



**World Federation of Engineering Organizations  
Committee on Engineering and the Environment – 2015-2019**

**Face-to-Face Meeting No. 9, Saturday 3rd December 2016  
Room A-B, CIP Building, Av. Arequipa 4947, Miraflores, LIMA, Peru**

**Summary Minutes for Circulation to CEE**

<b>Item</b>	<b>Minutes</b>	<b>Action</b>
1	<p><b>Welcome and Introductions,</b> The Chairman welcomed everyone to the meeting, her first in the chair.</p> <p>She wished to stress at the outset her and the Committee's thanks to her predecessor, Darrel Danyluk, for all his important work over the previous 8 years.</p> <p>The Chairman explained the structure and timescale of the agenda, and the agenda was accepted. No items of other business were identified at this stage. She also explained that, until such time as the Institution of Civil Engineers were able to provide the anticipated secretariat support, her husband and business partner Roger Venables had agreed to act as CEE's Honorary Secretary.</p> <p>The Chairman's final point of introduction was to request active participation from all members and the importance of keeping in touch with her and the secretariat. Such contact is very important for making progress during the year.</p> <p>The Honorary Secretary completed the introductions by asking all attendees to give him their contact details, either with a business card or by adding to or amending his CEE Contacts Spreadsheet made available in the meeting room.</p>	<p>ALL MEMBERS</p> <p>ALL ATTENDEES</p>
2	<p><b>Review of Actions agreed at Face-to-Face Meeting 8 in Kyoto</b> The Actions, and ideas to be followed up, had been highlighted in the Minutes by the Hon Secretary. The chairman commented as follows.</p> <ul style="list-style-type: none"><li>• The actions highlighted points in 4.3 Collaboration with the World Meteorological Organization (WMO) and 4.4 United Nations Framework Convention on Climate Change will be covered in Item 5.1 of this agenda.</li><li>• The note in section 4.5 of the Minutes on the WFEO-UN Relations Committee (WURC) is updated by the note on the Lima meeting of WURC included as Appendix 1 to the Committee's edition of these minutes.</li><li>• Er Tan indicated that he will progress with the CEE Chairman and other the action in Section 5 of the minutes on the regional work he reported in Kyoto, by sharing experiences from other geographic zones in these subjects in a more structured way through workshops and webinars.</li><li>• The action in Section 6 on the WFEO CEE Newsletter would be covered under item 8 of the Agenda (item 9 of these Minutes).</li></ul>	<p>RKV</p>



Item	Minutes	Action
	<ul style="list-style-type: none"><li>• The comments in Section 8 and in the Theme 1 notes in Section 9 of the Minutes on SDGs are covered below the review of the strategy item 9 of the Agenda (item 8 of these Minutes).</li><li>• The comments in the Theme 5 notes in Section 9 of the Minutes are covered below the review of the strategy item 9 of the Agenda (item 8 of these Minutes).</li></ul>	
3	<p><b>Meeting Summary adoption</b></p> <p>The Summary of the Face-to-Face Meeting No. 8, 28 November 2015 held in Kyoto and prepared by David Lapp of Engineers Canada was accepted by the Committee, following a proposal by Darrel Danyluk seconded by Seng-Chuan Tan.</p>	
4	<p><b>CEE Chairman's Overview Report</b></p> <p>The Chairman's summary reported had been included in the Agenda book, and she reviewed the key points to the Committee.</p> <p>It was agreed that, in relation to the first four sub-headings under this Agenda Item, the Honorary Secretary would report appropriately in the Minutes, which he does as follows.</p> <p><b>4.1 The WFEO Executive Board Meeting in March 2016</b> considered a range of matters but none had a specific connection with the CEE.</p> <p><b>4.2 The Standing Technical Committee Chairs</b> meet as a group each March in Paris and at each annual meeting. They do not form a formal Committee of WFEO. The principle matters concern cooperation and collaboration between STCs on related or overlapping activities. There will be further discussions by the STC Chairs in Lima on those challenges. What is important for CEE is that all Task Group Chairs need to identify from the chart included as Appendix 2 to the Committee's edition of these Minutes where the potential overlaps are in their activities and seek to ensure that effort on common or related activities are coordinated.</p> <p><b>4.3 A Progress Report to the Executive Board</b> was presented in person by the CEE Chairman in March 2016. It was early in the first year of ICE's role on CEE, and was essentially a 'work in progress' report rather than one of CEE Outputs. The CEE Report to the Lima Meetings of the Executive Board and Executive Council comprised the Chairman's Summary Report to CEE (suitably amended for a different audience), plus the Task Group Reports, proposed revised strategy, and the agenda for this CEE Meeting.</p> <p><b>4.4 WFEO UN Relations Committee and relating CEE work to the UN Sustainable Development Goals</b> – See the section of Minute 8 below related to CEE's connection to the SDGs.</p>	RKV



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	<p>4.5 <b>The 2016 CEE Committee Review</b> was part of the overall WFEO Performance Review of the WFEO Standing Technical Committees. It involved the Chairman completing a self-assessment and that being moderated by an Assessor who is appointed by the WFEO Executive Board. At the time of this CEE meeting, the Chairman was expecting feedback from CEE’s Assessor and the STC Performance Group during the rest of the Lima meetings, and the outcome will be reported to CEE separately.</p>	<p>JV &amp; RKV</p>
	<p><b>4.6 Africa Catalyst</b> The Chairman reported on the Africa Catalyst, a WFEO concept to assist capacity-building in Africa that had been supported by the UK’s Global Challenges Research Fund (GCRF). The GCRF’s pilot funding has been channelled through UK’s Department for International Development and, at DfID’s request, is being administered by the UK’s Royal Academy of Engineering (RAEng). The pilot projects are focussed on Sub-Saharan Africa.</p> <p>The President of the Commonwealth Engineers’ Council (CEC), Professor Paul Jowitt, had worked closely with a number of WFEO groups and others, and 10 proposals related to WFEO or WFEO members’ work had been submitted. The Chairman was delighted to report that it had been announced soon before she left UK for Lima that 9 of the 10 had been successful.</p> <p>In answer to a question from the WFEO President, the Chairman undertook to speak to Professor Jowitt about how best the CEE could work with the nine projects and to send round details of the successful projects. Professor Jowitt’s Report to the WFEO Council is attached to these minutes as Appendix 3 to the Committee’s edition of these Minutes.</p> <p>The Chairman also stressed that there was now a clear need to deliver the approved projects in an effective and timely manner and learn any lessons from these pilot projects for any future rounds of bidding for funding.</p> <p>Haro Bedelian commented that the success of these bids potentially opened a ‘new era’ for WFEO in securing funding for the projects it wished to undertake. The UK Royal Academy of Engineering was on a learning curve with the whole Africa Catalyst programme, so it was important for the winning project teams to work closely with their UK partners they had offered (a requirement of the bid process), which included CEC and Action against Poverty. Haro later commented that it would be important for CEE to know which Africa Catalyst projects were in its area of interest and help in the process of disseminating results.</p> <p>Reggie Vachon commented as Treasurer that there would be a need to capture the number and value of in-kind contributions to these projects, not only for reporting to RAEng but also for WFEO reporting to members and others. It would also be necessary to make appropriate arrangements for the ownership of the results of the projects that are to be undertaken by WFEO STCs and their Task</p>	<p>JV RKV</p> <p>RKV to send details to Reggie Vachon to look at RAEng terms</p>



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	<p>Groups.</p> <p>The Chairman re-stressed that the existence of the Africa Catalyst programme and WFEO's success in the nine projects helped by Paul Jowitt is to be celebrated.</p>	
5	<p><b>Theme Chairmen's Progress Reports for 2016</b></p> <p>The Chairman indicated that she looked forward to verbal reports from Task Groups 1 and 4 to augment their written reports. A written report on the work of Task Group 2 had been received just prior to this meeting and would be included in the minutes. The work of Task Group 3 would be covered under Agenda item 7.</p>	
	<p><b>5.1 Adaptation of Infrastructure to Climate Change</b>, including involvement in UN Framework Convention on Climate Change and COP21 &amp; COP22, and liaison with the World Meteorological Organisation</p> <p>Darrel Danyluk contributed as follows.</p> <p><b>A) UN Framework Convention on Climate Change's (UNFCCC) Conferences of Parties (COPs)</b></p> <ol style="list-style-type: none"> <li>1. He reported on WFEO's attendance at the 21<sup>st</sup> meeting of the Convention on Climate Change's Conference of Parties (COP21) in Paris.</li> <li>2. He also reported on the WFEO parallel event – Engineers Climate Change Summit <i>Turning Words into Action: A Sectoral Approach</i> on 8 December 2015 at the Ecole Nationale Supérieure des Mines, Paris – which had been an excellent and successful event. It created a statement that was sent to COP21 (attached as Appendix 4 to the Committee's edition of these Minutes).</li> <li>3. The President highlighted the importance of WFEO being recognised by the UN as a participatory organisation.</li> <li>4. In answer to a question about the written report and the mitigation reports mentioned in paragraph 2.2.2, Darrel agreed to send RKV the links to these reports for circulation to CEE Members.</li> <li>5. He gave his firm view that WFEO, whether through CEE or other Committees of WFEO, should seek to have similar events at future UNFCCC COPs.</li> <li>6. Darrel also reported on the initiative taken by Engineers Canada to bring students to COP21 and the Bonn preparation meetings, which all of them had found to be very enlightening and life-changing. What had started as a way of using allocations given to WFEO for attendance at these meetings when all the spaces had not been taken up by WFEO Members had turned into a major opportunity to enhance PhD students and post-doc academics' understanding of the political realities affecting progress in tackling climate change.</li> <li>7. A WFEO delegation to COP22 in Marrakesh had been made up mainly of Moroccan Engineers, and a report produced by Zizzo Strategy. This is included in the Minute Book as Appendix 5 to the Committee's edition of these Minutes.</li> </ol>	<p>DD/RKV</p> <p>DD, + RKV to ensure liaison between WURC and CEE</p>



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	<p>8. Darrel reported that the next Bonn Preparatory meeting (for COP23) was to be held from 8 to 18 May 2017. The registration process for gaining agreement for WFEO to have a delegation there starts in January, and it was agreed that Darrel would circulate an email to all CEE members about the process of registration.</p> <p>9. In response to a question, Darrel agreed to prepare a page summarising the benefits to students of participating in the UN meetings, and how to apply.</p> <p>10. Post meeting Notes:</p> <ul style="list-style-type: none"> <li>○ COP23 will be organized by Fiji and hosted at the headquarters of the UNFCCC secretariat in Bonn, Germany, 6-17 November 2017. Further details at <a href="http://sdg.iisd.org/events/unfccc-cop-23/">http://sdg.iisd.org/events/unfccc-cop-23/</a>.</li> <li>○ The preparatory meeting for COP24 will be in Bonn from 30 April to 10 May 2018.</li> <li>○ COP 24 expected to take place either from 5-16 November 2018 (according to the SDG Knowledge Hub) or 3 to 14 December 2018 according to the UNFCCC website. Both websites agree that the location is to be determined.</li> </ul> <p><b>B) Project funded by the German Funding Agency GIZ</b> Darrel Danyluk also reported that a 5-year project proposed to GIZ for WFEO-led work in Brazil, Costa Rica, Vietnam and parts of Africa had been approved. Details will follow when notified.</p> <p><b>C) MoU between WFEO and the World Meteorological Organisation (WMO)</b> Darrel Danyluk indicated that this covered engineering input to the global (meteorological) monitoring system. Ideally, WFEO-CEE needs a Swiss member representative to develop the link to WMO (which is headquartered in Geneva). It was agreed that more needed to be done to develop and use this positive link.</p>	<p>DD</p> <p>DD</p> <p>RKV</p> <p>JV/DD</p>
	<p><b>5.2 Climate Change Adaptation – Report on progress with the Future Climate – Engineering Solutions initiative</b> The report of the FC-ES Group had been received but there were no important matters that needed to be reported to this meeting. The report is included in the Minute Book.</p> <p>The President asked that the FC-ES report be sent to the WFEO Committee on Energy.</p>	<p>RKV</p>
	<p><b>5.3 Sustainable Practices for Engineers</b> See discussion at Item 7 below</p>	
	<p><b>5.4 Engineering and Agriculture</b> Fethi Thabet, as Chairman of the Working Group, presented his written report, which had been included in the Agenda Book.</p> <p>Additional points raised by Fethi and in discussion included the following.</p>	



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	<p>A) The Agriculture Working Group is seeking additional members. Please email Fethi at <a href="mailto:fethithabet53@gmail.com">fethithabet53@gmail.com</a> if interested.</p> <p>B) Fethi is working towards establishing a partnership relationship with the UN Food and Agriculture Organisation, and is seeking to bring it into effect at the ROME WFEO Meetings in November/December 2017. One key idea is the possibility of creating an “Early Warning System” for (failures) in Agriculture. He would welcome further ideas for activities to be undertaken with FAO.</p> <p>C) Fethi invites involvement and participation in the Workshop on Sub-Saharan Agriculture being arranged to be held in Abidjan in 2017.</p>	ALL
	<p><b>5.5 Sustainability, Engineering and Mining</b> The Report of the Group on Sustainability, Engineering and Mining included in the Agenda Book was noted. There was no discussion and no questions raised.</p>	
6	<p><b>Roundtable Reporting of Member and Observer Activities and Issues</b> All Members are invited to submit reports in advance if at all possible, but if not to bring a report with them to the meeting (both physically and electronically) so that it can be readily added to the meeting summary</p>	
	<p><b>6.1 Kuwait</b> – The Kuwait Society of Engineers’ Environment Committee, working with the Municipal Council was undertaking a study for the Government on how to deal with the ‘disposal’ of used tyres. It was currently envisaged that a factory would be established with the participation of the private sector, although the technology to be used was still under consideration. The study includes a strand of work expressly addressing the potential for young entrepreneurs to participate. When the study is complete, it would be possible to share the report with WFEO CEE.</p>	Kuwait
	<p><b>6.2 Tunisia</b> – A new society had been established, the Tunisian Association of Women Engineers. They had asked to become an Observer of WFEO CEE – it was noted that the Tunisian WFEO Member would have to formally apply for that – and were arranging a meeting on Innovation and the role of women.</p>	
	<p><b>6.3 Singapore</b> – Seng-Chuan Tan reported on recent and forthcoming activities, including a programme on assessment techniques, a Climate Task Force under his leadership based in Singapore but regional in coverage, and the forthcoming World Engineers Summit – Applied Energy Symposium &amp; Forum: Low Carbon Cities &amp; Urban Energy Joint Conference (WES-CUE) 2017, to be held in Singapore from 18 to 21 July.</p>	
	<p><b>6.4 Qatar</b> – details awaited</p>	
	<p><b>6.5 South Africa</b> – Martin van Veelan reported on recent and forthcoming activities.</p> <ul style="list-style-type: none"> <li>The South Africa engineering community had had and continued to have discussions on ‘big questions’ on energy supply, in particular, nuclear vs the status quo vs renewables.</li> </ul>	



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	<ul style="list-style-type: none"> <li>• He was personally supervising a PhD on the impact of design standards on environmental performance and wondered whether CEE members could assist on that subject in any way. Roger Venables responded that he would be pleased to help if practicable because the issue of whether existing standards could remain valid in an era greatly affected by global warming and the associated climate changes had been a major topic of discussion at recent UK conferences.</li> <li>• Shilpa Jain agreed to send details of a Workshop being arranged by younger members in South Africa.</li> <li>• Tsepo Tshiwilowilo reported that SAICE young engineers had run a symposium on women in engineering and that, importantly in his view, a significant number of men had been present. Jean Venables commented that it is important that male engineers attend such events, but also that the agenda moves on one of equality, fairness and diversity, covering the whole range of gender, ethnicity and other equality issues.</li> </ul>	
	<p><b>6.5 China</b> – Professor Jianping Wu, Dr Wei Zhang and Dr Jing He reported as follows.</p> <ul style="list-style-type: none"> <li>• China is a major participant in the Asian Network for climate science and technology on Climate Change and Urban Environment – see <a href="http://ancst.org/4th-ancst-workshop-climate-change-and-urban-environment-call-for-papers-2/">http://ancst.org/4th-ancst-workshop-climate-change-and-urban-environment-call-for-papers-2/</a> (RKV note: no record of outcome publication has been found – perhaps Professor Jianping Wu can supply?)</li> <li>• Continuing Professional Development programmes in climate change-related topics have been established.</li> <li>• Dr Jing He made a brief presentation on green buildings, and her slides are included in the Minute Book for this CEE Meeting. Discussion of her presentation centred on the importance of key topics within the overall field of green buildings, especially concern about waste, poor waste management practices and too little effort on waste minimisation, recycling and the use (lack of it) of recycled materials.</li> </ul>	JW
	<p><b>6.6 Canada</b> – Engineers Canada CEO Kim Allen reported as follows.</p> <ul style="list-style-type: none"> <li>• An Infrastructure Resilience Professional (IRP) Certification program was launched by Engineers Canada in June 2016. It is supported and used by the Canadian government for large infrastructure projects, both new and refurbished.</li> <li>• We have provided an Opportunity for Engineering Schools to offer training as Continuing Education, leading to certification.</li> <li>• IRP candidates can fulfil the knowledge requirements of the certification through the successful completion of the five IRP courses:             <ul style="list-style-type: none"> <li>○ Asset Management for Engineers</li> <li>○ Risk Management for Engineers</li> <li>○ Infrastructure Climate Vulnerability and Risk Assessment (i.e. PIEVC Training Workshop)</li> <li>○ Climate Science for Engineers</li> </ul> </li> </ul>	





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	<ul style="list-style-type: none"> <li>○ Climate Change Law in Canada</li> <li>● In addition, IRP Candidates have to complete one assessment under the guidance of an IRP practitioner.</li> <li>● More details are at <a href="https://engineerscanada.ca/services/infrastructure-resilience-professional">https://engineerscanada.ca/services/infrastructure-resilience-professional</a>.</li> </ul>	
7	<p><b>Progress with acceptance, translation and adoption of WFEO (model) Codes of Practice:</b> WFEO Code of Practice on Principles of Climate Change Adaptation for Engineers and WFEO Code of Practice for Sustainable Development and Environmental Stewardship for Engineers.</p> <p>7.1 The Committee discussed the two model Codes and the potential for further adoption (formally ratification or acceptance) by WFEO member countries, and further publicity for them to individual professional engineers.</p> <p>Paper copies of the two Codes were circulated as required. The Chairman stressed that the issues and possibilities put in front of the Committee in the Agenda were as follows.</p> <ul style="list-style-type: none"> <li>● <b>Ratification or acceptance of the two documents by WFEO member countries</b> – current status, how to encourage formal adoption and a process to keep track</li> <li>● <b>Further efforts and strategies to increase awareness</b> of the documents by national members and their engineers e.g. international webinars</li> <li>● <b>Potentially developing training materials</b> on the two codes for delivery on-line or face-to-face</li> <li>● <b>How to increase the awareness and credibility of these documents with UN agencies</b> – maybe collaborate with the UN Relations Committee</li> <li>● <b>How to collaborate with international members of WFEO and regional bodies of WFEO</b> e.g. FAEO, FEANI and FESIAP to increase awareness and uptake of these documents by engineers but also endorsement by national governments that would increase the profile and credibility of engineers with their governments.</li> </ul> <p>7.2 Updates and further information provided included the following.</p> <ul style="list-style-type: none"> <li>● Engineers Canada has adopted both Codes. They are putting them in front of appropriate University Departments to be used in teaching relevant engineering courses.</li> <li>● The American Association of Engineering Societies, the US member of WFEO, has included the WFEO Model Code of Practice for Sustainable Development and Environmental Stewardship in its resources list, and publicised both Model Codes in its newsletters.</li> <li>● The use of the word ‘model’ in the title of the codes means that the code is a document that can be adopted as written or used by individual countries as the basis of a national code amended to local conditions and practices.</li> <li>● The purposes of raising the issue on CEE’s agenda were to discuss what</li> </ul>	





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	<p>CEE members could do to publicise the Codes <i>and</i> to discuss what could be done on the same issue by the wider WFEO community, especially its International Members, which could lead to a recommendation from the Committee to the Executive Council at the end of the week.</p> <p>7.3 Discussion included the following points.</p> <ul style="list-style-type: none"> <li>• One presentation of a Code to a relevant national body is of course helpful, but perseverance is needed, until either the code is adopted locally or local codes are confirmed as covering all the same points, or they are revised to do so.</li> <li>• Reggie Vachon commented that the Model Codes were compatible with, and supportive of action in support of, the UN SDGs.</li> <li>• It would be helpful to agree a common definition of ‘professional practice of engineers’.</li> </ul> <p>7.4 The following actions were agreed.</p> <ul style="list-style-type: none"> <li>• Roger Venables agreed to seek copies of the codes in Word format from David Lapp and circulate them to the Committee’s members.</li> <li>• All members agreed to promote the Codes for adoption in their respective countries, whether directly or by embodying their provisions in local codes or their equivalents, and with their contacts in International Members. In particular, it was agreed that a response should be sought even if negative and, if it were to be negative, a reason would be requested.</li> <li>• Volunteers were sought for translation of the Codes into languages not yet undertaken. Jianping Wu offered to arrange a translation into Chinese, and the Saad Alazemi of Kuwait agreed to arrange a translation into Arabic. Volunteers for Spanish and French translations were still needed.</li> <li>• Roger Venables agreed to pursue circulation options in the UK – for example through IEMA and CEEQUAL – and to seek a response on adoption from the ICE.</li> <li>• It was further agreed that Jean Venables would request that the Executive Council instruct National Members to promote the Model Codes as widely as practicable. Roger Venables would circulate a note to International Members with a copy of each Code.</li> </ul>	<p>RKV / DL</p> <p>ALL</p> <p>JW &amp; SA</p> <p>ALL</p> <p>RKV &amp; ICE</p> <p>JV</p> <p>RKV</p>
8	<p><b>2016-2019 Strategic Plan</b></p> <p>The Committee considered the plan developed by ICE since the Kyoto meeting with a view to its adoption at this meeting.</p> <p><b>8.1 Initial discussion on SDGs and the link to CEE’s work</b></p> <p>Initially, there was an important discussion about the status of the UN Relations Committee paper on the relation between the UN SDGs and the work of the Committees (including CEE). On the one hand, the ICE had taken this to be an</p>	



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	<p>‘instruction’ or mandate that the Committees had to work on the topics listed against them in that paper; others saw that paper as a report to the UN on the <i>possible</i> areas that each Committee could concentrate on, but each Committee needed to decide for itself which one (or more) they would concentrate on for the coming year or two up to the 2018 ExCo meeting.</p> <p>After further discussion, it was agreed that CEE did need to focus on a few SDGs <i>and</i> to keep up progress on its chosen topic areas. So it was decided to discuss the objectives for each of the existing groups and then, once that was completed, to map the agreed objectives to the SDGs.</p> <p>8.2 Changes agreed to the Working Groups’ objectives and actions to be taken on those not discussed at the meeting</p> <ul style="list-style-type: none"> <li>• The changes agreed on the <b>Climate Change Adaptation Group’s</b> objectives were noted by Roger Venables and are included in Appendix 6 to the Committee’s edition of these Minutes.</li> <li>• One option to be considered was to extend the Group’s work into adaptation of consumption – to be considered by Darrel Danyluk.</li> <li>• The discussion on the <b>Climate Change Mitigation Group’s</b> objectives was noted by Roger Venables, and it was agreed that the objectives would need to be revised with FC-ES in the light of the discussion, and then circulated to the Committee.</li> <li>• On the further objectives in the area of <b>Professional Practice</b>, DD proposed that he would find someone to study the WFEO Model Code of Practice for Sustainable Development and Environmental Stewardship to identify its content to the SDGs.</li> <li>• It was agreed that the focus on this activity should be changed to communication and adoption, and the revised Objectives are included in Appendix 6.</li> <li>• On the <b>Engineering and Agriculture theme</b>, it was agreed that the Group should focus entirely on the establishment of the proposed Workshop on What engineering can contribute to food security, and use that Workshop to identify further objectives for the theme.</li> <li>• On the <b>Sustainability &amp; Mining theme</b>, it was agreed, in the absence of any representatives from the Group at this meeting, Roger Venables would invite Jessica Kogel to revise the Objectives and Goals in the light of her report to the Committee, and for the re-draft to then be circulated for comment.</li> <li>• Out of the above revisions, the Chairman and Secretariat would map the proposed activity against the SDGs and propose a focus for the Committee and the primary linkages to individual SDGs for CEE.</li> <li>• In response to a question about whether there were any other issues that the Committee should target in the next 12 to 18 months, it was agreed to focus on what had just been discussed for some months before considering adding any further issues to the Committee’s agenda.</li> </ul>	<p>ALL to comment</p> <p>DD</p> <p>RKV, ICE &amp; FC-ES</p> <p>DD</p> <p>RKV &amp; ICE</p> <p>FT</p> <p>RKV &amp; JK</p> <p>ICE &amp; JV</p> <p>ALL</p>



<b>Item</b>	<b>Minutes</b>	<b>Action</b>
9	<b>WFEO CEE Communications</b> It was agreed that the Secretariat would re-visit the communications strategy once the revisions and updates to the Objectives and goals for the Committee's five themes had been completed, and a new proposal circulated for comment.	ICE / JV
10	<b>Agreed Actions/Overall Plan for the coming year</b> The actions agreed have been extracted from these minutes to form Appendix 7 to the Committee's edition of these Minutes, the CEE Action List, which includes actions carried over from before this meeting.	RKV / ALL
11	There was no other business for the meeting.	
12	It was confirmed that the next meeting of the Committee would be held in Rome during the annual WFEO Meeting in late November/early December 2017.	ALL
13	The Chairman thanked all members of the Committee for their positive contributions to the discussions at the meeting, and for their promises of future actions to establish and then deliver on the Committee's priorities.	

rkv/jv  
30 May 2017



## Committee on Engineering and the Environment – 2015-2019

Face-to-Face Meeting No. 9, Saturday 3rd December 2016  
Room A-B, CIP Building, Av. Arequipa 4947, Miraflores, LIMA, Peru

### List of attendees

COUNTRY	NAME	CEE ROLE	ORGANISATION NAME
UK	Jean Venables CBE FREng FICE	Chairman	Institution of Civil Engineers
UK	Roger Venables FICE MCIM	Honorary Secretary	Institution of Civil Engineers
Canada	Eng. Darrel John Danyluk	Regional Vice-Chair, and Chair, Climate Change Adaptation	Engineers Canada
Canada	Kim Allen	Full Member	Engineers Canada
China	Professor Jianping Wu	Full Member	CAST
China	Dr Jing He	Full Member	Green Building Research & Development Center
Kuwait	Eng. Mohammed Fadhi A. Al-Rashidi	Full member	Kuwait Society of Engineers
Kuwait	Eng. Essa Alrashidi	Full member	Kuwait Society of Engineers
Kuwait	Eng. Salah alfadhli	Full Member	Kuwait Society of Engineers
Singapore	Eng. Seng-Chuan TAN	Regional Vice-Chair	Institution of Engineers Singapore
Slovenia	Dr. Željko Vukelic	Full member	Slovenian Chamber of Engineers
South Africa	Dr. Martin van Veelen	Full Member	Federation of African Engineering Organizations



Tunisia	Eng. Fethi Thabet	Chairman, Engineering and agriculture	Conseil de l'Ordre des Ingénieurs
<b>OBSERVERS</b>			
China	Pan Li	Observer (and Secretary, WFEO Committee on Engineering for Innovative Technologies)	CAST
China	Wei Zhang	Observer	Architectural Design and Research Institute, Tsinghua University
China	Wenting Lian	Observer (and Secretary, WFEO Committee on Engineering for Innovative Technologies)	CAST
Qatar	ARCH. Fairoz Homaidiai	Attendee	Qatar Society of Engineers
Qatar	Engr Ibrahim Al Sulaiti	Attendee	Qatar Society of Engineers
Slovenia	Crtomir Remec	Observer (Executive Vice President)	Slovenian Chamber of Engineers (Work is The Housing Fund of the Republic of Slovenia)
South Africa	Shilpi Jain	Observer	SAICE
South Africa	Tsepo Tshiwilowilo	Observer	SAICE
UK	Haro Bedelian	Observer	Institution of Civil Engineers
Not relevant	Jorge Spitalnik	Observer (President)	WFEO