in the soil judging competition. If you have any queries, please feel free to contact the organisers on wcss22@soils.org.uk

- Teams will be made up of four members representing a single country
- At the time of competition all members of a team must be either:
 1. Resident in the represented country for a minimum of 6 months
 2. Registered at an academic institution based within the represented country

3. Be a national of the represented country
 - Countries are limited to only one team each
 - All competing team member must satisfy the following:
 1. All team members must be present for the entire competition
 2. All team members must be a registered student at the time of competition, or alternatively be a registered member of a recognised national youth organisation in a related field, for example young farmers' unions.
 3. Team members should not be employed in, or have been employed in in the six months prior to competition, a soil judging, interpretation, or analysis role.
 4. Team members must qualify as 'Early Career'; within the first five years of their career post-graduation.
 5. All team members must be eligible for entry to the United Kingdom on the date of competition