



**Federation of Engineering Organizations
Committee on Engineering and the Environment – 2019-2023**

**Teleconference – Thursday 15th October 2020
13:00 – 15:00 UK Time (BST, GMT+1)**

Meeting notes

	Subject	Action
1	<p>Introductions</p> <p>Davide Stronati, Chair of the Committee on Engineering and the Environment, welcomed the group and introduced the agenda. This meeting, combined with the latest September meeting, is in place of the scheduled conferences in Kigali.</p> <p>Members in attendance:</p> <p>Amable Esparaza (Instituto de la Ingenieria de España) Christine Ogut (Institution of Engineers of Kenya) Csae Gxd (Chinese Society Agriculture and Engineering and CAST) David Lapp (Engineers Canada) Diana Lezcano (Bochum Technical University) Frias Bou Diab (WFEO YE/FL committee) He Jing (China Association for Science and Technology) Kwabena A. Agyepong (Ghana Institution of Engineers) Lylían Coelho Ferreira (Ingénieurs et Scientifiques de France) Martin van Veelen (Federation of African Engineering Organisations) Milda Pladaite (WFEO YE/FL committee and European commission) Pan Li (CIT Secretariat) Pieter Wiekeradel (Netherlands International Federation of Municipal Engineering) Richard Coakley (Institution of Civil Engineers UK) Sandra Andreu (SUEZ) Soe Myint (Federation of Myanmar Engineering Societies) Tri Ratna Bajracharya (Nepal Engineers' Association)</p> <p>WFEO staff in attendance:</p> <p>Gong Ke (President) Jacques de Mereuil (Executive Director) Ivan Juiz (Webmaster) Marlene Kanga (WFEO Past President)</p> <p>ICE staff in attendance:</p> <p>Rob Curd Katie Momber</p>	
2	<p>Summary of 2019-2020 achievements and plans for next year</p> <p>Davide Stronati (DS) presented a PowerPoint summary of the CEE's achievements</p>	



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	<p>so far and actions going forward. Objectives for the four years are:</p> <ol style="list-style-type: none"> 1. Increase membership of the CEE 2. Increase activity and engagement of CEE members 3. Engage with players from industry and business, and governments and public sector 4. Produce quality outputs on climate change mitigation and adaptation drawing best practice from around the world 5. Raise visibility of CEE and WFEO <p>Over the last year, we have created a team and planted the seeds of projects and outputs we wish to harvest next year. A key milestone will be COP26, and we hope to expand the relationship with the UNFCCC.</p> <p>Important points to note:</p> <ul style="list-style-type: none"> • There are ten new members of the CEE • This is the fifth meeting of 2020 • We have been engaging with the other STC's, and the WFEO Working group on Water • We have also been engaging with the signatories of the WFEO Declaration on Climate Emergency • The CEE has invited and hosted external speakers to meetings • There are ongoing projects in the Mitigation and Adaptation themes • WFEO has published a position statement on post Covid-19 recovery (build back better) • The CEE is preparing an action committee for COP26 • We aim to make full use and contribute to WFEO website and WFEO social media <p>WFEO 'postcards' project update</p> <p>Katie Momber (KM) gave an overview of a new project whereby she will be interviewing members from the CEE for some 'postcard' resources. The aim is to produce some visually pleasing outputs that will give an overview of how different countries and PEI's understand climate change and SDG13 as an issue.</p> <p>The objectives of the 'postcard' resources are as follows:</p> <ol style="list-style-type: none"> 1. To obtain a snapshot of how different international Professional Engineering Organisations (PEIs) understand climate change as an issue. 2. To understand what the PEIs believe are the main climate change-related threats and how these might be solved through adaptation and mitigation efforts, and through their own work. 3. To gain insight into what the PEIs feel are the main barriers to combating negative climate change effects in their country. 4. To investigate how engineering perspectives of climate change differ throughout WFEO member countries. <p>The next step is to organise 20 30-minute interviews with members of the CEE to explore this theme. We now have found a designer to create the graphics for the</p>	



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	<p>resource and have confirmed the questions. Action: KM to reach out to members and share interview questions beforehand.</p> <p>Marlene Kanga (MK) noted that the @WFEO feed is now on the home page, and also it would be a good idea to produce postcards for World Engineering Day 2021 in March.</p>	KM
3	<p>Presentation from Sandra Andreu, Chief Marketing and Innovation Officer – Europe Direction, SUEZ</p> <p>SUEZ has aligned all of their efforts of innovation with the value proposition of the group: 100% sustainable solutions. Innovation topics are:</p> <ul style="list-style-type: none">• Health and quality of life• Positive impact on climate• Positive impact on natural capital• Circular economy• Positive social impact <p>Some examples from Sandra's presentation on these topics:</p> <p>Much innovation has focused on wastewater treatment plants. For climate, there is a focus on adaptation and mitigation. Reuse of wastewater has been a large project, transforming this into drinking water, and water for industry and agriculture. This has happened through the development of new treatments. A new 100% circular wastewater treatment plant has been built in Chile, with no negative impacts on climate. A new green/social bond was also created for this facility. In addition, new infrastructure has been developed for water storage in various other countries.</p> <p>SUEZ is also working on carbon capture and storage, for example redirecting carbon to areas it can be useful like in tomato growing.</p> <p>Nature-based solutions are being explored in water treatment and other areas, with facilities in France and China.</p> <p>In order to recycle more types of plastic, SUEZ is testing chemical recycling, and also looking into how these plastics can be reused in industry such as automation. There have also been collaborations with local communities, to avoid materials going into landfill that could be reused.</p>	
4	<p>Presentation from Milda Pladaite and Firas Bou Diab, WFEO Young Engineers / Future Leaders Committee</p> <p>Firas Bou Diab (FBD) gave an overview of the WFEO YE/FL committee, who aim to promote the global voice for young engineers and create an international network. The YE/FL committee would like to collaborate with the CEE in promoting the Sustainable Development Goals.</p> <p>Milda Pladaite (MP) presented a proposed project: SDG13 working group. The aim of this working group would be to establish how young engineers can contribute to SDG13 by sharing information and developing skills, with a focus on developing countries. Working together with senior professionals and external organisations, this working group would engage and create a pool of information about climate action work by the YE/FL committee, and define a climate action strategy. The</p>	



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	<p>Climate Declaration signatories could be a starting point for engaging organisations.</p> <p>Action: A member of the YE/FL committee could attend CEE meetings to be the link between the two groups. If there is a UK member of the YE/FL they could assume this role.</p>	MP
5	<p>Updates from Theme Leaders</p> <p><u>Climate Change Adaptation Task Group - Darrel Danyluk</u> Darrel Danyluk (DD) was unable to make the call, David Lapp (DL) updated that he is now the representative from Engineers Canada, supporting DD on adaptation and the Sustainable Development Code of Practice. It will be important now to make other national members aware of these codes.</p> <p>Action: Elevate the codes of practice so they are more visible on the WFEO website. An email from Davide to national members about distributing the codes to members would also be useful.</p> <p>Action: Potentially update the codes of practice and relaunch these.</p> <p>Action: Collect examples of the application of these principles, and gather international examples from WFEO members to add to the course.</p> <p>Action: KM to circulate the promotional materials for the course.</p> <p>Action: Please can all comment on Darrel’s draft document which talks about the framework convention on climate change, gives some background information, and throws up some ideas on what must be done. It focuses on the two meetings in 2021, the subsidiary body meeting in May/June, and COP26 in November. The document outlines thoughts on what we need to do, as we have an opportunity through ICE to put forward a strong WFEO program at COP, similar to in Paris.</p> <p><u>SDG 6 Representative – Kwabena Agyepong</u> Kwabena Agyepong (KA) reiterated the difficulty in obtaining responses from PEIs on SDG progress, and also noted that the targets and indicators were not written by engineers, so it is difficult to define a methodology to monitor progress. He also stressed the importance of best practice globally to understand how we can achieve the 2030 targets. It will be useful to have global definitions that all can follow. MK suggested collaborations with other STCs.</p> <p><u>SDG 9 Representative – Lylian Coelho Ferreira</u> Lylian Coelho Ferreira (LCF) presented her KPI innovation project, and showed the group how SUEZ maps onto SDG9 targets. This matrix is attached to these notes.</p> <p>Action: CEE to comment on the matrix Lylian has been working on.</p> <p><u>Climate Change Mitigation Task Group – Jing He and Jianping Wu</u> Jing He (JH) presented the project entitled <i>Climate Change Mitigation and Innovations</i> on behalf of Jianping Wu (JW). This presentation is attached to these</p>	<p>KM/DS</p> <p>ALL</p> <p>ALL</p> <p>KM</p> <p>ALL</p> <p>ALL</p>



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	<p>notes.</p> <p>Action: JW has requested a letter from WFEO or WFEO CEE to show this is a WFEO project. Based on this letter, we can find funding to support the teams work on this project.</p> <p>Action: Davide to review the plan for a pilot study.</p>	<p>DS</p> <p>DS</p>