



**World Federation of Engineering Organizations
Committee on Engineering and the Environment
2011-2015**

**FACE-TO-FACE MEETING #6
Singapore City, Singapore
September 9, 2013**

Meeting Summary

Item	Summary of Discussion	Decisions:
1.	<p>WELCOME AND INTRODUCTIONS</p> <p>The Chair welcomed everyone to the meeting. He welcomed some special guests to the meeting including two members of the Executive Board (P. Greenwood and H. Bedelian), WFEO Executive Director (T. Youseff) and IPENZ Executive Director (A. Cleland), who is serving as a special adviser to the Executive Board on the review of standing committees.</p> <p>All attendees introduced themselves and their affiliations. The list of participants who attended all or part of the meeting is attached. Several were representing the CEE member for their country.</p>	None
2.	<p>REVIEW AND APPROVAL OF AGENDA</p> <p>The following additions were added to the agenda:</p> <p>Item 1.1 – Executive Board – Review of Standing Technical Committees Item 7.4 - Engineering Management Conference Item 7.5 – Infrastructure Rating Scheme Update</p> <p>The meeting was organized into two sessions: 1) A Business Meeting held in the morning; and, 2) 2012-2015 Strategic Plan Review which was held in the afternoon.</p> <p>The Chair was given discretion to re-arrange the order of the agenda to accommodate the availability of participants.</p>	Agenda approved as amended.
3.	<p>EXECUTIVE BOARD - REVIEW OF STANDING TECHNICAL COMMITTEES</p> <p>P. Greenwood informed the Committee that the Executive Board has undertaken a review of the standing technical committees over the past few months in consultation with the Chairs. It was noted that hosts and chairs of the committees had been mostly stable for the past ten years until the 2011 General Assembly, when there was a significant turnover. New Rules of Procedure were also adopted and have now been in effect for two years.</p> <p>The work of the standing technical committees is the majority of the work of World Federation of Engineering Organizations. The work is very important to achieve the goals of enhancing the organization's reputation and representation to other international bodies as well as providing value to national and international members. There is a strong desire to provide guidance and coaching to improve committee performance to support these goals.</p>	



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	<p>The 2011 Rules of Procedure include Annex C, which covers the standing technical committees. It describes the responsibilities for hosting and chairing a standing committee (including succession planning), as well as providing guidance on membership, finance, meetings and publications. (Secretary's Note: Annex C - Rules of Procedure for Standing Technical Committees is included as Attachment A). It has been used to develop a process for the evaluation of committees.</p> <p>The review included an annual self-assessment by committee chairs responding to a series of questions. The responsible Executive Board members and advisers formed a Review Committee to review responses as well as other materials such as newsletters, reports and the website. Comments were prepared and a draft was given to each chair. Through the coming week the Review Committee will be meeting with individual chairs to discuss the feedback and ways to make adjustments to maximize effectiveness.</p> <p>The Review Committee reported that the Committee on Engineering and the Environment was the best performing of the standing technical committees. It operates in full compliance with Rules of Procedure and serves as a model for how these committees should operate. It was noted that Chair Darrel Danyluk, FEC, P.Eng. has been a huge contributor to the work of WFEO Review Committee through the CEE as well as Executive Council.</p> <p>A. Cleland noted that the review was an important piece of work for the WFEO as an organization. The Review Committee evaluated all the standing technical committees through questions:</p> <ol style="list-style-type: none">1. If the committee did not exist would we create it now?2. What are the issues that can be better tackled internationally through a standing committee versus being worked on at a national level?3. How does the committee operate in practice? <p>There was discussion of these questions among CEE members and observers who were present:</p> <ol style="list-style-type: none">1. The CEE exists to identify good practices for engineering and the environment especially for developing countries that have few, if any guidelines.2. The WFEO and the work of CEE opens doors to the United Nations and other international bodies to hear the engineering voice and engage with the profession. There is a clear international role for the committee.3. CEE operations are exemplary. It has a structured strategic plan with dedicated staff and financial resources from Engineers Canada to support the Chair and the committee.4. The CEE shares good practices and create products that are helpful to national members.5. There is a reasonable spread of countries helping to lead and support assigned themes within the strategic plan. The extent to which other national members contribute to the committees work is sufficient. Furthering broader and deeper engagement of national members is encouraged.6. The second term with Engineers Canada as host ends in December	



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	<p>2015. The Executive Council has to decide on the next host in about one years` time. Succession planning and implementation is part of the Rules of Procedure. The CEE has included this activity as part of its Strategic Plan and is pursuing options.</p> <p>7. The Committee on Disaster Risk Management hosted by Japan is completing its first term. The Executive Council is recommending to the Executive Board that Japan host for a second term.</p> <p>8. The renewal and appointment processes for hosting committees are aimed to do whatever is needed to maintain the quality of the committee and its work.</p> <p>Questions posed to the Review Committee included:</p> <ol style="list-style-type: none"> 1. How have the committees contributed towards achieving the objects of the WFEO? 2. Did you find a lack of support/participation in the standing committees from national members who are not hosts? <p>It was noted that the CEE and its strategic plan gives focus to achieving some of the objects of WFEO. It is less apparent for other committees.</p> <p>The Executive Board is concerned with the contribution of national members who do not host committees. It is a real challenge and difficult to communicate the concern in a way that will prompt action. Committee hosts contribute the most. There are very few national members that will commit staff or financial resources if they are not hosts. Individuals will join because the work is important to them.</p> <p>D. Danyluk noted that headquarters has created a process for submitting documents including updates to websites. Requests used to be ad-hoc but are now better organized.</p>	
4.	<p>APPROVAL OF WFEO-CEE MEETING SUMMARY</p> <p>The Meeting Summary from Face-to-Face Meeting #5 held in Ljubljana, Slovenia on September 16, 2012 was approved as written.</p> <p>The Secretary will send the approved summary to the WFEO Executive Director. It will be sent separately to CEE members and meeting participants.</p>	Meeting Summary approved as written.
5.	<p>REVIEW OF ACTION ITEMS</p> <p>The Secretary reviewed the list of action items from the last meeting. He reported that many of the action items were completed, a few are still in progress or are part of this meeting's agenda with following exceptions:</p> <ul style="list-style-type: none"> • Members to periodically review World Federation of Engineering Organizations website (www.wfeo.net) and WFEO-CEE section for updates. Provide feedback to the Secretariat on any errors or missing information. This is an ongoing task. • Members to forward information or links to the Secretariat on upcoming meetings, conferences and reports that they wish to place on the WFEO website. Secretariat to forward this information and request for placement to the WFEO webmaster. This is an ongoing task. • Theme 6 has been deleted in the Strategic Plan. Efforts to secure a 	Secretary to complete outstanding action items.



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	<p>subject theme and theme leader have been unsuccessful. Mexico rejected the idea of leading a task group on oceans and coastal zones within the CEE. Their wish is to have a separate standing committee. No national member volunteered to lead the proposed theme on quality infrastructure systems in developing countries. With only two years left in the current mandate, adding another theme in the strategic plan is no longer being considered.</p> <ul style="list-style-type: none">It was not possible to organize a teleconference of the CEE prior to the summer of 2013 due to many scheduling conflicts and time zone differences. It was also not possible to schedule a call of the theme leaders and regional Vice-Chairs for the same reasons.	
6.	<p>CHAIR'S ACTIVITY REPORT</p> <p>The Chair reported on a number of items that he has been involved for the past several months.</p> <p>6.1 WFEO Executive Board Meeting – April 2013</p> <p>This meeting consisted of a series of meetings among different groups within the WFEO structure. Participants included members of the Executive Board, the Standing Committee Chairs, Executive Council members and some national members who were interested to observe the proceedings.</p> <p>The meetings include a formal meeting of the standing committee chairs that occurs twice yearly, Executive Board meeting and the fall meeting of Executive Council. The chairs met to exchange information on progress within their own committees as well as opportunities for collaboration. They discussed challenges and opportunities to move agendas forward within the WFEO structure. The demands of the Executive Board and WFEO headquarters on resources and deadlines were also covered. Visitors to the meeting included UNESCO personnel interested in WFEO STC activities. Separate meetings were scheduled to discuss follow up action with several STCs</p> <p>The meeting of chairs reviewed the Rules of Procedure, which create a standard model for all committee to follow. The topics covered by standing committees do not always lend themselves to be the same.</p> <p>The WFEO President-Elect provided some details on a proposal for a World Engineering Forum that would be similar in scope and profile as the World Economic Forum. Qatar has expressed considerable interest, including significant financial support and hosting in Doha. It would engage all international and national engineering organizations, not just WFEO. UNESCO and OECD are also supportive. An update will be provided later in the week at the meetings of Executive Council and General Assembly. Such an event would significantly raise the profile and prestige of the WFEO with the United Nations and the international community if it is well-executed.</p> <p>6.2 Report of the Committee on Engineering and the Environment 2011-2013</p> <p>Since 2013 was a General Assembly year, the WFEO required all standing committees to prepare bi-annual reports on their activities and progress since 2011. All committee reports were consolidated into the</p>	<p>Include notes of the April 2013 meeting of standing committee chairs with this meeting summary.</p>



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	<p>2011-2013 WFEO Bi-Annual Report that is tabled at the General Assembly and distributed to all members. A copy of the CEE report was included in the meeting materials. The Chair thanked the theme leaders and their task groups for work accomplished over the past two years as well as providing information to enable the CEE report to be prepared. There were no questions or comments.</p> <p>6.3 UN Secretary-General's Report on Millennium Development Goals (MDGs) This annual report covers progress in the implementation of the MDGs, which are in place to 2015. It includes steps to advance the development agenda beyond 2015. The report sets direction from the highest levels on where the United Nations should go in the pursuit of these goals. The WFEO has an opportunity to present the engineering perspective through co-chairing the Major Group on Science and Technology (with International Science Council (ICSU)), one of nine civil society groups recognized by the United Nations in this process.</p> <p>WFEO manages this group through the UN Relations Committee (acronym WURC), currently chaired by Engineer Jorge Spitalnik of Brazil. The CEE Chair and Secretary are members of WURC.</p> <p>6.4 United Nations Framework Convention on Climate Change (UNFCCC) The CEE is the designated UNFCCC focal point for World Federation of Engineering Organizations. Attendance of WFEO delegates at UNFCCC meetings is arranged through D. Danyluk.</p> <p>The CEE Chair and Secretary attended the June 2013 meeting of the UNFCCC in Bonn. The activities completed included:</p> <ol style="list-style-type: none"> 1. Delivered a WFEO-CEE side event (workshop) "Knowledge Development and Capacity-Building for Adapting Bridge Infrastructure in Honduras" in partnership with WMO. 2. Delivered a presentation on Using climate services from an engineering perspective" at a WMO side event (workshop). 3. Delivered a presentation to delegates and negotiators on our capacity-building experiences in Costa Rica and Honduras at the 2nd Durban Forum on Capacity-Building. 4. Operated an information booth on WFEO and the work of the CEE for the second week of the meeting. <p>Planning is underway to attend the Conference of the Parties Meeting No 20 (COP-20) in Warsaw in November. It is hoped to include one or more representatives from our national member from Poland as part of the WFEO delegation.</p> <p>6.5 Liaison with UNESCO The notes of a March 2013 teleconference involving the CEE Chair, Secretary, the CEE Theme Leaders and WFEO headquarters staff with several members of UNESCO staff was included in the meeting materials. Each theme leader and the UNESCO staff provided a briefing on their work. A meeting was to be arranged with UNESCO in April. Since that time there has been little contact due to staff turnover at</p>	



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	<p>UNESCO.</p> <p>6.6 <u>Liaison with OECD</u> In late January 2013, a letter was sent to OECD outlining potential areas of cooperation between the two organizations. It included a proposal for a two-year action plan with three projects: 1) food security and rural infrastructure, 2) adaptation to a changing climate and 3) climate change mitigation.</p> <p>A meeting was held with several OECD staff in April in the same week the Executive Board was meeting. Discussion on the action plan was limited by other topics. It was left to OECD to prepare a response and start engagement. Unfortunately there was staff turnover at OECD and lack of staff availability of staff so there has been no formal response to the proposal or discussion.</p> <p>6.7 <u>WFEO Marketing Plan Update</u> The most recent version of the Marketing Plan is focusing on ways to generate revenue. The group is meeting tomorrow so more details will be revealed afterwards.</p> <p>6.8 <u>STC Meeting and President-Elect Questionnaire</u> Chair D. Danyluk reported that he had led an exercise with the other standing committee chairs to develop 12 questions for the two President-Elect candidates that help clarify their views on various aspects of WFE O (including support for the technical committees) and plans for when they would become President.</p> <p>The standing committee chairs will be having a closed meeting later in the week to exchange information, meet with the President-Elect candidates to go through the 12 questions and to further discuss the Executive Board review process.</p> <p>6.8 <u>WFEO UN Relations Committee (WURC)</u> This committee coordinates WFEO activities and representations to various UN bodies such as the Commission on Sustainable Development, UNFCCC, UNISDR, FAO and other bodies. The CEE Secretariat provided support for the early meetings of this committee in the fall of 2012 and winter of 2013. WFEO Headquarters staff has since taken over the secretariat function.</p> <p>There was some question around the work and mandate of the WURC. Information on the work of the past six years to determine what has been achieved and where we have fallen short is in order. This prompted several members of the WURC to provide examples to illustrate what has and can be done:</p> <ol style="list-style-type: none"> 1. WFEO had a significant presence and engagement at the Rio +20 international conference on sustainable development in June 2012. A one day WFEO workshop on Sustainable Communities produced a Declaration that was sent to all WFEO national members. Many submitted the text to their national governments and negotiators in 	



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	<p>Rio. One sentence in our declaration was used by United States Secretary of State Hilary Clinton in her remarks. This was a win for the profession in the UN forum.</p> <ol style="list-style-type: none"> At the UNFCCC the WFEO achieved a milestone in presenting its work on capacity-building inside and directly to delegates and negotiators. WFEO has been actively engaged with meetings of the UN Commission on Sustainable Development. Numerous interventions through the Major Group on Science and Technology* have demonstrated front-line positions on sustainable development goals. *WFEO co-chairs the Scientific and Technological Major Group with ISCU (International Science Council), and ICSS (International Council of Social Scientists) <p>The following conclusions were reached:</p> <ol style="list-style-type: none"> Encourage the other standing committees to participate in these meetings. The expertise of WFEO is in the standing committees so they should be engaged through communication and participation. Show that WFEO is a reference body that the United Nations can go to for unbiased advice. WFEO national members could make representations to their national government representatives who are delegates and negotiators at UN meetings. <p>There are many challenges to the UN system. There are many meetings in locations around the world and it is difficult to cover them with WFEO representatives who are well-briefed on the issues to be discussed and have the engineering advice and wisdom to contribute. Currently this activity usually falls to a few knowledgeable individuals with limited time and lack of funding for travel.</p> <p>Coordination with local national members to represent WFEO is needed but also communication of the issues so representatives are informed going into such meetings. This includes reporting back on outcomes and recommended next steps and positions in a timely manner.</p>	
7.	<p>ROUNDTABLE OF MEMBER/OBSERVER ACTIVITIES AND ISSUES</p> <p>The Chair convened a roundtable session in which participants briefly described activities, upcoming events and particular issues or concerns. The following is a brief summary of remarks by particular individuals.</p> <p><u>Nigerian Society of Engineers – Eng. Olumuyiwa Ajibola</u></p> <p>As the regional representative for CEE, the Society circulated the draft Model Code of Practice to African national members. The feedback was satisfactorily incorporated into the final document. The result is considered a very satisfactory document.</p> <p>Nigeria is experiencing serious environmental issues arising from more frequent and severe flooding in recent years. Areas are flooding that have never flooded before. The government is developing a national climate change policy. The work of the Committee on Engineering and Environment</p>	<p>No decisions. Actions arising placed on the Action Item list to accompany the meeting summary.</p>



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	<p>on adaptation to, and mitigation of, climate change can be used by the Society to provide input to this policy as it develops.</p> <p><u>Institute of Engineers of Singapore – Er. Alfred Wong</u> Singapore has a national strategy to assure potable water sustainability. It involves treatment of all water sources and recycling of wastewater using membrane technologies.</p> <p>Singapore is very flat and faces serious flooding issues from future climate change from a combination of rising sea level and more intense rainfall. During heavy rains, current drainage systems are backed up causing local flooding in some areas.</p> <p>The country is dealing with trans-boundary air pollution and related health issues. Poor air quality and haze from unsustainable forest cutting, slashing and burning from Indonesia is carried to Singapore by prevailing winds. It is a difficult regional issue which requires more negotiation between the two countries.</p> <p><u>Slovenian Chamber of Engineers (IZS) - Engineer Zeyko. Vukelic</u></p> <p>IZS published the proceedings of World Engineering Forum 2012 that was held in September 2012 in conjunction with the meetings of Executive Council (www.wfeo.net/world-engineering-forum-2012-publication).</p> <p>Slovenia is pursuing a policy to eliminate its use of oil and gas within a few years. A number of projects to generate power from geothermal sources are underway. In the NE part of the country, projects to increase geothermal heating of buildings are in progress.</p> <p><u>Bahrain Society of Engineers – Eng. A. Majeed Al-Gassab</u> The Model Code of Practice was distributed widely for comment. There is satisfaction with the final draft addressing comments and concerns.</p> <p>The Society organizes several conferences and meetings each year within Bahrain and in other neighboring Arab partner nations. A brochure was distributed on the 1st Energy Management Conference and Exhibition 2013, to be held 9-11 December 2013 in Bahrain. At this conference and others there is always room for papers and presentations on environmental issues.</p> <p><u>Institute of Civil Engineers – United Kingdom – Hayley Coleman</u></p> <p>In June 2013, the ICE-United Kingdom published State of the Nation: Transport 2013 report: (www.ice.org.uk/information-resources/document-library/state-of-the-nation-transport-2013). It recommends:</p> <ol style="list-style-type: none"> 1. Immediate action to improve road conditions, planning and funding 2. Clear national transport strategies for all parts of the UK 3. Extended devolution of fully-integrated transport powers, particularly to major city-regions <p>This report advocates for a high speed rail configuration referred to as HS2 which is quite controversial.</p>	



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	<p>The ICE is also leading Theme 2 of the CEE Strategic Plan led by Dr. Paul Jowitt. It focuses on climate change mitigation. ICE is working in partnership with the Institute of Mechanical Engineers – United Kingdom. More details on progress will be presents at this meeting`s e afternoon session on the Strategic Plan.</p> <p><u>Engineering Council of Zimbabwe – Eng. Farai Mavhiya</u></p> <p>The Council is engaged in sustainable development and environmental issues and welcomes the proposed model code on sustainable development and environmental stewardship. It works with the country's environmental management agency. Issues include:</p> <ol style="list-style-type: none"> 1. Excessive deforestation in rural areas 2. Wildfires 3. Pushing for more hydro and solar power and other renewable energy technologies, but all are costly to implement. <p>Mining development is a very significant activity with many environmental impacts. The Council is working with the government on environmental impact assessments for new mining projects.</p> <p><u>Ghana Institution of Engineers – Eng. G.J. Brocke</u></p> <p>Ghana has recognized the need to adapt to climate change and the country now has a policy. The current strategy is to learn from others on how to manage and adapt. Roads and transportation sector are a priority.</p> <p><u>Sociedad de Ingenieros Bolivia - Marria Teresa Dalenz</u></p> <p>Bolivia is a very small country that is just starting to examine environmental issues. Very happy to attend the meeting and learn. (www.sib.org.bo).</p> <p><u>Engineers Australia – D. Hood</u></p> <p>Australia has elected a new government which is likely to scrap the carbon tax that has been in place for the past two years. The tax was to convert to a cap and trade system but this is also in doubt.</p> <p>The Australian Climate Commission, informing the Australian public on the impacts of climate change, published a series of reports from 2011-2013 under the theme "The Critical Decade" focusing on 2011-2020 for topics such as health, risks, international efforts, energy and other topics. (https://climatecommission.wordpress.com).The future work of the Commission is under review by the new government.</p> <p>Engineers Australia's November 2013 Congress will be reviewing its climate change policy as well their 2007 sustainability charter.</p> <p>A major conference on sustainable energy is to be held shortly. One of the topics is where nuclear energy fits. Nuclear is carbon-free and should be part of the energy mix.</p>	



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	<p><u>Engineering Council of South Africa – M. van Veelen</u> There is not much discussion or work around climate change at the moment.</p> <p>South Africa has instituted new regulations around environmental impact assessment. Every property development project big or small has to do a full air quality and waste disposal analysis to comply with the minimum requirements of the act. It is cheaper for a developer to pay the fines rather than the costs of the analyses. The process introduces excessive delays and costs for very limited value. It is very trying for property developers who are waiting for project authorization and the results of the environment impact assessment and project authorization.</p> <p><u>AIME and the United States – Dr. Nikhil Trivedi</u> There is continued growth in the development of the Marcellus Shale deposit for gas production. Many states are issuing exploration permits for fracking shale deposits with unknown environmental impacts.</p> <p>The United States Environmental Protection Agency is taking a harder stance with utilities on coal-fired electricity production. Regulations to make it mandatory to use natural gas and not coal are in development. Negotiations are underway between industry, utilities and government.</p> <p><u>College of Engineers – Tunisia – Eng. F. Thabet</u> The country is in a difficult situation politically with transition to a new regime with new institutions underway. The institutions are in their infancy and very fragile since they are transitioning processes that have been in place for over 60 years. The pace of change is slow, but there is hope that there will be more attention on environmental issues in about six months' time. .</p> <p><u>Chinese Society for Electrical Engineering – Eng. Bernell Downer</u> China is dealing with air and water pollution issues. Haze and smog occurs in many of the bigger cities with health and safety impacts. Beijing is facing a shortage of water. China has a green energy overcapacity in wind and hydropower generation. There are also challenges in enforcing environmental regulations.</p> <p><u>Engineers Canada – Jim Becket, FEC, P.Eng.</u> The issues that are of concern in Canada related to environment, climate change and sustainability include:</p> <ol style="list-style-type: none"> 1. Addressing the deficit in public infrastructure repairs and maintenance in a time of tightened budgets 2. Addressing public infrastructure vulnerabilities to changing climate and severe weather events 3. Resource extraction, particularly the oil sands and shale exploration through fracking 4. Transportation of oil resources by pipeline and rail <p>Engineers Canada is concerned about succession planning for hosting and chairing the Committee on Engineering and the Environment after December 2015. We want to ensure a smooth transition as well as some assurance that the Engineers Canada's investment is sustained through the next term and</p>	



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	<p>beyond</p> <p>Chair D. Danyluk thanked everyone for their information and comments. He noted that one the issue of air pollution and the trans-border transportation of particulates that create visibility/haze and health impacts has not been discussed within the CEE. This subject could be a future theme if a national member wanted to assume leadership.</p>	
8.	<p>WFEO-CEE NEWSLETTER</p> <p>The Secretary reported that Newsletter #9 – April 2013 was published in the last week of March just prior to the Executive Board meeting. This issue was supported by the Task Group on Climate Change Mitigation, led by the Institute of Civil Engineers- United Kingdom. Newsletter #10 – September 2013 focused on the WFEO Model Code of Practice for Sustainable Development and Environmental Stewardship. It was published in the last week of August. Both newsletters were placed on the WFEO-CEE portion of the website, and a limited number of hard copies were produced.</p> <p>Bahrain suggested adding the author's contact information at the end of individual articles in the newsletter. This will allow readers to directly follow-up with questions, comments or initiating follow-on discussion.</p> <p>The Chair noted that WFEO needs to confirm a new host to take over the CEE after December 2015. Engineers Canada is working to confirm a new host by November 2014 Executive Council meeting. In the final year of its term, Engineers Canada will work with the new host to prepare the next four-year strategic plan.</p> <p>The last two newsletters in 2015 should focus on the future as well as examining successes, obstacles and lessons learned for the committee as a whole as well as among the various themes. This reflection and planning for the future will help CEE continue as a vibrant committee.</p> <p>Options on themes for the two 2014 newsletters included:</p> <ol style="list-style-type: none"> 1. Cover two of the existing strategic plan themes 2. Cover water and air issues 3. For the issue in fall 2014, focus on best practices in sustainable infrastructure. This is the theme of the conference being organized by the Nigerian Society of Engineers as part of the Executive Council meeting in November 2014 <p>There was general agreement on the theme of sustainable infrastructure for the fall 2014 newsletter. No strong consensus emerged on the spring issue so it was left to the Chair and Secretary to decide.</p>	<p>Future newsletters to include contact information on article authors.</p> <p>Agreement on the schedule for newsletter publication and the themes for each issue.</p>
9.	<p>OTHER BUSINESS</p> <p>There were several other items of business that were discussed to conclude the business meeting.</p> <p>9.1 Workshop on infrastructure Climate Risk Assessment: Tools and Processes at WES2013</p> <p>The WFEO-CEE, World Meteorological Organization (WMO) and Institute of Engineers Singapore have organized a one-day training workshop on</p>	



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	<p>September 10 as part of the World Engineering Summit. There are approximately 20 registered participants. The CEE Secretary, D. Lapp, FEC, P.Eng. is the Lead Trainer.</p> <p>The workshop teaches the principles and applications of the PIEVC Engineering Protocol, which is a structured process to identify the vulnerabilities and assess the risks of current and future climate to existing and planned infrastructures. The Protocol was developed in Canada and applied to a wide range of infrastructures systems ranging from an individual building to a complete potable water system for a large urban center. It has also been used in Costa Rica and Honduras as part of the adaptation to climate change theme being led by Engineers Canada.</p> <p>The workshop includes a presentation from the WMO on climate data and projections. The WMO has started a worldwide consultation on climate data needs, and engineers are a significant user for infrastructure design and operations. WFEO has a Memorandum of Understanding (MOU) with WMO that is administered and executed by the CEE. Their contribution to the workshop included sending a senior staff member and covering their preparation and travel to Singapore.</p> <p>The material presented in the workshop is presented at a university level. Engineers Canada, as the theme leader on adaptation to climate change, has presented shorter versions of the workshop as side events at the UNFCCC meetings in Bonn for the past several years.</p> <p>9.2 Website Updating</p> <p>The Chair noted that the website is the primary vehicle for placement and retrieval of information and results. WFEO headquarters has dedicated resources to maintain the website and are very responsive to request for placing information and materials to improve the content. It is the primary means of communicating our work internationally</p> <p>He encouraged CEE members to submit materials and information on environment, sustainability and climate change related topics. These can include reports, links, studies, papers, education and training materials and so forth. He encouraged members to submit these to the Secretariat who will ensure these are sent to the webmaster and placed in the appropriate location.</p> <p>It was also suggested that countries that were attending a CEE meeting for the first time provide a point of contact in their country to the Secretariat (D. Lapp – david.lapp@engineerscanada.ca) that could be used to help disseminate information and updates within their country</p> <p>9.3 Membership Review</p> <p>The Chair requested that CEE members provide any updates to the contact information for the member listed or provide the name of the new representative. If a national member wishes to change its representative, a letter addressed to D. Danyluk as Chair with a copy to the Secretariat (D. Lapp) is necessary. It was noted that only official representatives are eligible to vote on motions of the committee, but all persons can observe the meetings and participate in the discussions.</p>	<p>CEE members submit materials and information to CEE Secretariat for placement on WFEO website and dissemination to others</p> <p>New attendees to CEE meeting to provide a point of contact to CEE Secretariat</p> <p>CEE members to provide updated contact information to the Secretariat or national member submit a letter to nominate a new</p>



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	<p>It is a challenge to improve the participation of national members in the CEE's work. Any ideas on ways to improve engagement are always welcome.</p> <p>9.4 1st Energy Management Conference and Exhibition - Bahrain This very large conference is being held in early December 2013. There is a great interest to reinforce the conference by securing good speakers. Information on nominating speakers and the conference itself is at www.enegymanagement.bh. Payment of travel expenses for speakers is available.</p> <p>The contact is Mr. A.M. (Majeed) Al-Gassab: (amalgassab@gmail.com)</p> <p>9.5 Infrastructure Sustainability Council of Australia (ISCA) D. Hood provided an update on the work and progress of this group, which supports a rating system for infrastructure projects similar to LEED. The notion is to embed sustainability into infrastructure projects and make it a driver and best practice that improves the bottom line and reduces various forms of risk.</p> <p>The ISCA is the leading industry body advancing sustainability in Australia's infrastructure. It is a member-based, not-for-profit industry (public and private) council. Extensive information on the council and its work is at www.isca.org.au</p> <p>The council administers an Infrastructure Sustainability (IS) rating scheme and its formal application to the design, delivery, and operation of infrastructure projects and assets. It is similar to the Envision rating system that is being operated in the United States – ASCE is a partner. The rating scheme is assessing to nine projects with a capital value of over 10 billion Australian dollars. It has been applied to public and industry infrastructures. No mining infrastructures have been assessed.</p> <p>Individuals can undertake training to become an Infrastructure Sustainability Accredited Professional (ISAP) that is administered by the council.</p> <p>The council published a report 'Why Infrastructure Sustainability is Good for Your Business' last year. It is available through Engineers Australia.</p> <p>Australia is establishing an Asset Institute that will engage in global research of assets in collaboration with industry. It has secured partial funding from seven members and is seeking a three more to meet its funding needs.</p> <p>There as mention of a study of four infrastructure sustainability rating tools that describes their strengths and weaknesses from an engineering perspective.</p>	<p>representative.</p> <p>Meeting participants to suggest high level high quality speakers to Bahrain contact.</p> <p>D. Hood to provide link to sustainability rating tool review report</p>



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10.	<p>2011-2015 STRATEGIC PLAN UPDATE</p> <p>The first part of the afternoon session was devoted to the strategic plan. The version dated September, 2012 was distributed as part of the meeting materials. It was revised to reflect the results of discussions at the 2012 meeting in Slovenia.</p> <p>Each theme leader reported on their progress. The following is a summary of their remarks.</p> <p>THEME 1 – ADAPTATION OF INFRASTRUCTURE TO CLIMATE CHANGE</p> <p>Work on this theme focuses on climate risk assessment of infrastructure and promotion as a best practice for engineers. Theme Leader Darrel Danyluk reported on activities and progress over the past year:</p> <ol style="list-style-type: none"> 1. Completed the Honduras Highway Bridge Project – July 2013 <ul style="list-style-type: none"> • Assessed climate risks to four highway bridges in Honduras using the PIEVC Engineering Protocol • Reviewed and advised on adjustments to bridge design and construction codes and standards and procurement policies and procedures to include consideration of climate change • Developed capacity of Honduras engineers to undertake infrastructure climate risk assessment in partnership with WFE O national member - Colegio des Ingenieros civiles de Honduras (CICH) and the Honduras meteorological service • Developed of educational materials on the Protocol and the results of the Honduras and Costa Rica projects • Delivered educational materials to Honduras and Costa Rica engineering students through an on-line classroom environment <p>This project was funded by Canadian Federal government with in-kind contribution from Engineers Canada. It was managed by Engineers Canada in partnership with CICH, The project started in January 2012 and was completed in July 2013. A summary article was included in the meeting materials.</p> 2. Written submission to UNFCCC Nairobi Work Program – July 2013 <ul style="list-style-type: none"> • Provided written input for upcoming report risk management for loss and damage associated with climate change impacts 3. Delivered a workshop at the UNFCCC Bonn Meetings – June 2013 <ul style="list-style-type: none"> • Title: Local and Regional Knowledge Development and Capacity-Building to Adapt Bridge Structures in Honduras • Building country-level and regional adaptive capacity to improve the resilience of transportation infrastructure through enhanced climate information, risk assessment and regulatory processes. • Presented the results of the Honduras project and the lessons learned in developing capacity. • Delivered in partnership with Canadian Federal government 4. Presentation on World Federation of Engineering Organizations Capacity Building at 2nd Durban Forum on Capacity-Building – UNFCCC Bonn Meetings – June 2013 <ul style="list-style-type: none"> • WFEO (D. Danyluk) was invited to speak to UNFCCC delegates on our capacity-building work in Costa Rica and Honduras • First time the WFEO has been able to speak directly to UN delegates on the negotiating teams • 	
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Item	Summary of Discussion	Decisions:
	<p>This work has caught the attention of some of the International Financial Institutions, the German International Development Agency (GIZ) and a broad variety of countries. It has generated requests for presentations in Chile, Barbados and at the Inter-American Development Bank in the fall of 2013 and winter of 2014.</p> <p>The process within the PIEVC Engineering Protocol enables infrastructure engineers think as engineers when considering climate. Engineers know infrastructure but much less about climate effects except through design criteria. The question is do climate design criteria exist, and if so, are they still applicable. Assessing vulnerabilities and risks allow and risks enables prioritizing, planning and budgeting for making engineering decisions to adapt the infrastructure and improve its resilience.</p> <p>Next steps include attending the UNFCCC Conference of the Parties – Meeting No 19 (COP-19) in Warsaw, Poland in November. There we will talk to representative countries as well as observers such as GIZ to plan strategies for further engagement and profile.</p> <p>Discussion of next steps included the idea to increase our profile on this issue with the UNFCCC delegates of the countries where WFEO has national members. The following steps were suggested:</p> <ul style="list-style-type: none"> • WFEO national members get the names and contact information of their country delegates to the UNFCCC (or at least the lead negotiator) • CEE Chair and Secretary develop an initial presentation and set of speaking notes on recommended adaptation policies and recommendations that would build in-country capacity to adapt civil infrastructure to improve its resilience to changing climate • WFEO national members to present these policies and recommendations to their national governments and delegations to the UNFCCC • CEE Chair and Secretariat to prepare a generic “model” proposal for case study and capacity-building for infrastructure climate risk assessment to present to targeted countries • Set a target of 30 countries for briefings by COP-20 (December 2014) <p>In addition, more case studies and assessments as well as capacity-building through training workshops are additional possibilities subject to the availability of adequate financial and human resources.</p> <p>THEME 2 – CLIMATE CHANGE MITIGATION</p> <p>Hayley Coleman presented on behalf of Theme Leader P. Jowitt, who was unable to attend. She noted that ICE Co-Chairs this theme with the Institute of Mechanical Engineers (IMechE), which manages the Future Climate Engineering Solutions (FC-ES) project on which much of the work on this theme is focused. The Co-Chair from IMechE is now Mr. Daniel Kenning. He replaces Dr. Alison. Cooke who retired from the project and the Co-Chair in the spring of 2013.</p>	<p>CEE national members to obtain names and contact information for their country delegates to the UNFCCC.</p> <p>CEE Chair and Secretariat to develop a presentation and speaking notes that includes WFEO policy statements on climate change</p>



Item	Summary of Discussion	Decisions:
	<p>The project is focusing on the application of existing technologies for GHG reduction, and is very focused on engineering feasibility and solutions. One of the aims will be for WFEO member countries to complete country reports, which will be used to advise governments and the United Nations towards implementing these solutions for GHG reduction.</p> <p>The background on the FC-ES project and its evolution was described:</p> <ul style="list-style-type: none"> • Started by the Danish Institute of Engineers (IDA - not a member of WFEO) • Spent 500K to prepare a report on mitigation measures to reduce GHGs that included 11 countries in the initial Phase 1. Information on Phase 1 and the country reports can be found at www.fc-es.net • Each country prepared a report and all except India concluded that existing technologies could reduce GHGs significantly. India's GHGs would increase but by much less. • The people who can implement these technologies are engineers in the country • The project has gone through two phases and a third is underway. After Phase 1, led by IDA, the leadership was transferred to IMechE, led by Dr. A. Cooke. • Several more countries completed country reports in Phase 2. Total number of countries is now 15 • Phase 3 has focused on the development of country energy plans that focus on GHG reductions as a key objective. <p>Ideally all WFEO member countries would do a country report.</p> <p>H. Coleman noted that the Commonwealth Engineers Council would be holding a workshop on the FC-ES project at its upcoming meeting later in the week. The report from this workshop will be posted on the WFEO-CEE portion of the website. There will also be a presentation on the project at the World Engineering Summit Session 6 later in the week.</p> <p>D. Hood reported on the work of a group known as Beyond Zero Emissions (www.bze.org.au), which is a not-for-profit research and education organisation known for its work designing and implementing a zero emissions economy for Australia. They recently released a Zero Carbon Buildings Plan that uses existing technologies and best practices. Electronic copies of the executive summary and the full plan can be downloaded from the website.</p> <p>THEME 3 – ENGINEERING AND AGRICULTURE</p> <p>Theme Leader F. Thabet is recruiting members to join the task group. Presently there are two other members from Morocco and Canada with a goal of six or seven. to make the engineering voice louder in the agricultural sector. Each national member should consider nominating an engineering expert to join the task group.</p> <p>For the past several years, the WFEO-CEE has worked with the Farming First organization on farming and food security issues within the UN Commission on Sustainable Development.</p>	<p>Circulate FC-ES Phase 3 framework and accompanying notes to all meeting attendees.</p> <p>Post CEC report on FC-ES workshop on WFEO-CEE website when available.</p>
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Item	Summary of Discussion	Decisions:
	<p>Farming First is a coalition of multi-stakeholder organizations, not an organization. The coalition exists to articulate, endorse and promote practical, actionable programs and activities to further sustainable agricultural development worldwide.</p> <p>Farming First enjoys the support of 131 organisations representing the world's farmers, scientists, engineers and industry as well as agricultural development organizations. It is also well connected to the Food and Agriculture Organization of the United Nations.</p> <p>WFEO-CEE provides a supporting role to read and review documents to assure accuracy from an engineering viewpoint. This is an example where engineers are not the leaders but supporters. The expertise of engineers needs to be harnessed to deal with agriculture issues such as reducing losses and improving transport. Much food is lost in storage and wasted in transport and consumption. Improved efficiencies in storage and transport would make a big difference.</p> <p>More volunteers with a wider range of appropriate expertise are needed to review documents produced by Farming First and other international NGOs and IFIs. The African Development Bank would like access to engineering experts to advice on a wide range of agricultural issues. Agriculture requires many different disciplines of engineering to solve problems.</p> <p>The requests and responses would be coordinated through the Engineering and Agriculture Task Group and the CEE Secretariat. This is a great opportunity for the profession to be significantly without the need to lead. Levels of effort can therefore be more easily controlled. The Task Group needs people's expertise and not dollars to meet this need.</p> <p>Several members committed to help find volunteers to join the task group or be willing to provide review and advice:</p> <ul style="list-style-type: none"> • Engineers Australia • Nigerian Society of Engineers would help find expertise in Africa • It was suggested that volunteers be recruited through the regional Vic-Presidents of the CEE • WFE O Headquarters could also assist in seeking volunteers through other national members who do not participate in the CEE <p>It was noted that food security is not only a huge issue within the United Nations, but also for the International Financial Institutions.</p> <p>Chair D. Danyluk proposed that we develop a roster of experts in the many facets of agricultural engineering. Such a resource could be offered to these organizations with the message that WFEO and its members have the people to review and offer advice/solutions. This effort will have to be sustained over the long-term to ensure we can deliver.</p> <p>F. Thabet reported on preliminary plans to organize an expert meeting on sustainability and food security in Africa later in 2014. Priorities for the sustainable development agenda post 2015 are underway and food security is a priority. A draft concept note was included in the meeting materials.</p>	<p>Secretariat to follow up with CEE national members to recruit expertise and members for the Engineering and Agriculture Task Group and support its review and advisory work.</p>



Item	Summary of Discussion	Decisions:
	<p>THEME 4 – SUSTAINABILITY AND MINING</p> <p>Theme leader N. Trivedi delivered a presentation on the 2012 strategic plan for the committee and its progress to date. A copy of the presentation is attached to the minutes.</p> <p>The overarching goal of the work is capacity-building. The group focuses on small to medium sized mining companies that do not have resources or focus on sustainability. Most of the biggest mining companies do have such resources so the task group's work is less relevant. Other groups served include government authorities, other NGOs and the general public.</p> <p>Membership has a wide geographical and regional representation. This is needed because mining occurs in most places of the world, and involves a broad spectrum of people. Membership continues to grow – three new members were recruited at the 2012 meetings in Slovenia and five from the Milos conference in July 2013. The locations of membership are periodically reviewed to identify gaps in coverage. The task group is open to new representatives from the CEE or arranged through national members.</p> <p>There are four members in a core group, including the Theme Leader and Secretary that serve and coordinate the total membership. The remaining task group members are at large. Membership is fluid but no one has left since joining. Communication with committee members is through a bulletin board (www.smenet.org).</p> <p>The mining industry is a large user of water and destroyer of water. A significant effort is required to mitigate through strategies such as re-use, recycling and repurpose. The committee is developing booklets and guidelines. They are using the World Federation of Engineering Organizations Capacity-Building Guidebook to construct their own booklets that provide checklists for the target groups. In the next year the Task Group intends to develop an on-line tool box for risk analysis</p> <p>The 6th International Conference on Sustainable Development in the Minerals Industry (SDIMI) was held on the Greek island of Milos in late June 2013. The conference was entitled “Milos+10: Incorporating Sustainability into the Educational Process”. D. Danyluk attended and delivered a well-appreciated presentation. It was a very good event that increased the awareness of the WFEO.</p> <p>The objective of the conference was to assist the minerals industries in their global transition to sustainable development. It had been ten years after the first conference in 2003 which produced the Milos Declaration on Sustainability. The 2013 conference developed another declaration which is under review by the Society of Mining Engineers and will be released when ready.</p> <p>There is a willingness to involve young engineers to sustain the work. There are great opportunities for collaboration with other WFE O standing committees such as capacity-building and women in engineering. The Task Group would like to see collaboration with UNESCO for capacity-building in several regions or individual countries. If funding can be secured, a capacity-building workshop in South Africa with the small to medium-sized mining</p>	<p>N. Trivedi to provide a copy of the Milos SDIMI 2013 Sustainability Declaration for posting on the WFEO website after public release by SME</p>
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Item	Summary of Discussion	Decisions:
	<p>Companies will be organized in 2014. It was noted that the Chair of the Capacity-Building Committee is from South Africa so collaboration could be explored.</p> <p>M. Sanio encouraged collaboration with the PanAmerican Union of Engineering Organizations (UPADI) to share knowledge with small mining companies in Latin America. There is considerable illegal mining and poor practices that could be reversed with collaborative and localized capacity-building efforts.</p> <p>Chair D. Danyluk summarized his observations on the Task Group on Sustainable Mining:</p> <ul style="list-style-type: none"> • The SDIMI July 2013 conference involved the who's who of the mining industry • Public perception of mining is way off what is really happening • Good focus on the small and medium mining companies where need for capacity-building is greatest • The proposed capacity-building workshop in South Africa would be enhanced with cooperation of the Committee on Capacity Building whose Chair lives in South Africa • UNESCO has asked WFEO to attend meetings to pursue cooperation – a proposal on training small and medium mining companies on sustainable engineering practice would be a great example • All the pieces for success are there <p>THEME 5 – WFEO MODEL CODE OF PRACTICE FOR SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL STEWARDSHIP</p> <p>Chair D. Danyluk explained that he is seeking a formal endorsement on the Approval Draft of the Model Code as it stands. He would like the CEE's authority to present it to the Executive Council for their approval to table at the General Assembly.</p> <p>This work was a carry-over from the first strategic plan and required several years of effort. It was prepared by volunteers on the national Environment and Sustainability Committee of Engineers Canada. The development consultation process was very lengthy and required considerable time to complete.</p> <p>The process included a review of all existing guides and subject-related matter. Versions of the draft were review internally and a Review Draft was circulated to all national and international members of WFEO. Not all members responded, but a significant number did provide comments and suggestions. Almost all of them were incorporated into the final version.</p> <p>It is in two parts – 10 principles on one page that are the Code of Practice. The second document is an Interpretive Guide that provides amplification and explanation of the ten principles. Together these documents constitute the Model Code of Practice.</p> <p>D. Danyluk reported that UNESCO wishes to put its signature on the final document and promote it among its constituency. A signing ceremony will</p>	



Item	Summary of Discussion	Decisions:
11.	<p>be arranged at the Executive Board meeting at UNESCO offices in April 2014.</p> <p>D. Lapp explained that work on this theme will continue for the remainder of Engineers Canada's term as host and chair of the CEE. There is an urgent need to raise awareness through presentations, educational workshops and seminars and formalized training. We will have to examine how to get it incorporated into engineering curriculum.</p> <p>There was discussion around assessment tools that could measure progress towards achieving the goals of the Code of Practice. How can we judge if a project is more or less sustainable. Measurement tools may need to be developed as well as methods to document progress.</p> <p>There was unanimous approval of the Code of Practice and for D. Danyluk to table it at the Executive Council for their approval to forward to the General Assembly for adoption.</p>	
12.	<p>2011-2015 STRATEGIC PLAN REVIEW</p> <p>Chair D. Danyluk noted that we have completed two years of the four-year plan. There are no prospects or plans to add any other themes.</p> <p>It was agreed there was no need to discuss the [plan further. The Secretary will edit the plan to reflect the progress to date and the removal of Theme 6. The edited plan, dated September 2013, will be sent to WFEO headquarters to replace the September 2012 version on the website.</p> <p>The Chair noted that this completes the annual review of the plan for 2013. It may undergo one final edit in late 2014 to reflect the progress of the individual themes at that time.</p>	<p>Secretary to edit the Strategic Plan to reflect the results of the September 2013 meeting and submit to WFEO Headquarters for the website update.</p>



Item	Summary of Discussion	Decisions:
13.	<p>INTERNATIONAL ORGANIZATIONS LIAISON</p> <p>Over the past year the WFEO has pursued or supported the development and, in some cases, renewal of working relationships with other international organizations. The CEE has been involved directly and indirectly.</p> <p><u>OECD</u></p> <p>In early 2013, the CEE took the lead on pursuing collaboration with OECD though work on projects of mutual interest and benefit. A teleconference was held between OECD staff and representatives and the CEE Chair, Secretary and several theme leaders to discuss project possibilities.</p> <p>It was noted that the WFEO can provide experts, but have to recover costs to participate e.g. travel. This makes negotiations difficult because OECD is also looking for external funding for projects – the same as WFEO.</p> <p>Most of the staff at OECD are economists while WFEO are engineers. It has proven difficult to come together to identify and work on common issues. The issue of closest common interest is climate change. OECD also has an interest in agriculture but more on the economic impacts and benefits and much less on technical areas.</p> <p>In recent months there have been several false starts to resume discussion on projects of mutual interest and benefit. The relationship with OECD will be developed over the longer term by P. Jowitt and H. Coleman of ICE.</p> <p><u>World Meteorological Organization (WMO)</u></p> <p>Chair D. Danyluk negotiated an ambitious Memorandum of Understanding (MOU) between WFEO and WMO that was signed in October 2012. A copy of the MOU was provided with the meeting materials.</p> <p>The MOU has been used to build a solid working relationship between the two organizations. Some of these activities were reported earlier in the meeting.</p> <p>WMO has a keen interest to understand engineers' needs for climate information. There is discussion to form a joint task group to develop and oversee a process to engage with engineers.</p> <p>WFEO was invited to a workshop on climate services at the beginning of July 2013. A representative attended and prepared a report that was included in the meeting materials.</p> <p><u>International Science Council (ICSU www.icsu.org) and International Social Science Council (ISSC www.worldsocialscience.org)</u></p> <p>WFEO Co-Chairs (with ICSU and ISSC) the Major Group on Science and Technology. Nine Major Groups are recognized by the United Nations to represent civil society. WFEO's Co-Chair is Mr. Jorge Spitalnik. The Major Group gets involved in the review of UN documentation on sustainable development.</p> <p>The Major Groups are engaged in a lengthy process to define Sustainable Development Goals to replace the Millennium Development Goals by 2015.</p>	



Item	Summary of Discussion	Decisions:
14.	<p>NEW BUSINESS</p> <p>D. Danyluk reported that the document “Environmental Impacts of Major Sporting Events (Olympic Games)” has been published and distributed to over 60 national and international sports organizations, Hard copies are available through the Secretariat. The report was one of the outcomes from a theme in the 2008-2011 strategic plan of the Committee.</p> <p>M. Sanio informed participants of the 1st International Conference on Sustainable Infrastructure being organized by the American Society of Civil Engineers from November 6-8, 2014 in Long Beach California. The overall theme is on how to build sustainability into infrastructure systems. Information on the conference can be linked through the front page of the WFEO website (www.wfeo.net). In the coming months, individuals and organizations will be approached to sponsor and/or organize sessions. It is hoped that WFEO will engage as a non-financial sponsor and promoter of the event.</p> <p>The target is 350 attendees and proceedings for about 200 papers. The plan is to organize the conference every two years.</p> <p>It was noted that the conference dates potentially conflict with the WFEO Executive Committee meetings in Nigeria.</p>	
15.	<p>NEXT MEETING</p> <p>The next face-to-face Meeting #7 will be held in Abuja, Nigeria on November 2, 2014. Meetings of the WFEO Executive Council will be held in the following days. As well there will be a World Engineering Conference on Sustainable Infrastructure (www.wecsi2014.org.ng)</p> <p>The Chair thanked everyone for their participation. Many good points and ideas were presented and the work was progressing well. He was thanked by the meeting participants and acknowledged for chairing a good meeting.</p> <p>The Chair was congratulated by President-Elect Marwhan Abdelhamid for his continuing leadership of the Committee. The CEE is a model for others to follow.</p>	<p>Next face-to-face meeting to be held in Abuja, Nigeria on November 2, 2014</p>