# Commonwealth Engineers' Council Overview March 2024

## Dawn Bonfield MBE FREng CEng FIMMM FICE



HonFIStructE FWES CEC President, 2023-2025



## Dawn Bonfield MBE FREng, Commonwealth Engineers' Council President (2023-2025)

- First female President of CEC
- Past President and CEO of Women's Engineering Society
- Founder of **INWED**, International Women in Engineering Day (23 June, annually)
- Inclusive Engineer! (and Materials Engineer)
- Professor, Engineering for Sustainable Development King's College London
- Royal Academy of Engineering Visiting Professor of Inclusive Engineering, Aston University





## Some History of the CEC

- Established in London in 1946 by the Institution of Civil Engineers and two other UK engineering organisations
- Originally called Commonwealth Engineering Conference, the conferences were held every 4 years
  - Johannesburg, South Africa 1950; London, UK 1954; Sydney, Melbourne and Canberra, Australia (including New Zealand) 1958; Montreal, Canada 1962; London, UK 1966
- In 1968 CEC were founding members of WFEO, the World Federation of Engineering Organisations, and from then meetings were held every 2 years to coincide with WFEO meetings
- In 1996, Queen Elizabeth II joined the CEC in the celebrations of their 50<sup>th</sup> anniversary







#### The Commonwealth in Context

- The Commonwealth's **56 Member Countries** span the globe and are multicultural and multiethnic
- Represents **2.5 billion people**, almost a third of the world's population. Its members comprise countries large and small from India (1.4bn) to Nauru (10,000).
- 31 of its members are small states, usually with a population well under 1.5 million, and 25 members are small island developing states with low ecological footprints
- More than 60 per cent of population aged 29 or under and 1 in 3 young people aged between 15 and 29 live in Commonwealth countries
- Half of the top **20 global emerging cities are in the Commonwealth**: New Delhi, Mumbai, Nairobi, Kuala Lumpur, Bangalore, Johannesburg, Kolkata, Cape Town, Chennai and Dhaka.



## The Commonwealth and Climate Change

- The Commonwealth represents nearly 15% of global carbon emissions
- Within the Commonwealth, top greenhouse gas emitters include India, Canada, Australia, South Africa, UK and Pakistan.
- 12 least developed countries (LDCs) of the Commonwealth are particularly vulnerable to climate change
- Climate-related disasters have killed 47,000 people, affected 671 million and caused US\$189 billion in damages
- Sea level rise affects 47 out of 54 Commonwealth countries that have a coastline, including 25 small island developing states also known as 'Large Ocean States'- where, on average, 96 per cent of territory is ocean and only 4 per cent is land.
- It has been agreed that developed countries will mobilise US\$ 100 billion per year in climate finance to support developing nations.



## Membership

#### Full Members

Association of Professional Engineers, **Trinidad and Tobago** (APETT); Engineering **New Zealand**; Engineers **Fiji**; Institution of Engineers, **Pakistan**; Institution of Engineers **(India)** (IEI); Institution of Engineers, **Malaysia** (IEM); Institution of Engineers, **Singapore**; Institution of Engineers **Mauritius**; **South African** Institution of Civil Engineering; Institution of Engineers, **Kenya**; Institution of Engineers, **Rwanda**: Institution of Civil Engineers, **UK** (ICE); **Pakistan** Engineering Council; **South African** Institute of Electrical Engineers; **Sierra Leone** Institution of Engineers; **Uganda** Institution of Professional Engineers; **Zimbabwe** Institution of Engineers; Engineering Council of **Zimbabwe**.

- Associate Members
- Individual (Corresponding) Members



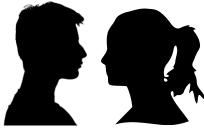














Paul Jowitt, UK, Immediate Past President
Pratarp Singh, Fiji, Pacific Regional Representative
Valerie Kelsick, Trinidad and Tobago, Caribbean and the Americas Regional Representative
Navin Vasoya, India, Asia Regional Representative
Kirils Holstovs, UK, Europe Regional Representative
Trudy Morgan, Sierra Leone, Africa Regional Representative
Merv Lindsay, Australia, Liaison for South Pacific Engagement
Yashin Brijmohan, South Africa, Chair of Engineering Education and
Professional Development Working Group
Chris Chukwunta, Commonwealth Sustainable Cities Initiative Representative







Dawn Bonfield, UK, President

https://www.commonwealthengineers.org/board-members.html









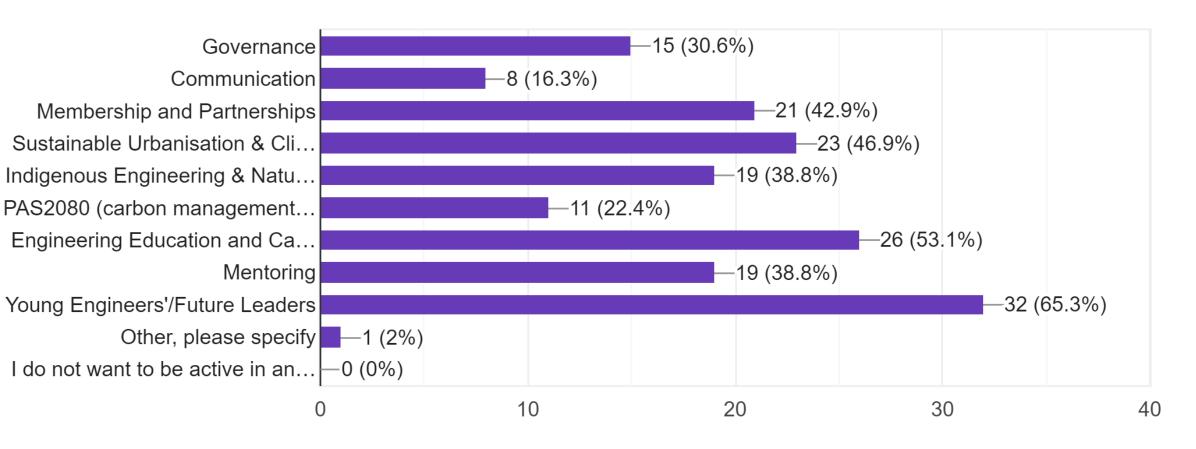
## Our focus areas for 2024

- Engineering solutions to climate change for Small Island Developing States and vulnerable countries
- Sustainable Urbanisation and best practices related to rapid urban planning
- Indigenous Engineering how to ensure local people, materials, and skills are prioritised in engineering work, including nature-based solutions
- Adopting and sharing common standards and best practices
- Sustainable materials and global supply chain implications
- Engineering education and professional capacity building
- Advocacy and representation



Do you want to be active in one of our activities? Please indicate which area you're most interested in:

49 responses





## Possible Structure

**Steering Group** 

Working Group 1 (e.g. comms, graphics, social media, membership)

Working Group 2 (e.g. specific projects)

Working Group 3 (e.g. policy, legislation)

Working Group 4 (Membership, mentoring

Indigenous Engineering

Kigali Commitment
Sustainable
Urbanisation

Others



## Next Steps

- Identify two co-leads to steer the group and establish a working structure
- Deliver the Action Plan
- Create other activities according to interests of the group



## **CEC Objectives**

#### **Strategic Objectives**

- Exchange of information and Knowledge Transfer
- Training and capacity building in Education and Professional Development
- Mobility/exchange of Engineers
- Promote Ethics, Equity, Diversity and Inclusion
- Identify gaps in knowledge or standards and work to fill them
- Specific Projects (e.g. sustainable urbanisation, indigenous engineering etc)
- Communication and Engagement
- Identify legislation and policy change

#### **Internal Objectives**

- Increase membership
- Continued Commonwealth affiliation
- Good governance
- To grow our membership; to continue our affiliation with the Commonwealth Secretariat; and to be compliant with the good governance procedures and practices.



#### CEC Action Plan V1 2023-2025

rategic	Action	2023						20												_	25				_
riority		Dec	Jan	Feb	March	April	May	June	July	Aug 5	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	No
hare Kno	wledge																								
	Organise four webinar per year to share knowledge on topics of choice, including indigenous Engineering and		٥			a																		٥	П
1.1	Nature Based Solutions		9			9			l °			*						l °			Ŷ			٧	
1.2	Create series of podcasts as a means of sharing knowledge				0						0						0						0		
	Share and signpost knowledge and information through website, twitter, Linkedin, email, Whatsapp, in-person,																								
	and any other mechanism available																								
1.4	Attend WFEO meetings and cascade relevant information to members of CEC				0	->						0					0							0	$\overline{}$
	Attend International Events (CHOGM, COP, etc) and share information with CEC members	0							-	$\overline{}$	$\neg$	٥	٥	$\neg$				-	-	-					0
	Share PAS2080 standard with CEC colleagues to promote sustainable urbanisation and the Kigali Commitment																								
				$\overline{}$				-	$\overline{}$	$\overline{}$	$\neg$	$\neg$	$\neg$	$\neg$	$\overline{}$			$\overline{}$	$\overline{}$	$\overline{}$				$\neg$	$\overline{}$
d 3. Can	acity Building Towards Professional Registration and Engineering Education																								
a se cup	Grow and retain membership from professional registration bodies in Commonwealth Countries in order to									-	$\neg$		$\overline{}$	$\overline{}$		$\overline{}$		-	-	-			$\overline{}$	$\neg$	$\vdash$
	strengthen the conversarions and knowledge sharing around capacity building for professionalism										- 1														1
6.4	Create partnerships where appropriate and where requested to help member institutions to develop their							=	_	_	-	_	_	_	_										
2.2	professional registration and accreditation																								П
2.2		_		-				=	-	-	-	_	-	_	=			-	-	-			_	-	
	Develop and support the activities of the Standing Committee on Engineering Education and Professional																								П
	Development through Exec Board member Yashin Brijmohan as chair			-	_	_		_		_	_	_	_	_					-	-					Е
	Deliver webinars or events on engineering capacity building, specifically a 2024 online conference planned for				0						- 1														1
	March 2024					_	$\vdash$	_	_	$\rightarrow$	_	_	_	_	_	$\overline{}$	_	_	-	-	_		$\overline{}$	_	-
2.5	Consider establishing a CPD certification programme that can be applied to CEC webinars		$\vdash$	-	_	_																			
	Develop a series of CPD related online content webinars to support the professional registration of engineering																								
	graduates, including on topics such as Ethics, Global Responsibility, Sustainability, Equality, Diversity &																								
2.6	Inclusion, Risk etc			_																					
	Scope and potentially roll out a mentoring programme for individuals to support graduate engineers transition to																								
2.7	professional registration, and retention of engineering professional qualification																								
	Continue an involvement in relevant WFEO committees through CEC membership and cascade relevant																								
2.8	information to CEC members																								
																									Г
tive 4: F	Promote Ethics, Equity, Diversity & Inclusion																		Т						Г
4.1	Promotion of partner project Sibo the Engineer to increase the take up of engineering amongst young women																	-	-	-				$\neg$	г
	Continue to promote the values and practices of good practice in Ethics, Equity, Diversity and Inclusion, and zero							=			_		=	=											-
	corruption - both in our industry and in the built environment - across our membership and partner																								ш
	organisations																								ш
	Ensure equitable voice in decision making for all members of the CEC, and comply with the Leave no one behind	_						=	_	-	_	=	_	_	=		_	-	_	_	_	_	=	_	
	ethos in all of our work																								ш
	Adopt the ethics code developed by WFEO and promote to our membership	_	_	_	_			=	_	_	_	=	_	_	=			-	-	-	_	_	=	_	
4.4	Application code severaped by MT to and promote to dol membership								-	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	_					_	_			_	$\overline{}$	Е
tive 5: I	Deliver Projects and Impacts									$\overline{}$	-		$\neg$						-	-			-	$\neg$	т
	Form and nurture partnerships with CEC members and other organisations who share common interests,							_		_	_	_	_	_	-	$\overline{}$		-	-	-			-	_	Н
	including WFEO, Association of Commonwealth Architects, Commonwealth Association of Planners, Association																		1					- 1	
	of Commonwealth Universities, the International Coalition on Sustainable Urbanisation (ICSI), the Federation of																		1					- 1	
	African Engineering Organisations (FAEO), and the Princes' Trust																		1					- 1	
					_			_	-	-	-	_	_	_	_			_	-	-	_	_	_	_	⊨
	Use members and partnerships to develop projects of relevance to CEC members including the promotion of																								w
	sustainable urbanisation, education capacity building and professional development of engineers, and the																								ш
	promotion of engineering solutions throughout the Commonwealth		ш	_						-	_													_	
	Develop outcomes and impact in response to the Kigali Commitment for sustainbable urbanisation, signed in										- 1		- 1						1					- 1	
	2022, including the focus on indiginous engineering and localised solutions, and the promotion of the PAS2080										- 1								1						
	standard		ш		$\perp$				_	$\perp$	_	_	_	_				$\vdash$	_	$\vdash$			ш	_	┺
	Partner with WFEO on the Small Island Developing States project																								
	Continue involvement in the Commonwealth Youth for Sustainable Urbanisation and Commonwealth Sustainable																								Г
5.5	Cities Initiatives through CEC Member involvement														Ш	Ш									L
5.6	Develop other relevant projects and campaigns as and when possible																								П
5.7	Establish and support sub-committees where appropriate for delivering relevant projects																								П
	Attend relevant International events including COP meetings, CHOGM, and WFEO meetings in order to engage and	COP28			WFEO						-	HOGE					WFEO							WFEO	
	influence	curat			WTEG	1						nus	APP CO				WTEU	1						WFEG	r
																									Г
ctive 6:	Good Governance																							$\neg$	Г
																									Œ
	Ensure compliance with CEC constitution. Continue the relationship with the pro-bono solicitor established in																								
	Ensure compliance with CEC constitution. Continue the relationship with the pro bono solicitor established in October 2023 to review the CEC constitution and make any changes recommended			_																					۳
6.1	October 2023 to review the CEC constitution and make any changes recommended							=	_	-		=	-		0			0	_		0			0	г
6.1	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution		0		-	0			0			ô	- 1											-	_
6.1	October 2023 to review the CEC constitution and make any changes recommended Create a Rules of Procedure document to deliver the Constitution Deliver newsletter to CEC members quarterly		0		Е	0			0	$\overline{}$		¢	-		Ť								$\vdash$	- 1	1
6.1 6.2 6.3	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution  Deliver newsletter to CEC members quarterly  Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of		0	F	F	0	F		0	H		o	$\dashv$		Ì			Ì							
6.1 6.2 6.3	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution  Deliver newsletter to CEC members quarterly  Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of  Engineering Organisations election to their Executive Council		0			0			0			0			Ť			Ì						0	
6.1 6.2 6.3 6.4 6.5	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution  Deliver newsletter to CEC members quarterly  Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of Engineering Organisations election to their Executive Council Hold a General Assembly in conjunction with the WFEO meetings		0			0			0						Ť			Ì						0	
6.1 6.2 6.3 6.4 6.5	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution  Deliver newsletter to CEC members quarterly  Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of  Engineering Organisations election to their Executive Council		0			0			0															0	
6.1 6.2 6.3 6.4 6.5 6.6	October 2023 to review the CEC constitution and make any changes recommended Create a Rules of Procedure document to deliver the Constitution Deliver newsletter to CEC members quarterly Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of Engineering Organisations election to their Executive Council Hold a General Assembly in conjunction with the WFEO meetings Continue the process of seeking funding to support the activities and objectives of CEC		0			٥			0															0	
6.1 6.2 6.3 6.4 6.5 6.6	October 2023 to review the CEC constitution and make any changes recommended Create a Rules of Procedure document to deliver the Constitution Deliver newsletter to CEC members quarterly Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of Engineering Organisations election to their Executive Council Hold a General Assembly in conjunction with the WFEO meetings Continue the process of seeking funding to support the activities and objectives of CEC 7: Effective Communication		0			0			0															٥	
6.1 6.2 6.3 6.4 6.5 6.6	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution  Deliver news letter to CEC members quarterly  Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of  Engineering Organisations election to their Executive Council  Hold a General Assembly in conjunction with the WFEO meetings  Continue the process of seeking funding to support the activities and objectives of CEC  7: Effective Communication  Establish mechanisms and empower resources to ensure that we maintain regular contact with members and the		0			0			0															٥	
6.1 6.2 6.3 6.4 6.5 6.6	October 2023 to review the CEC constitution and make any changes recommended Create a Rules of Procedure document to deliver the Constitution Deliver newsletter to CEC members quarterly Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of Engineering Organisations election to their Executive Council Hold a General Assembly in conjunction with the WFEO meetings Continue the process of seeking funding to support the activities and objectives of CEC 7: Effective Communication		0			0			0															0	
6.1 6.2 6.3 6.4 6.5 6.6	October 2023 to review the CEC constitution and make any changes recommended  Create a Rules of Procedure document to deliver the Constitution  Deliver news letter to CEC members quarterly  Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of  Engineering Organisations election to their Executive Council  Hold a General Assembly in conjunction with the WFEO meetings  Continue the process of seeking funding to support the activities and objectives of CEC  7: Effective Communication  Establish mechanisms and empower resources to ensure that we maintain regular contact with members and the		•			0			0															0	
6.1 6.2 6.3 6.4 6.5 6.6 ective	October 2023 to review the CEC constitution and make any changes recommended Create a sales of Proceder a Goostment to deliver the Constitution Deliver newsletter to CEC members quarterly Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of Engineering Organisations election to their Executive Council Hold a General Assembly in conjunction with the WFEO meetings Continue the process of seeking funding to support the activities and objectives of CEC  7: Effective Communication  Establish mechanisms and empower resources to ensure that we maintain regular contact with members and the wider community through quarterly newsletters, email communications, Whatsapp messaging, and other media where relevant, including maintaining the CEC website		٥			۰			0															٥	
6.1 6.2 6.3 6.4 6.5 6.6 ective	October 2023 to review the CEC constitution and make any changes recommended Create a Rules of Procedure document to deliver the Constitution Deliver nevalister to CEC members quarterly Establish a timeline for Executive Board Elections to be compliant with timescales of the World Federatio of Engineering Organisations election to their Executive Council Hold a General Assembly in conjunction with the WFEO meetings Continue the process of seeking funding to support the activities and objectives of CEC  7: Effective Communication  Establish mechanisms and emgower resources to ensure that we maintain regular contact with members and the wider community through quarterly nevaletters, email communications, Whatsapp messaging, and other media		٥			٥			0															٥	



#### Activities from the Action Plan

- Organise regular Webinars to share knowledge
- Podcasts (Voices from the Commonwealth)
- Social Media and Comms (X and LinkedIn)
- Representation on behalf of CEC at events or on partner organisations
- International Events Attendance (CHOGM, COP)
- Identifying & Sharing Relevant Standards
- Country representation (e.g. Nigeria young person representative)
- Partnerships Manager
- Support Exec Board Functions and Working Groups
- Secretariat Support

- Conference
- CPD structure/certification
- CPD Events and Training
- Mentoring Programme organise and run
- Schools outreach with Sibo the Engineer
- Project work
- Education/capacity building
- Campaigns
- Surveys
- Governance
- Conference planning
- Newsletter Editor

## Possible Areas of Engagement

 The following slides represent possible areas of engagement for the Young Engineers / Future Leaders



## Mentoring

- Gap identified between graduation and professional registration
- Especially for women



## Progressing the Kigali Commitment

On June 22, 2022, leaders from several Commonwealth architecture, engineering and planning associations came together to consider how they can contribute to implementation of the <u>Call to Action on Sustainable Urbanisation across the Commonwealth</u> and resolved to commit themselves to work together in a multi-disciplinary collaboration:

- 1. To champion and ensure that sustainable urbanisation and climate action (mitigation and adaptation) is at the heart of our common future, and is firmly rooted in Built Environment Professions (e.g., Architecture, Engineering, Planners, Economists, Surveyors, Environmental Specialists, and Finance Experts, etc.) ethics, standards, principles, data, and policies;
- 2. To develop and promote a Commonwealth dialogue in our respective jurisdictions and networks to define and implement a new way of working towards transparent and accountable multi-level governance, sustainable urbanisation, and climate action;
- 3. To lead the development of new partnerships and strategies within and between the public, private, and not-for-profit sectors, and at all levels of government to achieve a Commonwealth-led response to the challenges and opportunities of sustainable urbanisation and climate change;
- 4. To come together between and at Commonwealth Heads of Government Meetings to review progress and to look for further opportunities to take practical action to address sustainable urbanisation, climate change, and the Sustainable Development Goals.
- 5. To promote and celebrate the Built Environment Professions as experts in sustainable urbanisation and in taking climate action, and to jointly advocate for the Call to Action to Commonwealth Heads of Government and other associated international organisations.
- 6. To invite the Presidents of all Built Environment Professionals to engage in and implement the Call to Action on Sustainable Urbanisation.



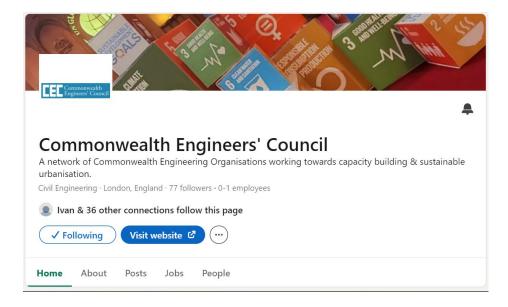
## Commonwealth Engineering Conference Organisation

 Replicate our original purpose by organising an online whole day conference



#### Social Media and Comms

- Website <a href="https://www.commonwealthengineers.org/">https://www.commonwealthengineers.org/</a>
- Twitter @Commengcouncil
- LinkedIn
- Newsletter







## Podcast / Webinar Series / CPD Certification

- Voices from the Commonwealth
- Webinar series
- CPD certificates for those who attend



## A Campaign

Organise a Campaign or Survey



## Policy White Paper for CHOGM

- CHOGM Samoa in October 2024 gives opportunity for engagement with Commonwealth leaders
- White paper is being proposed
- The theme for Commonwealth Day 2024, and the forthcoming Commonwealth Heads of Government Meeting, is 'One Resilient Common Future: Transforming our Common Wealth'.



## Photograph / Image Gallery

- Photos showing climate change and engineering solutions from around the Commonwealth
- Including Indigenous Engineering





## Country Representation

- Ideally would like one representative per country to be the go-to contact for information on each country
- Help with the statistics/information gathering on numbers of qualified engineers, numbers of women engineers, status of professional registration and accreditation, and development need
- Also image gallery to pull together images of impact of climate change and engineering solutions



#### BEPIC and COP29

- Built Environment Professionals in the Commonwealth
- CAA Commonwealth Association of Architects
- CAP Commonwealth Association of Planners
- CASLE Commonwealth Association of Surveying and Land Economy

Organise a Commonwealth BEPIC event at COP29



## Fundraising

- CEC has no funds!
- Fundraising to enable people to travel, attend events, as well as cover our cost of membership of WFEO



#### Governance

- Commonwealth has a constitution but this will need changing in light of the formation of the Company
- Rules of Procedure are currently missing to convert the constitution into a workable set of procedures
- Policies?



## University / Student Exchange

- Work with Association of Commonwealth Universities (ACU) to join students up across Commonwealth Universities
- Establish a Commonwealth Student Engineers network
- Create a project for students based on a real Commonwealth problem



## Membership

- Increase membership
- Aim to get all Commonwealth countries in the CEC network
- Increase numbers of individual members



## Representation

- Represent CEC on other groups
- e.g. CYSU Commonwealth Youth for Sustainable Urbanisation
- Represent CEC Youth as part of the National Member Organisation



## Small Island Developing States

- Increasing amount of work with SIDS on capacity building / accreditation
- Opportunity for CHOGM in Samoa in October 2024



#### Outreach

- CEC is a partner on the Sibo the Engineer project run by Michelle Maphosa from Zimbabwe
- Opportunity to get involved with this project
- Or other outreach to schools / young people





## My CEC Contact Details

Dawn Bonfield MBE FREng CEng

dawnbonfield@btinternet.com

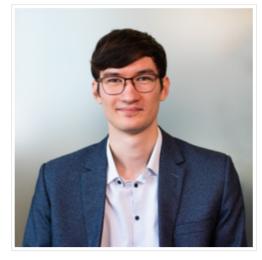
@commengcouncil

www.commonwealthengineers.org

Commonwealth Secretariat: Katie Momber, CEC@ice.org.uk



#### Kirils Holstovs



Kirils Holstovs Regional Representative of Europe

Kirils Holstovs is a civil & structural engineer at AECOM specialising in inspections and assessments of bridges, as well as carbon management of infrastructure, co-leading strategic work on decarbonisation of bridge design and asset management. Kirils has also been involved as a stakeholder engagement coordinator and a project co-coordinator for a major international project, as a part of AECOM sustainability consultancy services. Kirils volunteers as a co-lead of the World Federation of Engineering Organizations (WFEO) Young Engineers / Future Leaders' Working Group on Climate Action, which elevates the voice of young engineers in decision-making and develops climate policy initiatives, capacity-building events and partnerships to advance climate action and sustainable

development. He took part in COP26 and COP27 as a negotiations observer, speaker and side event lead organiser. He was a co-initiator and co-author of the COP26 Joint Statement of International Youth Organisations, which provided 12 key climate policy recommendations that were co-signed by some of the most influential international youth organisations and shared with all COP Parties. Kirils also was a delegate at the Pre-COP26 UN Youth4Climate summit and agreed adoption of several key infrastructure policies in the Youth4Climate manifesto that was shared with all COP26 Parties. Kirils actively volunteers with the Institution of Civil Engineers, where he has the roles of the Climate Change Representative of the ICE North East [England] regional committee and a member of the Carbon Champions review panel.

#### Michelle Meaclem



Co-lead WFEO Young Engineers/Future Leaders Working Group Michelle is a Civil Engineer at Tonkin + Taylor New Zealand with over 5 years' experience across civil and stormwater design, climate resilience, and water infrastructure advisory. Michelle is a Commonwealth Engineers Council President's Future Leader and is a passionate advocate for aligning the infrastructure sector to climate targets and the inclusion of young people, especially those in STEM, in climate policy making. She does this through her roles as the co-lead of the World Federation of Engineering Organisations' Young Engineers/Future Leaders' Working Group on SDG13: Climate Action (Working Group) and a Steering Committee member of the Commonwealth Youth for Sustainable Urbanisation network. In 2023, Michelle was a COP28 International Youth Climate Delegate and a finalist for Young Engineer of the Year.

