

WORLD FEDERATION OF ENGINEERING ORGANIZATIONS BIENNIAL REPORT



2005 - 2007

WFEO's Vision



The World Federation of Engineering Organizations

Founded in 1968 by a group of regional engineering organizations, under the auspices of the United Nations Educational, Scientific and Cultural Organizations (UNESCO) in Paris, the World Federation of Engineering Organizations (WFEO) is a non governmental international organization that brings together national engineering organizations from over 90 nations and represents some 15 millions engineers from around the world.

VISION

WFEO is the internationally recognized and chosen leader of the engineering profession and cooperates with national and other international professional institutions in being the lead profession in developing and applying engineering to constructively resolve international and national issues for the benefit of humanity.

MISSION

- To represent the engineering profession internationally, providing the collective wisdom and leadership of the profession to assist national agencies choose appropriate policy options that address the most critical issues affecting countries of the world.
- To enhance the practice of engineering.
- To make information on engineering available to the countries of the world and to facilitate communication between its member nations of worlds best practice in key engineering activities.
- To foster socio-economic security and sustainable development and poverty alleviation among all countries of the world, through the proper application of technology.
- To serve society and to be recognised by national and international organisations and the public, as a respected and valuable source of advice and guidance on the policies, interests and concerns that relate engineering and technology to the human and natural environment.

OFFICERS AND EXECUTIVE COUNCIL MEMBERS (2005 / 2007)



President
K. AYADI (Tunisia)



President Elect
B. Grear (Australia)



Past President
Y.CH. LEE (Malaysia)



Vice President
R. Jones (USA)



Vice President
W. Miszalski (Poland)



Vice President
S.H. Park (Korea)



Vice President
M. Prieto (Spain)



Vice President
G. Toledo (Puerto Rico)



Vice President
H. Shihabi (Bahrain)



Vice President
J. Spitalnik (Brazil)

- **Treasurer**
S. IOAKIMIDIS (Greece)
- **Vice President**
J. F. Gasca (Mexico)
- **Vice President**
M. Rwimi (Libya)



Vice President
B.J. Vasoya (India)

National Members

- S. Aoun (Lebanon)
- J.C. Badoux (Switzerland)
- C. Ballester (Argentina)
- G. Baron (France)
- H. Bedelian (UK)
- W. Fuchs (Germany)
- A. Gava (Italy)
- P. Greenwood (Australia)
- L. Lerner (Brazil)
- M. Mihaita (Rumania)
- C. Remec (Slovenia)
- Y.X. Zhong (China)

International Members

- O. Awoyinfa (FAOE)
- CH.K. Beng (AFEO)
- C. A. Dall'Acqua (UPADI)
- S. Devkota (FEISCA)
- W. Fuchs (FEANI)
- A. Al Hadithi (FAE)
- A.Z. Laidin (FEISEAP)
- T. Ridley (CEC)
- V. Sitsev (USEA)
- J. Toth (RCC)

WFEO Members

WFEO is a Network based
on collaborative work



President's Message



WFEO, from Puerto Rico to India 2005-2007

By Kamel Ayadi ,President of WFEO

Delhi will be hosting the WFEO General Assembly in November 2007. This biennial gathering provides an opportunity for WFEO leaders and members to review and assess WFEO performance over the past two years and to explore ways of boosting WFEO activities in the future and adjusting its strategy to be in line with the changing context and evolving expectations of engineers.

When I took over the presidency of WFEO in October 2005 in Puerto Rico, I announced my plan of action for the two following years. The plan was inspired by the priorities that seemed to me urgent to address at that time. They were as follows:

- Reinforce WFEO visibility at the international level by--among other actions--consolidating its relations with international organizations, particularly with the United Nations Agencies and increasing its involvement and effective contribution to international activities and events. As the leader and voice of the engineering profession, this objective is in the core vision of the WFEO.
- Consolidate the cohesion of national and international engineering organizations to WFEO, increasing membership by attracting new members and widening membership by integrating new categories of members, thereby ensuring that WFEO becomes more inclusive and more representative of the world-wide engineering community.

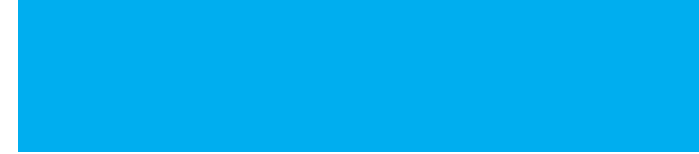
In addition to these two objectives I also assigned to myself the two following tasks:

- Set up and implement a plan of action to foster a dialogue for increasing the participation of women in the engineering profession and the workforce. This issue has become an urgent priority given the low representation of women in engineering and the disturbing decline in enrolment in engineering courses among young females, which we are currently observing in many countries.
- Improve communication in order to reinforce the WFEO as an international network and develop new synergies between WFEO members. It is amazing how communication can improve efficiency and influence change in NGOs, as well as increase their influence at various levels.
- Redress the financial situation and improve WFEO resources by among other actions cutting down expenditures and encouraging more members to pay their dues to WFEO

I understood from the discussion that immediately followed my presentation that a wide consensus emerged around the objectives I announced. This plan was the result of a close observation of WFEO over the past years and a synthesis of its strengths and weaknesses. Today, two years later, I can announce that much has been done to implement this plan and that we have achieved some concrete results. This would never have happened without the valuable contribution of our dedicated colleagues as well as the atmosphere of friendship and democratic participation that has reigned in WFEO.

WFEO visibility and relations with international organisations

Nowadays WFEO counts amongst the most visible international organisations and has been recognized in several international events including the World Summit on the Information Society as the voice of the world scientific and engineering communities. Our relations with the UN agencies and commissions have improved.



WFEO and the UNESCO

I have always paid the highest attention to our relations with UNESCO, which in my view represents the most strategic and important partner of the Federation. From the beginning of my term I have tried to strengthen ties with UNESCO's key officials. I was able to meet with Dr Walter Erdelen, UNESCO Assistant Director General six times, with Mr Barbosa, Deputy Director General, two times and with UNESCO Director General H. Matsuura. In my meeting with the DG on 10 March 2006 in his office in Paris, I strongly deplored the decline of engineering programmes in UNESCO activities and pleaded for UNESCO support for the following initiatives:

- Production and publication of an international report on the state of engineering in the world
 - WFEO initiative to empower women in engineering and Technology
 - Implementation of the Resolution regarding the 'Creation of a Cross-Sectoral Program in Technical Capacity Building'
- UNESCO has accepted to take on the two first initiatives. However, no significant progress has been accomplished on the third, despite several reminders and efforts, particularly by our colleagues in the US, who were the initiators of that resolution.

After tireless efforts to pursue the implementation of these initiatives, significant progress has been accomplished, leading to the improvement of our relations with UNESCO. UNESCO provided a significant contribution to the WFEO conference on empowering women in engineering that was held in Tunis in June 2007. Our efforts have also resulted in an increase of awareness among UNESCO's key officials that engineering efforts should be reinforced. The ongoing review of the science sector that was undertaken by UNESCO several months ago will provide a framework towards boosting engineering.

Engineering Report

UNESCO has accepted to develop and publish an International Report on Engineering to understand and address issues and challenges related to the engineering profession, such as education and curriculum, the decline in enrolment, numbers and needs, gender issues, the brain drain, etc. The Report will share information and experience and will provide practical ideas and examples for policy makers, planners and governments to address them. Promoting interest, enrolment, and engagement and application of engineering solutions to important global challenges such as poverty reduction, sustainable development and climate change. This report will serve as a useful tool for developing countries engaging in reforms in engineering education and will help them evaluate their engineering

needs both in quality and in numbers. The report will be elaborated by an Editorial Board and an Advisory Committee made up of experts from various countries providing for gender and geographical balance. The EB and the AC are being co-chaired by UNESCO Assistant Director General Walter Erdelen and myself. The report will be launched in Brasilia in December 2008 in conjunction with the WEC2008 and will be widely distributed to WFEO members and UNESCO government delegations. With this report WFEO will re-affirm its role as a valuable source of engineering advice and expertise to policy makers and to engineering organisations.

Relations with UN and other international organizations

WFEO relations with other international organisations have also improved. With the tireless efforts undertaken by Past President Dato LEE Cheong, WFEO is making a significant impact on the Millennium Development Goals. WFEO was also selected to be a member of the United Nations Alliance for ICT and Development. Past President Lee Cheong is an international adviser, and I was appointed as a member of the Steering Committee. WFEO was also admitted as an observer of the Consortium on Science, Technology and Innovation for the South (COSTIS). Membership includes among others the Ministries of Science and Technology of the 77 countries group, National Science Academies etc. After my recent talks with the COSTIS Executive Director to review WFEO status, it was agreed to reconsider that WFEO becomes a full member. I expect a decision in this regard to be made at the next COSTIS meeting in November 2007. WFEO also interacts with the UN commission on Science and Technology for Development as well as the UN Commission for Sustainable Development. WFEO is also involved in the United States Saban Center for Middle East policy activities. After having participated in February at the International Forum on the U.S Relations with the Islamic World, I was invited to serve as a member of the advisory panel for the Arab Report on Science and Technology. WFEO has also contributed to the Mondialogo Project sponsored by UNESCO and Daimlerchrysler. As WFEO President, I was invited to serve as a member of the international jury for the Mondialogo Engineering Award. WFEO was also instrumental in disseminating information about this important initiative.

Boosting Membership

Immediately after the last WFEO General Assembly, I undertook contacts with our European members whose participation in WFEO had declined over the past years.



I have particularly met with the leadership of our Portuguese and French members. I tried to better understand their expectations from WFEO and to persuade them to increase their involvement in it. Now I am delighted to notice that the CNISF is eager to do so and has offered to host a WFEO standing committee on gender. Following that meeting, I also met with FEANI President, Willi Fuchs with whom I explored ways of increasing European members' participation to WFEO and encouraging those who are not members to join in. I was delighted to notice that he shared my concerns and was ready to work towards achieving this objective for our mutual benefit. In October 2007 I was invited to address the 29 FEANI members which gathered at their annual General Assembly held in Valencia. I successfully conveyed the message that WFEO is gaining visibility and strength, which in turn have increased its ability to bring back value to its members, and that it needs additional support from them to get stronger.

In November 2006 I presented a keynote lecture at the annual conference of the ASEAN Federation of Engineering Organisations (AFEO) held in Kuala Lumpur. I conveyed the same message there and had the opportunity to meet individually with ASEAN leaders.

In March and May 2007 I successively met in Damascus and in Amman with members of the Federation of Arab Engineers. I was invited to address the General Assembly of the Federation which was held in conjunction with the triennial technical congress. WFEO is a permanent item in the FAE agenda. I also met separately with Arab members, particularly with the Saudi Council of Engineers which is a newly accepted member of WFEO. I also discussed with the Kuwait Society of Engineers about their offer to host the WFEO General Assembly in 2009. One month later I was invited to visit Kuwait where I met with several representatives of the Kuwaiti Government, including the President of the Parliament, who assured me of their full support for the hosting the General Assembly.

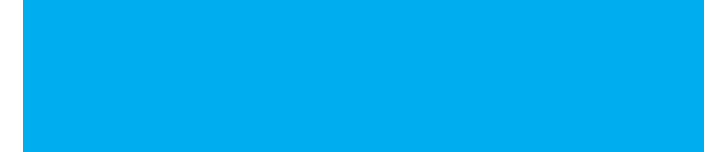
In September 2007 I met in Curitiba (Brazil) with our Latin American members who had gathered for the international conference of civil engineering. I was invited to deliver the key note lecture there.

I have travelled extensively over the past two years to more than 30 destinations to attend and address engineering events throughout the world. Whether with Arab members, Asian, European or Latin American members, I was always extremely well received which denotes how highly regarded WFEO is by its members. I was also successful in convincing Executive Council members who met in October 2006 in Chicago to extend membership in WFEO in order to integrate new categories of associate members, I thereby making WFEO structure more inclusive

and thus more representative to the worldwide engineering community. Based on that policy and with contributions from all, we managed to recruit around 15 new members. In March 2006, I met with Dr Osmane Mounif Aidi, the Chairman of the Osmane Aidi Foundation, and signed with him the agreement that formally established a new prize in Engineering Excellence. This prize will be granted for the first time in Delhi. By way of that agreement the OMAF was accepted as a distinguished associate of WFEO. To recognise WFEO partners and encourage others to join in, I have organised in Tunis on the occasion of the international colloquium on women a special gala dinner dedicated to celebrating WFEO partners and to acknowledge publicly their most valuable contribution to WFEO. A similar event will be held in Delhi at the WFEO General Assembly. Our distinguished associate the CCC has generously accepted to sponsor this event.

Gender Issue efforts

Consistent with my announced plan, I launched just immediately after the General Assembly, WFEO's capacity building efforts to increase the participation and leadership of women engineers within WFEO and the engineering profession and to enhance support for young females interested in becoming engineers. As a mainstream engineering organization with representation in 90 countries these efforts aimed at ensuring that women fully participate in, benefit from, and provide leadership for WFEO moving forward. The culmination of these efforts was the international colloquium on "Empowering Women in Engineering and Technology" which was hosted by Tunisia in June 2007 and organised by WFEO in partnership with the US Centre for Women and Information Technology (CWIT), the American Society of Women Engineers (SWE), the International Network of Women Engineers and Scientists (INWES), the UN Gender Advisory Board, and the French Women organization, "Femmes Ingénieurs". This event enjoyed great support from the Tunisian Government, the US State Department, the State of Maryland, UNESCO and many other institutions and international organisations. During the conference, approximately one hundred different presentations tackled these issues. The event was highly successful; over four hundred participants were present representing over fifty different countries on every continent. It was for the first time in the WFEO history that so many women leaders of women's engineering organisations gathered together under the auspices of the Federation. An innovative pre- and post-conference training session delivered entrepreneurship, networking, and leadership skills for selected women. This event would never have met with success without the valuable contribution of our colleagues from the United States, particularly the CCB team with Claudia Morel as the co-chair of the colloquium.



Enhancing Communication

Communication has long been one of the weaknesses in WFEO. This was the reason why I have put this activity on the top of my priorities for the current term. It is amazing how communication can change our lives and how powerful communication technologies are in boosting activities of international organisations such as the WFEO. With the establishment of the WFEO office in Tunis in December 2004 and with the help of a local team dedicated to WFEO, I have had a good platform that helped me promote communication. The management of the WFEO website was then relocated to Tunis, where a new site was developed with new functionalities and regular updates in addition to the monthly newsletter which is being disseminated to a wide range and a rapidly, even daily, increasing number of recipients, including new engineers from all over the world. 30 months after its launch, the newsletter has proven its worth as the main information tool in WFEO. The Tunis WFEO office is also providing the WFEO headquarters with support and help in publishing promotional materials. It is important to mention the support that this office enjoys from the Tunisian government, particularly after the issuing of a Presidential Decree to legalize the office and provide it with an attractive status similar to diplomatic accredited missions. Several advantages are attached to that status.

Financial Situation of WFEO

After the critical crisis of 2004, the financial situation of WFEO has considerably improved. For the first time our reserves have reached a significant level. However we should be careful in order to pursue this recovery. This improvement is the result of the conjunction of several factors:

- The wise management by our Executive Director and her continued efforts to follow up the payment of members dues.
- The valuable efforts of our treasurer and deputy treasurer
- The recruitment of new members and associates, particularly our distinguished associate OMAF
- Last but not least it is important to highlight the role of the WFEO office in Tunis in cutting down expenditures. Several activities such as communication and publication of promotional materials are being taken in charge by the Tunis office for only 10 to 15 percent the price they would have cost in Paris.

WEC2008

The preparation of the World Engineers' Convention due to be held in Brasilia in December 2008 was one of my first priorities over the past years. I undertook a

tight and close monitoring to ensure the WEC 2008 will be as attractive and successful as the two previous editions were. In this regard, I visited Brazil four times to monitor the ongoing preparation and lobby the Brazilian Government, as well as Industry and business sectors. I have met with several representatives of the Brazilian Government, including the Vice-President of the Republic and the president of the Senate. I have also worked out the communication plan for WEC with CONFEA and FEBRAE leadership, who has always shown receptiveness and good will towards meeting our requirements. The Tunis WFEO office plays a central role in this plan.

Accountability and collaborative work

Besides my plan for this term, I announced the main principles that would guide me in my leadership work. These principles were based on the following: accountability, collaborative work, collegiality, interaction and creation of new synergies between members to stimulate new initiatives. These principles are, in my view, fundamental and represent a prerequisite for leading an international NGO. I tried to put them into practice, by creating the appropriate environment to stimulate initiatives and making everyone involved and very much welcome for their contributions to WFEO. I also tried to install accountability by creating an ad hoc committee to assess the standing committees' performance. Leading by example, I invite all members to comment on my activities and assess what I have been able to achieve in relation to what I have committed myself to. I have always considered my term as president as a bridge between the future and the past. Therefore I have tried to establish strong and personal relations with each and every member and particularly with both Past President and President elect to make sure the first can continue to carry out the initiatives that he undertook during his presidency and the second to be involved in my initiatives to continue them. I am very thankful and grateful for their support. It is up to our members to assess whether I was successful or not. Some signals denote a renewed interest from our members towards WFEO, characterised by dynamism of our members and willingness to serve WFEO. This can be shown by the record number of candidates for vice presidential elections which has reached for the first time eleven for 4 vacancies and two candidates for the President Elect position. This can also be shown by the growing demand to create new standing committees. I have received proposals to create four new committees. It is with great pleasure I notice that our members now compete to serve WFEO.

Tunis , October 2007

President elect's Message

President-Elect: Barry GREAR

Over the last two years, the World Community has focused on a number of issues that the members of the Engineering Profession can, and must, take a leading role in improving understanding. To be more effective, WFEO members can become more visible by encouraging learned debate, much more reporting of the work being undertaken by the WFEO Standing Committees and the complementary work undertaken by our National Engineering Societies. The issues that I focus on are climate change, appropriate energy production and distribution, natural and technological disasters and poverty reduction.

Climate change is important for us all and the projected changes will bring difficulties to all communities. Our members can assist in ensuring the collection of reliable climate data and the use and interpretation of that data. The discussion is appropriately covering social, economic, environmental and international relationship issues. All of the WFEO Standing Committees could have the issues on their agendas.

Energy production has been raised in its profile because of the cost of fuels, the environmental impact, development of renewable energy resources and the international trading of energy. The role of WFEO members, together with key standing Committees can assist in helping the developing countries to select the most appropriate energy sources.

The evidence is clear that there will be increasingly severe weather events leading to greater incidences and severity of natural disasters. WFEO Standing Committees and National Engineering Societies should look for greater opportunities to participate in mitigation planning and the design of buildings and structures that will make communities safer. The investment in the maintenance of older structures needs to be increased and the interest and advice that the engineering profession can give to decision makers will bring rewards to communities in less disruption, and lower loss of life.

Since the outstanding work lead by Past President Dato Lee Yee Cheong and others in the responsibility that WFEO has accepted in pursuing its responsibilities in leading the "Science, Technology and Innovation Task Force" of the Millennium Development Goals, there is concern that the reduction of interest by governments will inhibit the achievement of the goals.

In September 2005 Heads of World Governments endorsed the action plan which WFEO members agreed to pursue. Their communiqué said:

"As the Millennium Project's report makes clear, our agenda is still achievable globally and in most or even all countries — but only if we break with business as usual and dramatically accelerate and scale up action until 2015, beginning over the next 12 months. Success will require sustained action across the entire decade between now and the deadline. That is because development successes cannot take place overnight and many countries suffer significant





capacity constraints. It takes time to train the teachers, nurses and engineers, to build the roads, schools and hospitals, and to grow the small and large businesses able to create the jobs and income needed. Many of the poorest countries will need major capacity-building investments to put in place and maintain the necessary infrastructure and to train and employ qualified personnel. Sustainable economic growth will require significantly increased investments in human capital and development-oriented infrastructure, such as energy, transport and communications. In addition, small and medium-sized firms require a favorable legal and regulatory environment, and expanded access to financial capital, including microfinance. This is crucial for providing decent jobs that both provide income and empower the poor, especially women and younger people. To increase countries' indigenous capacity for science and technology, including information and communications technology, Governments should establish scientific advisory bodies, promote infrastructure as an opportunity for technological learning, expand science and engineering faculties, and stress development and business applications in science and technology curricula."

I call on all WFEO members to re-engage in supporting Dato Lee Yee Cheong and others to achieve the Goals and not let the 2015 date be extended. The challenge will be to support any proposals with action, not just talk.

In the issue of Poverty Reduction it will be important for WFEO to also engage further with other groups working with complementary aims such as EWB (Engineers Without Borders), RedR (Registered Engineers for Disaster Relief), EPR (Engineers for Poverty Reduction) and others.

I believe that there are 7 key themes in the work of relieving poverty: Water, Sanitation, Shelter, Energy, Communication, Security, Education. WFEO and its Standing Committees can collectively consider them all.

In considering all of the above issues that I have highlighted, it seems appropriate to remind ourselves of the WFEO Mission.

To represent the engineering profession internationally, providing the collective wisdom and leadership of the profession to assist national agencies choose appropriate policy options that address the most critical issues affecting countries of the world.

To serve society and to be recognised by national and international organisations and the public, as a respected and valuable source of advice and guidance on the policies, interests and concerns that relate engineering and technology to the human and natural environment.

To make information on engineering available to the countries of the world and

to facilitate communication between its member nations of world's best practice in key engineering activities.

To foster peace, socio-economic security and sustainable development among all countries of the world, through the proper application of technology.

In reviewing the Annual Reports of the last decade, it is evident that the dedication of Presidents and many other active Standing Committee Chairs and individuals who have undertaken significant projects across a wide range of important issues has been extemporaneous. The other observation is that as the leadership has changed many important activities have lapsed.

At the General Assembly in November 2007 in New Delhi arrangements have been made to revive the practice of all Standing Committee Chairs meeting together. I will chair that meeting and will aim to have an improved distribution of responsibilities. I will also seek support to recommence some lapsed activities that were being undertaken in recent years.

I have welcomed the increasing number of individuals who in 2005, and now in 2007, have been nominated for positions on Executive Council. For WFEO to become more effective in meeting its mission, we need to increase the number of engineers who become active in the Standing Committees and their own Regional and National societies.

I have focused on the Standing Committees as it is within that structure that individual members of different disciplines, different industries and from countries spread around the regions of the world can bring their knowledge and experience together for the benefit of WFEO and world communities.

Once again WFEO has the chance to showcase itself at the WEC2008 in December 2008 in Brasília. This important international event will be held in conjunction with the 2008 Executive Council meeting. I request all to support this event as a world event and to encourage colleagues to participate.

I will be assisting President Kamel Ayadi in continuing the outstanding work and enthusiasm demonstrated by the participants in the Tunis Colloquium on "Empowering Women in Engineering and Technology", and believe the recommendations of the Carthage Declaration need wide discussion and support.

My personal activities since the General Assembly in Puerto Rico have been broad ranging. The opportunity to meet many members and be welcomed and given advice and encouragement has been helpful to me.



I list some of those activities for the record and your interest.

I have once again reviewed the Constitution and Rules

I took over leadership of the very difficult and long standing issue of the number and value of shares to be paid by each member and the penalty for non payment. I have updated the Strategic Plan with the help of Executive Board members and it is now presented in a much simpler form.

I have finalized an MOU with CAETS which was signed by the President in Chicago. I attended the 17th CAETS Convocation in Tokyo in October 2007.

I have drafted an MOU with FIDIC which has been supported by our respective Executive Boards and it is hoped it can be signed in New Delhi.

The Standing Committee on Energy has also signed a MOU on behalf of WFEO with the International Energy Council.

As a result of people becoming aware of these MOU's I have been approached by representatives of other international bodies who have suggested preparing similar documents for their own consideration, i.e. Engineers Without Borders and RedR International. I am open to other suggestions of international organizations to arrange partnerships.

I have also acted as moderator for the Judging Panel for the Associate and Engineering Excellence awards. These awards need more support by all of us so that a wider group of nominations can be received.

I also undertook a number of visits.

In March 2006 I attended the Executive Board held in Budapest and attended the March 2007 Executive Board in Paris.

In March 2006 I attended the 7th World Congress on Engineering Education and Training and spoke on the topic "The concept of a world engineer".

In conjunction with that visit I spent 3 days at the WFEO office with Tahani Youssef and Tony Marjoram.

In May 2006 I visited London and met with the President, Chief Executive, WFEO representatives Tony Ridley and Haro Bedelian and many elected members of the ICE. I also met the Royal Academy of Engineering International Vice President, Following the above visit I went to Tunis to meet with representatives of the FAE and took the opportunity to spend a week at the WFEO Tunis Office and undertake planning with the President. I met the voluntary supporters who are assisting in administrative activities. I believe it will be important to support the continuation of this office.

In June 2006 I was invited, with the President, to attend the ASCE think tank on the "role of Civil Engineers in 2025".

In September 2006 I attended the NCEES Annual meeting in Anchorage to pursue my intense interest in the international mobility of engineers. I was also able to attend their 2007 Annual meeting in Philadelphia.

In September 2006 it was a pleasure to represent WFEO at the Annual Pan American Academy of Engineers and UPADI meetings in Atlanta Following the Executive Council Meeting in Chicago I attended the ASCE Annual Conference "Surviving the future" and made a presentation.

In March 2007 in Brasilia and August 2007 in Rio de Janeiro I attended the International Advisory Board Meetings for WEC2008.

In May 2007 I visited 4 states in USA to negotiate the engineers registration issues related to the USA-Australia Free Trade Agreement.

In May 2007 I attended the Federation of Arab Engineers Conference in Amman, Jordan.

In June 2007 I attended the Tunis Colloquium "On Empowering Women in Engineering and Technology".

In July 2007 I chaired the RedR International General Assembly in Kuala Lumpur. I have enjoyed the contact and friendship of many people and recognize the significant support of Engineers Australia, its officers and many of my colleagues. My wife Barbara has been a great secretary, encourager and sometimes traveling companion.



FINANCIAL REPORT OF THE TREASURER

By Stefanos I. Ioakeimidis

Our Organization, the World Federation of Engineering Organizations (WFEO), founded in 1968 by a group of regional engineering organizations, under the auspices of the United Nations Educational, Scientific and Cultural Organization (UNESCO), in Paris, will celebrate next year 2008, 40 years of existence, as an International Non Governmental Organization, bringing together regional and national engineering organizations of over 95 nations, representing some 15 millions engineers from around the world.

We are proud, because the close and sincere cooperation of the engineers of all the continents, is our real power. In the year 2008, year of the celebration, of our 40th anniversary, we will have the right to tell our Members that we had Presidents of WFEO coming from Asia, Africa, America, Australia and Europe. We had Officers and Executive Council members, coming from many Nations. This is a very positive fact, demonstrating that engineers play a crucial role in the collaboration between Nations and Peoples, in peace, comprehension, in the improvement of living standards and in the progress towards sustainable development

This is the Mission of WFEO.

In order to fulfill this noble Mission, we created our Standing Committees:

- Committee on Engineering and the Environment
- Committee on Information and Communication
- Committee on Education and Training
- Committee on Technology
- Committee on Capacity Building
- Committee on Energy

We also created Working Groups and Task Forces as follows:

- WG in charge of contact with the United Nations
- WG in charge of leading WFEO towards combating corruption
- WG in charge of Gender issue

Task Force in charge of drafting a book of specifications for hosting WFEO events (General Assemblies, EC meetings, the World Engineer's Convention [WEC], etc..)

WG in charge of Communication

WG in charge of public statement and key issues

WG in charge of developing membership and associates.

The accomplishment of all these duties, needs the hard work of our Administration in Paris, the help of the Administrations of our National Members and the regular payment of the financial contributions of our Members, which are the main financial resource we have.

I have to repeat, once again, that my personal view, concerning our financial policy, is that it must be conservative. In any case (even if this means reducing or stopping some activities) we must have at any moment the possibility and the financial reserves, to finance the administrative cost of WFEO for one year.

Up to now, our financial situation is normal and I hope that our reserves at the end of the year/period, will be, according to 2007 Budget: 1 645 56 Euros.

The effort to face our financial problems (today 1 Euro = 1,40 USD) is a collective one. The President of WFEO Kamel AYADI, the President-Elect Barry GREAR, the Past President Yee Cheong LEE, the Executive Director of WFEO Tahani YOUSSEF, the Deputy Treasurer Pierre-Edouard de BOIGNE, the members of the Financial Committee, the members of the Executive Council and of the Executive Board are all participating in this effort.

Stefanos I. Ioakeimidis
Treasurer of WFEO

Treasurer's Report

WFEO MAIN ACTIVITIES



WFEO and United Nations

Under strong encouragement from President Kamel Ayadi and the Executive Council, I have continued to forge close ties between the United Nations and WFEO. The initiatives I have been closely associated with are summarized below:

- **UN Global Alliance for ICT and Development**, an initiative of UN New York as follow-up of WSIS Tunis, was launched in Kuala Lumpur June 2006. Kamel Ayadi is a member of the Steering Committee and I am an international advisor.

- **The UNESCO/WFEO Seminar on History of Islamic Science, Engineering and Technology**, March 2006 Paris was followed by an International Conference on Islamic Science, Technology and Innovation (S.T.I) in August 2007, Kuala Lumpur. Speakers included Nobel Laureate Professor Ahmed Zewail, Professor Jeffery Sachs, Dr. Walter Erdelen and Kamel Ayadi. Proceedings of the Conference, including videos of presentations are in website <http://www.issti.gov.my/videos.htm> UNESCO is making this an important annual event.

- **UNESCO International Science, Technology and Innovation Centre for South-South Cooperation**, The China-G77 Summit Doha requested UNESCO to help build indigenous capacity in development. Malaysia has offered to host the Centre pending approval of UNESCO General Conference, October 2007. WFEO is a sponsoring organization.

- **Consortium of STI for the South (COSTIS)**, an initiative of China-G77, UNESCO and UNDP. The proposal originated from the Academy of Sciences of the Developing World (TWAS) and signaled a key shift of UNESCO and the scientific academies toward innovations through engineering and technology for achieving the MDGs. WFEO is a founding affiliate. The inaugural Ministerial Forum is scheduled in Kuala Lumpur, March 2008.

- **United Nations University Regional Centres of Education for Sustainable Development**, an ongoing initiative from the UNU Ubuntu Declaration, WSSD 2002. WFEO was a signatory and a member of the Committee of Peers.

- **UN Commission for Sustainable Development**

Jorge Spitalnik, Chair of WFEO Energy Committee, has taken over from me representing WFEO in the annual meeting in UN New York.

- **UN Millennium Development Goals**, As a follow-up to the UN Millennium Project headed by Professor Jeffrey Sachs, Special Representative of the UN Secretary-General Ban Ki Moon, there are now 79 Millennium Villages across 10 African countries, serving almost 400,000 people. There is a desperate need for engineering input in basic infrastructure. www.millenniumpromise.org ASCE USA is responding to my appeal to interest their members and employers in responding to this appeal.

A longer term initiative has been initiated by Professor Jeffrey Sachs. The Commission on Education for International Development Professionals has been set up to structure a cross-disciplinary master degree programme initially in Columbia University but with global outreach. I am a member of the Commission, chairing the lifelong training working group.

In Kenya, I have been promoting the engagement of military engineers and their units in reducing severe capacity constraints in basic infrastructure projects in remote regions. I have had some success in getting the US Army Corps of Engineers to provide advice and guidance.

Dato Engr Lee Ye Cheong
Kuala Lumpur 11-10-2007





Report of the Executive Director By Tahani Youssef

Staff

It has been almost two years and a half now that I have been appointed as Executive Director.

The Staff of the Secretariat is still made up of one person, myself.

This situation has proven to be difficult at moments of preparation of the General Assembly and Executive Council meetings or special events such as the World Engineers' Convention or the recent Colloquium on Empowering Women in Engineering.

The Secretariat is also receiving more and more requests of information and applications for cooperation or membership that need a lot of follow up.

UNESCO is more and more heading towards intersectoral activities and the establishment of a network of contacts in the different sectors of UNESCO becomes necessary.

In my opinion, all this justifies the appointment of another person at headquarters and requires a further involvement of our Vice Presidents.

The Communication Secretariat established in Tunis was remarkably successful in increasing communication between members and keeping them informed of all what is going on in their Federation and elsewhere in the fields of interest to them. It is publishing a very dynamic WFEO e-newsletter that is very much appreciated considering the congratulations notes we receive. It is also updating the web site.

Financial Situation

The fact that all members now pay their subscriptions in Euro, the increase of the number of Associates including one new Distinguished Associate and the very strict control of expenses made it possible to rebuild the reserves of the Federation that had registered their lowest level in 2004. Nevertheless, we should remain careful. We also expect from those members who have decreased their subscription for internal reasons to do their utmost to recover their initial level of subscription soon.

Contact with members

I followed-up the efforts of President Kamel Ayadi to consolidate relations between WFEO and its members. In May 2006, I participated in the 36th meeting of the

Committee on Education and Training (CET) and the International Conference "Supporting Small and Medium-Sized Enterprises in Engineering and Technological Innovation Activities" that was organized on this occasion in Krakow, Poland. Also in May 2007, I attended the Federation of Arab Engineers' Conference on Higher Education in the Arab World in Amman, Jordan and in June 2007 I participated in the Colloquium on Empowering Women in Engineering and Technology in Tunis. In August 2007, I participated in the WEC 2008 Steering Committee in Brazil.

Cooperation with UNESCO

UNESCO and WFEO are preparing the UNESCO Engineering Report that will be launched next year on the occasion of WEC2008 in Brazil.

UNESCO supported the participation of women from developing countries in the June 2007 colloquium on Empowering Women in Engineering and Technology.

With WFEO, UNESCO is a sponsor and member of the international advisory board of the third World Engineers Convention to be held in Brasilia in December 2008, organized by the WFEO National Member, FEBRAE and WFEO Associate, CONFEA. UNESCO will support the participation of engineers from developing countries in this event.

WFEO was involved in the UNESCO/Daimler Chrysler Mondialogo Engineering Award project and received financial support for the promotional activities undertaken by the Tunis Secretariat. President Kamel Ayadi represented WFEO on the MEA Jury in Stuttgart. This Award will go into a third phase.

Appreciation

I am grateful to the President as well as the members of the Executive Council whose support and assistance made me able to carry out the tasks of the secretariat efficiently.



WEC 2008

World Engineers' Convention 2008 (WEC), Brasília / Brazil, 2 - 6 December 2008

This greatest engineering event of the next year, under the umbrella of WFEO and co-sponsored by UNESCO, is organized by **CONFEA** (Brazilian Federal Council of Engineering, Architecture and Agronomy) and **FEBRAE** (Brazilian Federation of Engineers' Association). The WEC 2008 has found a **strong support by the Brazilian president, government and industry** - result of many personal contacts and visits of leading representatives from CONFEA, FEBRAE and WFEO. A monitoring group of WFEO has supported our Brazilian colleagues - who expect more than 5,000 engineers from all countries at the WEC 2008!

The WEC International Advisory Board (WEC-IAB), chaired by former WFEO president Prof. Dr. José Medem Sanjuán, has met already three times: 6 November 2004 in Shanghai, China, 22 October 2005 in San Juan, Puerto Rico, 16 October 2006 in Chicago, USA. The next meeting is on 13 November 2007 in New Delhi, India.

After a preliminary meeting in Brasilia, the **WEC Supervisory Board (WEC-SB)**, had 4 further meetings in Brazil: 25 August 2005 in São Luis, 19 July 2006 and 27 March 2007 in Brasília, and 14 August 2007 in Rio de Janeiro. The WEC-SB is the supreme strategic body of the WEC, chaired by CONFEA president Marcos Túlio.

The **WEC Program Committee (WEC-PC)**, chaired by Prof. Dr. Luiz Carlos Scavarda do Carmo, Vice-President of the P. C. University Rio de Janeiro, has met in many preparatory meetings. In its meeting 13 August 2007 in Rio de Janeiro the **Preliminary Program for the WEC** has been fixed: opening and closing ceremony, plenary and parallel sessions, poster sessions, workshops, forum for students & young engineers, forum for women in engineering, industry fair / exhibition, communication market, receptions, pre- and post-congress events, tourist and technical visits.

The WEC program is based on the challenge to give answers and solutions of the engineers to the global goals of the UN Johannesburg Summit 2002 (WEHAB: Water, Energy, Health, Agriculture and Biodiversity). **The WEC thematic framework:**

- Social Challenges
- Engineering beyond Boundaries
- Engineering: Professional Ethics and Responsibilities
- Innovation without Degradation
- IT without Exclusion
- Advanced Technologies Engineering With Strategic Vision

The WEC thematic framework for call for papers for the WEC will be presented in **New Delhi**: at the WEC-IAB Meeting and at the **WFEO General Assembly in New Delhi**,

More: www.wec2008.org.br/en/



Meeting with the vice-president of Brazil



Empowerment of Women in Engineering

In June 2007, WFEO held in Tunis the first international colloquium on “Empowering Women in Engineering and Technology.” The main objective of the event was to gather a large number and variety of experts to discuss issues pertaining to women in the engineering professions, academic disciplines, and communities. During the conference, approximately one hundred different presentations tackled these issues. The event was highly successful; over four hundred participants were present representing over fifty different countries on every continent. An innovative pre- and post-conference training session delivered entrepreneurship, networking, and leadership skills for selected women from developing countries. A number of local participants also contributed to and benefited from the colloquium. The major concrete product of the conference was the formation of a working document that will be the “Carthage Declaration of Women in Engineering and Technology”. This document will pave the way for WFEO to address this pressing topic. The conference was a resounding success, as seen from the variety and enthusiasm of the participants, the quality and relevance of the presentations, and the tangible outcomes that will affect promising change in the coming years.



Participants in the training sessions

WFEO Anti-Corruption Task Group

The ACTG was created in October 2005 in Puerto Rico during the first Executive Council of my mandate and has been very active since the very beginning, comprising a total of 27 volunteers: the chairman, José Modem, 16 national and 10 international members.

This text can be left out---(The mandate given to the Task Group in 2005 was the following:

- To act as a focal point to advise WFEO members and link with all other likeminded organisations.
- To work with organisations such as UNESCO and the World Bank, involved in this issue.
- To update of the Code of Ethics of WFEO in order to take the above into consideration.)

The ACTG met in Chicago in 2006 and is celebrating its second meeting in New Delhi this coming November.

In two years, the Task Group has produced nine ACTG reports; a number of articles has been published on Anti Corruption procedures; an active distribution of the Engineers Charter; participation in the ASCE Task Committee on Global Principles for Professional Conduct; liaison with the group Partners in Overpowering Corruption; presentation of Competence and Integrity-Code of Ethics-Toward International Guidelines in Atlanta in 2006, in Zimbabwe and Madrid in 2007; amendments to the Code of Ethics of WFEO; participation in the World Justice Project and in the Global Anti-Corruption Education and Training Project.

Furthermore, the Task Group is closely cooperating with the American Society of Civil Engineers ASCE, the World Bank, Transparency International and through the Task Group, UK Anti-Corruption Forum has proposed an Anti-Corruption Action Plan for acceptance by WFEO that will be discussed in New Delhi.

International Conference on Small and Medium-sized Enterprises

On May 17-18, 2007 an International Conference “Supporting Small- and Medium-Sized Enterprises in Engineering and Technological Activity” was organized in Cracow, Poland by the Secretariat of WFEO-CET in cooperation with the Polish Federation of Engineering Associations. Participants of that conference discussed the growing needs for engineers-innovators, the role of the cooperation university-enterprise in implementing technologically new products and processes as well as on the experience in education and training of engineers for innovation. Participants stressed that because of the importance of the subject for countries being in transition as e.g. Central European and Developing Countries appeared a need to make the conference cyclic – organized e.g. every two years in different countries to enable further exchange of experience among different countries and get familiarized with various solutions.



Engineering and the Environment

COMMITTEE ON ENGINEERING AND THE ENVIRONMENT

Chairman : B. J. Vosaya (India)

The Committee on Engineering and the Environment aims at developing through appropriate activities and education, a world-wide understanding and commitment to sustainable development and encourage pursuit of those programs and facilities within Agenda 21 of the UNCED World Summit that are applicable to engineering.

The World Congress on "Sustainable Development" was hosted by the Institution of Engineers (India) on 20-23 January 2000 at Calcutta (India). Among its main features, an interesting program for encouraging students' participation in Sustainable Development was organized with the support of the Commonwealth Engineers' Council: an Essay Competition on the topic of "Choice of Technology for Sustainable Development of Developed/Developing Countries". Mr George Oner Ogale from Kenya was the winner of the first prize.

The "Calcutta Declaration" formulated as a conclusion of the Congress stressed the role of Engineering in reducing the gap between developed and developing countries, essentially within the areas of economic growth, environmental education, access to water and energy resources.

This Declaration and its Recommendations have been published in the WFEO Newsletter and widely circulated for follow up action.

The International Conference on "Construction Industry (Challenges for Sustainable Development), Disaster Management, Environment Management was held on 18-20 November, 2000 at Chandigarh(India) with the sponsorship of WFEO.

The then President of WFEO, Jose Medem Sanjuan, participated in a Round Table at New Delhi (India) on 7 April 2001, and in a Forum organized by the Nepal Engineers' Association and the Federation of Engineering Institutions of South & Central Asia (FEISCA) on 11 - 13 April 2001 at Kathmandu. Sustainable Development and Natural disaster Mitigation were among the topics dealt with in these meetings. It appeared that Disaster Mitigation measures are increasingly important for ensuring sustainable development in long term planning perspective and technological innovations may help reduce the consequences. A World Congress on Natural Disaster Reduction, with intense deliberations and debates by experts, needs to be set up before long.

Quarterly issues of Newsletters have been published regularly since March 2000 in three languages (English, French and Spanish) and widely circulated within WFEO. Contributions from the member countries are most welcome.

The Committee wishes to express its appreciation to the Institution of Engineers (India) and the Secretariat for extending all the infrastructure facilities in carrying out the Committee's activities.





COMMITTEE ON INFORMATION AND COMMUNICATION

(By Tijani Ben Jemaa :WFEO Office in Tunis)

FIRST WORLD CONGRESS ON ICT FOR KNOWLEDGE SOCIETY (Seoul)

The first world congress on ICT for the Knowledge Society was organized in Seoul from 5 to 8 July 2006 by CIC, under the efficient leadership of Prof Park, and the strong support of the Korean Federation of Engineering Organisations led by Prof Kim. The main theme was “Post WSIS : Implementation and role of ICT engineers”.

Opened by his Excellency KIM Soo Sam, President of Korea, this successful congress gathered 15 high profile speakers from all over the world and was attended by interested people.

In conjunction with the congress, several technical visits to ICT companies were organised.

WFEO-CIC activities within the WSIS second phase (Tunis 16-18 November 2005)

Just after the WFEO General Assembly, held in October 2005 in Puerto Rico, the working committee based in the WFEO Tunis office undertook several activities aiming at representing WFEO at the second phase of the World Summit on Information Society (WSIS).

1.Registration of WFEO members

On their request, more than twenty WFEO members were registered by the committee for the second phase of WSIS held in Tunis from 16 to 18 November 2005. Overpasses were secured for them to attend all restricted sessions.

2.WFEO speech in the plenary session (18 Nov 2005)

WFEO representative (Tijani BEN JEMAA) was nominated by the civil society selection committee to speak on behalf of the “Science and Technology” Family during one of the plenary sessions of the Summit. The whole civil society representatives had 12 speaking slots only during the various official meetings of the summit. The family “Science and Technology” is made of several umbrella organizations such as WFEO, ICSU, ICET, UATI, etc. WFEO was elected to represent this family in the Civil Society Bureau for WSIS in Feb. 2003.

3.WFEO parallel event in WSIS second phase (17 Nov 2005)

As parallel event to the Tunis Summit, WFEO-CIC organized a 4 hours panel about “Engineering, the knowledge society and the 21st century challenges” on November 17th 2005. Seven high level speakers presented valuable contributions (Dato Lee Cheoung, Prof. Mu Zhichun, Dr Russel Jones, Prof. Tao Xiaofeng, Eng Sana Ghenima, Dr Wesley Shrum, and Dr Francis Muguet).



WFEO-CIC activities within the WSIS implementation and follow-up process

1) Briefing for NGOs on the outcome of WSIS Tunis 2005 (7 Dec 2005)

Organized as a panel by the Conference of NGOs in Consultative Relationship with the United Nations (CONGO) in Geneva, this briefing was the first assessment of the WSIS second phase outcome to which the representative of WFEO was invited. Seven panellists took the floor and gave their evaluation of this great event (the Secretary General of ITU, the President of WSIS preparatory Committee, the Chairman of the Sub-committee on Internet Governance, etc.). The discussion focused on the way forward after Tunis and on the WSIS experience of civil society participation in the overall process.

2) Copenhagen Conference on “Where to go from Tunis” (21-22 Feb 2006)

The Danish network on WSIS and the World Federation of UN Associations (WFUNA) task force on WSIS organized in Copenhagen the international conference on “Where to go from Tunis”. The Focus of the Conference was to follow up on the World Summit on Information Society and to evaluate its results, particularly from a civil society perspective.

The conference was made of Keynote speeches and workshops debating on four items : National ICT strategies, Local access to ICT, Human rights and ICT, and International follow-up mechanisms to WSIS process.

WFEO representative participated in this conference and was actively involved in the workshop 4 “International follow-up mechanisms” and in the drafting of its recommendations.

3) Action lines facilitation meetings convened by UNESCO in Paris (16-19 Oct 2006)

In the framework of the WSIS plan of action implementation, WFEO representative attended the 4 consultation meetings on action lines implementation (C3, C10, C7e, and C9) that UNESCO organized in its headquarter in Paris

He was one of the small group members constituted to follow up action line C7e “e-learning”.

4) Internet Governance Forum in Athens (30 Oct - 2 Nov 2006)

The creation of an Internet Governance Forum (IGF), multilateral, multi-stakeholder, democratic and transparent, was one of the main decisions of the WSIS. WFEO-CIC representative attended the first meeting of IGF held in Athens (Greece) from 30 October to 2 November 2006.

4 main themes were particularly addressed : Openness, Security, Diversity and Access.

37 workshops were organized as IGF parallel events during its duration period (31 Oct – 2 Nov), all in relation with the above 4 topics.

5) African Civil Society Forum in Addis Ababa (22-24 March 2007)

Invited by CONGO and FEMNET, the WFEO-CIC representative participated in the African Civil Society Forum on “Democratizing Governance at Regional and Global Level to achieve the MDGs”, held in Addis Ababa (Ethiopia). The main topics addressed were : “Building UN/NGO partnerships for democratic governance to achieve the MDGs”, “CSOs role in achieving the MDGs”, “CSOs capacity building to have an effective role in public policy and decision making processes”, “Follow-up on UN reform process and the SG’s report : In larger freedom”, “The challenges of the MDGs in Africa”, “Peace and human security for achieving the MDGs”, “Governance and human rights-based approach to the development agenda”, “and Development : trade, finance, debt relief and investment”.

On the fringe of this forum, two important events were organized :

- The African Civil Society for Information Society (ACSIS) strategic meeting

This strategic meeting aimed at adopting the final plan of action of this network, and the possible partnerships that it could build with major actors and sponsors.

WFEO-CIC representative played a key role in this meeting : he chaired it and managed to find consensus for the whole items raised.

- Launch of the African Global Alliance for ICT & Development

The Global Alliance for ICT & Development (GAID) was born at the end of the WSIS second phase. Created by the UN SG on an initiative of the ICT Task Force. WFEO president Kamel Ayadi was selected member of the strategy council of the GAID.

In this meeting, the African Global Alliance for ICT & Development network was launched to better represent Africa in this UN structure



COMMITTEE ON EDUCATION AND TRAINING

Chairman : W. Misalski (Poland)

Since November 1, 2005, the Polish Federation of Engineering Associations (WFEO National Member) has taken over the Committee on Education and Training (CET) and its Secretariat in consequence of the General Assembly decision taken on October 20, 2005 in San Juan, Puerto Rico. During the reporting period the following activities were carried out.

Organisation of the CET office in Warsaw, Poland followed by official overtaking of the Committee and its Secretariat from Hungarian Colleagues took place in Nov. 2005. Prof. János Ginsztler, Past President of the Committee and Mrs. Zsuzsanna Sárközi-Zagoni, Past Secretary have officially transferred the tasks to new CET President Prof. Włodzimierz Misalski and new CET Secretary Mrs. Teresa Domanska. Since end of 2005 till March 2006 the Committee participated in organisation of the 7-th World Congress on Engineering Education which was held 4-7 March, 2006 in Budapest with active participation of the CET members (presentation 7 papers, chairing the sessions and working out the declaration and conclusions). After the Congress 35 CET Meeting was held on March 8, 2006 in Budapest with following main topics: Summing up the Results of the 7-th WCEE, Mobility of Engineers and Engineering Students, Revision the CET Plan of Action, Education for Innovation for Small and Medium-Size Engineering Companies. Since April 2006 the editorial works with the Journal IDEAS No. 13 started. In May/June 2006 on request of Prof. Jean Michel, Editor of the European Journal of Engineering Education a team of reviewers (out of CET members) was organized. In July the work on the WFEO-CET website has been initiated. In August, 2006 organization work for the International Conference on Supporting Small and Medium-Sized Enterprises in Engineering Innovations started. In October IDEAS No. 13 has been published and distributed to WFEO, FEANI, SEFI, WFEO Member Organizations, Technical Universities, Libraries. Since Nov. 2006 till Apr. 2007 CET members represented the Committee in different eng. education activities: FEANI Annual Meetings (Prague, Sep. 2006), UNESCO Forum on Higher Education, Research and Knowledge II Colloquium, Paris, Nov. 2006 (Prof. Monhem Alameddine), Preparations for the 8-th WCEE 2009 in Malaysia (CET Vice-President Eng. Hisham Shihaby). The organized by CET International Conference "Supporting Small- and Medium Sized Enterprises in Engineering and Technological Innovation Activity" - held 17-18-th May 2007 in Cracow, Poland - turned out to be a forum of international exchange of experience on: supporting engineering and technological innovations, co-operation university-enterprise influence on creating and development of small and medium size businesses. Participants stressed that because of the importance of the subject for countries being in transition as e.g. Central European and developing countries a need appeared to make the Conference cyclic - organized e.g. every two years in different countries- to enable further exchange of experience among different countries and get familiarized with various solutions. The Conference was followed by 36-th CET Meeting (19-th May, 2007, Cracow, Poland). Main topics of the Meeting: Summing up the results of the Conference, Discussion on the WFEO Strategy of Mobility and setting up a Working Group on WFEO Strategy of Mobility, Organisation the 8-th WCEE, 2009 in Malaysia (Prof. Abang) and discussion on the subject of the Congress (Continuing Engineering Education and Professional Development), Education and Training Scenario for Engineers in 2020 (Dr. Peter Greenwood), Publication of IDEAS No. 14, Presentation of the CET Homepage. The above topics have reflected current CET activities. Since June 2007 work contacts have been established with IFEEES and Cartagena Network of Engineering. The closest future activities are: Publishing IDEAS No. 14 (scheduled by the end 2007), Determining 8-th WCEE main topics (Sep. 2007-Feb. 2008), Preparation of 37-th CET Meeting (scheduled March 2008 in Syria).

Prof. Włodzimierz Misalski
President of WFEO-CET

Education and Training



Technology

COMMITTEE ON TECHNOLOGY

Chairman : G. Toledo (Puerto Rico)

Introduction

This report presents highlights of activities of the Committee on Technology for the period of 2005 to 2007.

Governance.

During the year 2005, two Vice President positions became vacant, one through resignation (already filled for Asia-Pacific) and the other through death (still unfilled for Middle East and Arab States)

Activities

UN Commission on Sustainable Development: CSD-14 (May 06). Participation on the discussion day on Small Island Developing States (SIDS)

Adopt a Village Initiative. Project has been awaiting assignment of project site by CODIA. Efforts have been on developing basic manuals, with unimproved roads maintenance manual completed.

Conferences and Symposia

Fourth World Water Forum, Mexico City, Mexico, Mar 2006

Seminar on “The International Experience on Water Transfers: New York City and Puerto Rico Case Studies”, Main speaker, Valencia, Spain, 9-10 Jun 06

First World Congress on Urban Development, Mexico, Jul 2006

AIDIS Congress, Punta del Este, Uruguay, November 2006.

First Ibero American Congress of Civil Engineers, Puerto Vallarta, Mexico, May 2007. Presentation on the “Role of Civil Engineers on Sustainable Development”.

Maritime Zone Delineation, San Juan, PR. Seminar sponsored by ComTech and WCCE, Sep 2006.

6 th Inter American Dialog on Water, Guatemala, Sep 2007. Facilitated discussions.

WFEO-WCCE-UPADI Caribbean Initiative.

A joint seminar was done in Nov 06 on evaluating the infrastructure needs in Santiago, Dominican Republic for the CODIA Santiago Region.





Joint efforts by CODIA (Dominican Republic), UNAICC (Cuba) and CIAPR (Puerto Rico) to reactivate an Engineers organization in Haiti. Meeting was held in Port Au Prince with a group of engineers. Provided model laws for organizing an engineers association.

Building Codes

ComTech and the International Code Council have initiated efforts to provide assistance to different countries to provide help in updating Building Codes in order to protect the health, safety and property of our people. To date the following initiatives have been initiated:

Latin America and the Caribbean:

Technical Assistance Code Development Process Mexico: The Residential Building Code for Mexico calls for establishing a pilot program in three Model Cities. The City of Mexicali, Mexico, has been chosen as the first of the three model cities to execute the pilot program. Representatives of the City of Mexicali, International Code Council, Mexican National Housing Commission (CONAFOVI), National University of Mexico (UNAM) and URBI (large scale housing developers), met May 24-26, 2006 to establish the work schedule for this pilot program.

Seminar Offered to the Mexican Government and Residential Contractors During the days of September 10 and 11, ComTech with the cooperation of the Colegios de Ingenieros y Agrimensores de Puerto Rico its Seismic Commission and the Mechanical Engineers Institute, Puerto Rico's Planning Board and the Regulations and Permits Administration, the local Home Builders association and prominent local Engineers offered a two days Seminar to our Mexican Colleagues.

The Mexican Government's National Commission for Development of the Housing Sector is starting a pilot program with the State of Mexicali in order to develop a Residential Building Code for adoption Nationwide. The Seminar focused on the process Puerto Rican Building Code Enforcing Agencies, Professional Organizations and Design/Inspection Engineers and Architects went through for adapting Model Codes to the particular needs of our Country.

Topics covered included:

Planning board and Permits and Regulations Administration Role in Adapting and Adopting Structural/Residential/ Mechanical and Plumbing Model Codes- Ramon Ayala, P.E.

Structural Modifications required to adapt the Structural Code to local conditions- Bernardo Deschappelles, P.E., PhD..

Local laws that created the Professional Engineers, Architects and Surveyors Association, subsequent laws and the responsibility imposed to the Designing and Inspecting Professionals to protect Human Lives and Property- Rodolfo Mangual, P.E.- Exec. Director CIAPR.

Law of Certification and the responsibility process to guarantee compliance with local adapted Construction Codes- Angel Rodriguez, P.E..

Construction Project Inspection Process – Harry Villegas, P.E..

Cost Estimates of Construction Projects and its relation to Building Codes by Efrain Echandi, P.E. – ComTech.

The Seminar was very well received by our Mexican Colleagues which now have a very clear idea of the process they are implementing in Mexico.

Spanish Translation of the International Codes:

The Spanish version of the International Plumbing Code and the International Fuel Gas Code are available to the public. The Mechanical, Residential, Property Maintenance, and Energy Conservation International Codes are waiting to sign off the proofs from the printer. The Spanish 2003 International Building Code and International Fire Code are due shortly. The Spanish International Codes for eCodes are being prepared.

Adoption of the Codes in Puerto Rico:

The Professional Engineers and Surveyors Association in conjunction with ComTech, the Home Builders local Chapter, and the State's Regulations and Permits Administration have put together different Committees to work in the adaptation to local conditions of the International Codes 2003 version. The Committees reports will be posted in the web sites of the different organizations related to the building industry, public hearings will be held and then legislation will be enacted to adopt the Codes. The process is expected to be culminated by the end of October 2006.

Middle East, Africa and Asia:

Egypt: Agreements have been drafted and finalized with the Egyptian Housing and Building Research Center for laboratory accreditation work covering three inspector categories.

Iraq, Technical Assistance for Building System: A NIST Workshop on Codes and Standards for Iraqi Officials was offered.



NIST Standards in Trade (SIT) Workshop for the Middle East: A similar NIST workshop for eight (8) Middle Eastern Countries is scheduled for October 30-November 3, 2006.

*Pakistan- Reducing Seismic Risk and Enhancing

Building Safety- In collaboration with ICC's Business Development Dept. an agreement has been reached to provide technical assistance in phase II of project " New Building Code for Pakistan."

United Arab Emirates:

*Conversations have been held to discuss plans for the adaptation of the International Code, to establish training and certification program for construction professionals and accreditation for the construction industry in the UAE and gulf countries.

International Development Organizations and the United States Government:

*World Bank and the Inter-American Development

Bank: Presentations on building codes as a mitigation tool in high risk areas were made at Brown Bag Lunch sessions of the WB and IADB.

*United States Agency for International Dev.(USAID)-

We are following with USAID on activities related to the Codes for the Americas Safety Act (CASA) and its implementation.

*Organization of American States

On April 24,2006 we participated at the OAS's Joint Consultative Organ on Natural Disaster Reduction and Risk Management. A presentation was made on Building Codes as a tool for risk mitigation, before the Ambassadors of the OAS.

Others

Energy Conservation Code for the Tropics. Efforts are underway in PR and Hawaii for the development of an Energy conservation Code especially for the tropics.

Future Activities

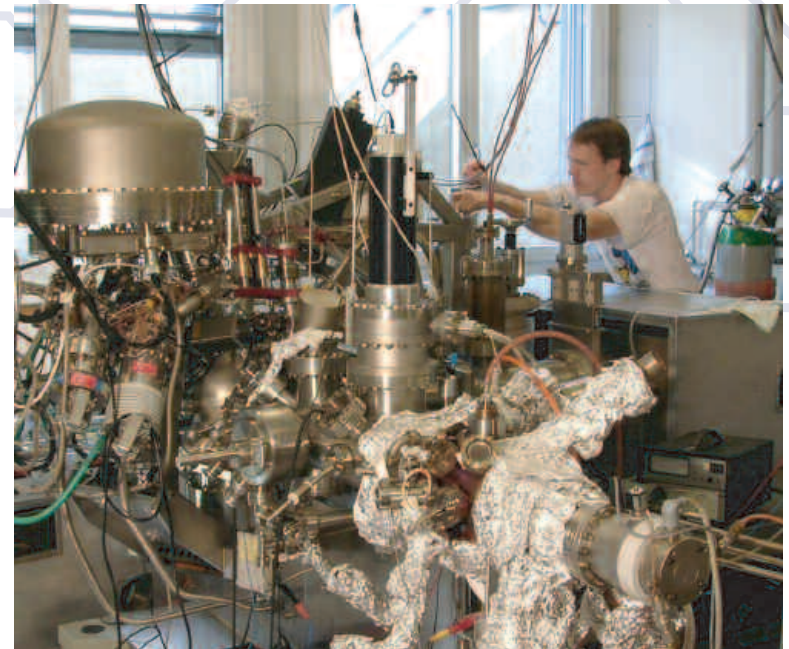
ASCE-07, Orlando FL. Nov 2007

Zaragoza Water Expo, Zaragoza, Spain- Jun-Sep 08

AIDIS-08, Santiago, Chile, Sep 2008

Committee Organizational Tasks (COT's)

The Committee Organizational Tasks have been in place for over 6 years. As they are currently in need for updating to better adapt to current initiatives and efforts, a revised version was discussed and approved during WFEO-06 in Chicago.





REPORT OF THE WFEO CAPACITY BUILDING COMMITTEE

Chairman : R. Jones (USA)

The WFEO Committee on Capacity Building continues to operate at an intense pace, focused on two primary fronts: sub-Saharan Africa, and Latin America and the Caribbean.

From 4 to 6 March 2007 the “Engineering Africa” initiative of the WFEO Committee on Capacity Building conducted a pilot conference in Abuja, Nigeria. The conference brought together an invited group of educators, industry leaders, government officials and NGO's representatives to discuss how a multi-sector approach could be effective in enhancing engineering education in this most populous country in sub-Saharan Africa in order to develop an appropriate quality and quantity of engineering graduates to attract direct foreign investment, address the technical needs of the Nigerian economy, and stimulate small business development through entrepreneurship. Co-sponsors of the conference included the Hewlett-Packard Company, the Nigerian Society of Engineers, the African Engineering Education Association, and the UNESCO Regional Bureau for Science and Technology in Africa. CCB member Barbara Waugh was a key organizer.

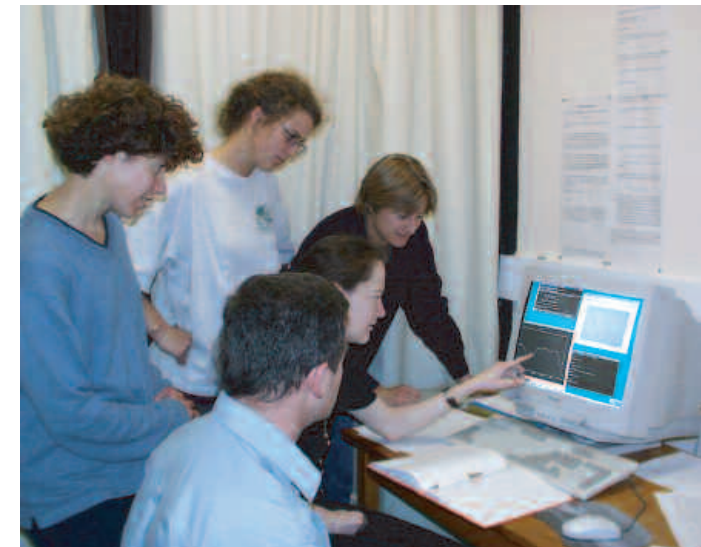
The conference was opened by the Nigerian Minister of Education, and later addressed by the Nigerian Minister of Science and Technology. A third major keynote presentation, covering the status of engineering education and engineering across sub-Saharan Africa, was made by the Director of the UNESCO Regional Bureau for Science and Technology in Africa. Panels addressed the industry perspective on needs for high quality engineers in adequate numbers, the current status of engineering education and accreditation in Nigeria, economic development through technical capacity building, curriculum enhancement, dimensions of innovation, and university/industry/government partnerships.

Recognizing that significant financial support would be needed to pursue suggested enhancements in engineering education in Nigeria, the program also included a presentation by representatives of the World Bank, which is in the process of providing a major grant to the country to enhance tertiary education, and a follow-up presentation on leveraging the international financial organizations. Near the end of the conference, breakout groups discussed next steps needed by each of the sectors represented – education, industry and government. Participants then formed task groups to address several issues – accreditation, entrepreneurship, and university/industry/government collaboration. One major next step is planning for a scaled-up version of this pilot conference to be held in December 2007, as part of the large annual meeting of the Nigerian Society of Engineers.

In addition, significant efforts at program development involving major universities in sub-Saharan Africa are also underway. In conjunction with Cape Town University, we are proposing to foundations the development



Capacity Building



Capacity Building



of engineering education and accreditation workshops throughout sub-Saharan Africa. Duncan Fraser of Cape Town University, a key CCB member, is spearheading that effort. We are also involved in working with the dean of engineering at the University of Dar es Salaam to steer a significant portion of a new \$150-million World Bank grant to develop an incubator to translate R&D results into appropriate products and services for Tanzania.

The approach of working through local organizations to approach major funding sources is paying off well in the “Engineering for the Americas” effort. With the assistance of the EftA team, three countries in the Caribbean have just been approved for a \$1-million grant from the InterAmerican Development Bank to develop a regional accreditation system. The EftA team will be heavily involved in implementation of that five year project. The EftA team also conducted a workshop in Chile in March to bring together government, industry, academic and NGO leaders to outline needed steps to enhance engineering education in the Southern Cone of Latin America. CCB member Lueny Morrell of Hewlett-Packard spearheaded that effort.

CCB member Claudia Morell of the University of Maryland provided major leadership, with President Kamel Ayadi, in planning for the WFEO International Colloquium on Women in Engineering, held in June 2007 in Tunis. The goal of this meeting was to launch WFEO’s capacity building efforts to increase the participation and leadership of women engineers within WFEO and the engineering profession, and to enhance support for women engineers and women interested in becoming engineers internationally. The Colloquium was organized with plenary presentations by world leaders on gender issues in engineering and technology, interspersed with breakout sessions pursuing four tracks:

Women in Engineering and Technology Workforce

Women in Engineering Education

Women as Entrepreneurs of Small and Medium Enterprises

Women Enabling Technology in Communities

Outcomes of the conference included a major resolution on the enhancement of the status of women in engineering and technology, and a proposal for the formation of a new WFEO standing committee on Women in Engineering. The latter effort is being spearheaded by the Nigerian Society of Engineers.





REPORT OF THE ENERGY STANDING COMMITTEE

Chairman : J. Spitalnik (Brazil)

INTRODUCTION

This Report states the activities performed at the Energy Committee for the 2-year period since the WFEO General Assembly held in Puerto Rico in Oct. 2005.

STRUCTURE

The Committee consists of a Chairman and six regional Vice-Chairmen representing: North America, Asia/Pacific, Latin America, Europe/Russia, Mid-East/S. Central Asia, and Africa. Currently, Committee Officers appointed by their respective National Member organizations are:

a/ Chairman

- Jorge Spitalnik (Brazil)

b/ Vice-Chairs

- Africa – Prof. Abubakar S Sambo, Nigeria
- Asia/Pacific – Dr. Peter Greenwood, Australia
- Europe/Russia – Dr. Daniel Favrat, Switzerland
- Latin America – Mr. Mario Wiegers, Argentina
- MidEast/S. Central Asia – Mr. Pradeep Chaturvedi, India
- North America – Mr. John M. Tuohy, Jr., USA

c/ Advisory Council

Energy experts from different countries acting as an advisory body on reports issued by Task Groups constitute the Advisory Council. The Advisory Council members provide consultancy on priority activities in their respective areas of interest, for inclusion in the Committee working programs.

Currently, the composition of this Council is made up by Konstantinos Alexopoulos, Greece, David Anderson, UK, Remy Carle, France, Jose Gasca Neri, Mexico, Yogi Goswami, USA, Ivan Nicolau, Puerto Rico, and Michael Sanio, USA.

d/ Members

The following individuals were appointed by their National Organizations to be Committee Members: Yuzuru Ashida (Japan), Olu Awoyinfa (Nigeria), Gerard Baron (France), Samir Doumit (Lebanon), I.K. Inuwa (Nigeria), Emad Khader (Palestine), Ruomei Li (China), Mihaita Mihai (Romania), Zhichun Mu (China), F.C. Ogolo (Nigeria), Donald Schutz (USA) and Mario Telichevsky (Argentina).

MEETINGS

The Committee has met in conjunction with WFEO annual meetings. During this period, the Committee held its second, third and extraordinary meetings in San Juan, Puerto Rico, Chicago, USA, and Rio de Janeiro, Brazil, respectively on 17 October 2005, 17 October 2006, and 16 August 2007.



Energy



ACTIVITIES

In this period, the following activities were performed by the Committee.

a) Feasibility Reports

Several Task Groups were engaged in the preparation of Reports on the feasibility conditions of different energy technologies currently being considered for implementation around the world. A summary of their activities follows.

- Wind Energy: Under the leadership of Prof. Geraldo Tavares (Brazil), this Task Group issued the Report on Wind--Power feasibility that was published on the WFEO webpage with free downloading in March 2006.
- Nuclear Power: Mr. Bertrand Barré from France is the chair this Task Group. Mr. Barrie F. Hill (Australia), Prof. Jose Maria Aragones (Spain), Dr. Donald Schutz (USA) and Dr. Andrew Kadak (USA) are the Task Group members. The Group is actively producing the first draft of the report.
- Solar Energy: Prof Yogi Goswami of the University of South Florida - Tampa, USA., accepted to chair this Task Group. We are seeking nominations from Germany, Austria, Israel and Japan to get voluntary experts to work in this Group.
- Bio-energy: The Group is being formed with nominations of members from Brazil. We are still awaiting nominations from other countries.

Under Vice-Chair Dr. Peter Greenwood's coordination, a survey on nuclear power prospects was performed to assess the range of country views on this option. The survey covering issues related to power generation, waste disposal, nuclear engineering education programs, local nuclear power design and engineering, and national policy on nuclear power generation, was made through National Organization Members. The results of this survey were made available to the Task Group on Nuclear Power.

b) United Nations Commission on Sustainable Development (UNCSD)

The Committee represented WFEO at the 14th Session of the UNCSD (CSD-14), the Intergovernmental Preparatory Meeting (IPM) and the CSD-15 Session that were held in New York respectively from 1st to 12th May 2006, 25th February to 2nd March 2007 and 30th April to 11th May 2007. These meetings focused on issues related to Energy for Sustainable Development; Industrial Development; Air pollution/Atmosphere; and Climate Change. At the request of the UNCSD Secretariat, the Committee contributed the WFEO position on several issues for the preparation of the UN Secretary General's Report to CSD-15. The position sustained by the WFEO delegation was to stress the eminently technical nature of the issues discussed in the 2006-2007 cycle, that required a serious observance of scientific principles and engineering criteria when searching for solutions of sustainability and development, namely within the context of energy use and climate change.



c) Engineering for Sustainable Energy in Developing Countries

FEBRAE and WFEO, through this Committee, held from 15th to 18th August, the International Conference on Engineering for Sustainable Energy in Developing Countries, in Rio de Janeiro, Brazil. This event gathered the support of several local and foreign organizations engaged in Engineering development and practice, such as UNESCO and UPADI. The main purpose of the Conference was to provide a forum for scientists, engineers, economists, and decision-making officials to discuss and analyze the various aspects involving the implementation of sustainable energy programs and the engineering associated to such implementation, giving emphasis to poverty eradication and relief in developing countries. Attended the Conference some 450 participants from Argentina, Australia, Brazil, Chile, China, Costa Rica, Cuba, Ecuador, Germany, India, Kenya, Lebanon, Morocco, Mexico, Nigeria, Palestine, Switzerland, Tunisia, USA, Venezuela, UNESCO, UNU, UPADI and the United Nations Department of Sustainable Development. The receptivity and the interest stimulated by the conclusions of the Conference, as well as the need for updating the global experience on issues related to the engineering for sustainable energies, made this Committee to approve a proposal by the Engineers Australia to hold, in 2009, in Australia, a 2nd International Conference on this subject.

d) Cooperation Agreement with the World Energy Council (WEC)

The Memorandum of Understanding (MOU) for Cooperation between WFEO and WEC to enhance the effectiveness of the efforts of each organization in the areas of sustainable energy supply and use, was signed in April 2007. Focal points for implementing actions under this MOU are, respectively, the WFEO Energy Committee and WEC Director of Studies. Detailed plans of action under this cooperation will be the object of specific Protocols, being the 1st Protocol dedicated to collaboration in the following activities: WFEO Conference on Engineering for Sustainable Energy in Developing Countries, Rio de Janeiro, Brazil, 15-18 August 2007; 20th World Energy Congress on The Energy Future in an Interdependent World, Rome, Italy, November 11-15, 2007, and the WEC Project on Village Electrification in Developing Countries.

e) World Engineers' Convention 2008

The Energy Committee has been actively engaged in the organization activities of the 3rd World Engineers' Congress to take place in Brazil in 2008, under the co-sponsorship of WFEO, FEBRAE and CONFEA. Energy Committee members take part of the International Advisory Board, the Supervisory Board and the Program Committee.



Internal Audit Report of the Accounts
(WFEO for the Period January
1st to December 31st 2006)



A strict control of expenses, even the smallest ones, an insistent effort to get outstanding subscriptions of previous years in, as well as an almost full transition to the Euro for the income and not only for the expenses, allowed an encouraging surplus of more than 32,000 Euros. Our reserves reached therefore 117,000 Euros, that is, almost half of our annual expenses of 235,000 Euros. Our aim must always remain to reach reserves that are at least equivalent to our annual expenses. Like many non profit organisations, the risk for the Federation is that as soon as the results are not in the red, a certain poor management of expenses is reinstated and that a series of new expensive projects seem suddenly essential.

Our accounts remain fragile, it is necessary that from now on, each country pays its subscription entirely in Euro.

It seems to me that the Executive Council should take a decision concerning the status of members who have not made any contribution since three years or more: Algeria, Colombia, El Salvador, Indonesia, Israel, Kenya, Libya, Morocco, Uganda, Sudan, Turkey, Yemen and Yugoslavia. Only Cameroon and Nepal have regularly contributed significantly to our activities and have participated in our events despite, for them too, an important delay in payment of subscriptions.

My great gratitude goes to our Executive Director, Mrs. Tahani Youssef Lefébure, for her multiple actions that have decisively contributed to the positive results of our 2006 accounts.

Finally, I recommend that our 2006 accounts and our end of 2006 balance sheet be accepted by our Executive Council.

Jean-Claude Badoux
Internal Audit

BALANCE SHEET AS AT 31 DECEMBER 2005-2006
BILAN AU 31 DECEMBRE 2005-2006

	2005 €	2006 €
CURRENT ASSETS / ACTIF		
Deposits / Dépôts		
Debtors / Créances	0	400
Investments / Titres	128337	40683
Bank / Banque	90942	169913
Prepayments / Charges d'avance	74	
TOTAL	219353	210996
CURRENT LIABILITIES / PASSIF		
Creditors / Dettes	65649	10749
Deferred Income / Produits d'avance	20000	4180
TOTAL		
Difference / Difference		
Financed by / Financé par :		
Balance at January 1st/Report à nouveau	105540	133705
Profit of the year / Gain de l'exercice	28164	62362

STATEMENT OF INCOME AND EXPENDITURES 2005-2006
COMPTE D'EXPLOITATION 2005-2006

	2005 €	2006 €
RESSOURCES / INCOME		
Subscriptions and Associates/ Cotisations et Associés	198567	198645
Interests and miscellaneous / Intérêts et divers		6
TOTAL	198567	198651
EXPENSES / DEPENSES		
Administrations	120218	79467
General Activities / Activités générales	19408	15322
Standing committees / Comités permanents	29540	25500
Promotion	11273	8802
Loss on exchange / Pertes de change	-10032	7199
TOTAL		136290
Profit of the year / Gain de l'exercice	28164	62362
Average exchange rate/Taux de change moyen	1.25 \$	



NATIONAL AND AFFILIATED MEMBERS

Algeria	Union Nationale des Agronomes
Argentina	Union Argentina de Asociaciones de Ingenieros (U.A.D.I.)
Australia	Engineers Australia (Australia)
Azerbaijan	Azerbaijan Union of Scientific and Engineering Associations
Bahrain	Bahrain Society of Engineers
Bangladesh	The Institution of Engineers, Bangladesh
Bolivia	Sociedad de Ingenieros de Bolivia
Brazil	Federacao Brasileira de Associaoes de Engenheiros (FEBRAE)
Bulgaria	Fédération des Unions Scientifiques et Techniques de Bulgarie (FNTS)
Cameroon	Association des Ingénieurs Diplômés de l'Ecole Polytechnique de Yaoundé (AIDEPY)
Canada	Engineers Canada
Chile	Instituto de Ingenieros de Chile
China	China Association for Science and Technology (CAST)
Colombia	Sociedad Colombiana de Ingenieros
Costa Rica	Colegio Federado de Ingenieros y de Arquitectos de Costa Rica
Côte d'Ivoire	Fédération Nationale des Organisations d'Ingénieurs, Architectes Géomètres et Urbanistes de Côte d'Ivoire (FIACI)
Cuba	Union Nacional de Arquitectos y Ingenieros de la Construcción de Cuba (UNAICC)
Cyprus	Cyprus Professional Engineers' Association
Czechia	Cesky Svaz Vedeckotěchnických Společností (CSVTS)
Ecuador	Sociedad de Ingenieros del Ecuador
Egypt	Egyptian Engineering Association
El Salvador	Asociación Salvadoreña de Ingenieros y Arquitectos
France	Conseil National des Ingénieurs et Scientifiques de France (CNISF)
Georgia	Association of Engineers in Georgia
Germany	VDI The Association of Engineers
Ghana	Ghana Institution of Engineers
Greece	Chambre Technique de Grèce
Hong Kong (China)	The Hong Kong Institution of Engineers
Hungary	Fédération des Sociétés Scientifiques et Techniques (MTESZ)
India	The Institution of Engineers, India
Indonesia	The Institution of Engineers, Indonesia
Iraq	The Iraqi Engineers' Union
Ireland	The Institution of Engineers of Ireland

WFEO Membres





NATIONAL AND AFFILIATED MEMBERS

Israel	Association of Engineers and Architects in Israel	Spain	Instituto de la Ingenieria de Espana
Italy	Consiglio Nazionale degli Ingegneri	Sri Lanka	The Institution of Engineers, Sri Lanka
Japan	Science Council of Japan	Sudan	Federation of Sudanese Engineers
Jordan	Jordan Engineers' Association	Switzerland	Comité National Suisse de la FMOI
Kenya	Institution of Engineers	Syria	Order of Syrian Engineers and Architects
Korea (KOFST)	The Korean Federation of Science and Technology Societies	Taiwan, China	The Chinese Institute of Engineers
Kuwait	Kuwait Society of Engineers	Tanzania	The Institution of Engineers, Tanzania
Lebanon	Ordre des Ingénieurs et Architectes du Liban	Tunisia	Ordre des Ingénieurs Tunisiens
Libya	Libyan Syndicate of Engineers	Turkey (UCTEA)	Union of Chambers of Turkish Engineers and Architects
Malaysia	The Institution of Engineers, Malaysia	Uganda	Uganda Institution of Professional Engineers
Mauritius	The Institution of Engineers, Mauritius	Ukraine	Union of Scientific and Engineering Associations of Ukraine
Mexico	Union Mexicana de Asociaciones de Ingenieros A.G.(UMAI)	UAE	Society of Engineers
Moldavia	Engineering Association of Moldavia	UK	The Institution of Civil Engineers
Morocco	Union Nationale des Ingénieurs Marocains	USA	American Association of Engineering Societies (AAES)
Nepal	Nepal Engineers' Association	Uruguay	Asociacion de Ingenieros del Uruguay
New Zealand	The Institution of Professional Engineers	Venezuela	Colegio de Ingenieros
Nigeria	The Nigerian Society of Engineers	Yemen	Syndicate of Yemeni Engineers
Pakistan	Institution of Engineers, Pakistan	Yugoslavia	Union of Engineers and Technicians of Yugoslavia
Palestine	General Union of Palestinian Engineers	Zimbabwe	The Zimbabwe Institution of Engineers
Peru	Sociedad de Ingenieros del Peru		
Philippines	Philippine Technological Council		
Poland	Naczelna Organizacja Techniczna		
Puerto Rico	Colegio de Ingenieros y Agrimensores de Puerto Rico		
Romania	The General Association of Engineers in Romania (AGIR)		
Russia (USEA)	Union of Scientific and Engineering Associations, Russia		
Saudi Arabia	Saudi Council of Engineers		
Senegal	Union Nationale des Ingénieurs du Sénégal		
Singapore	The Institution of Engineers, Singapore		
Slovakia (ZSVTS)	Association of Slovak Scientific & Technological Societies		
Slovenia	Slovenian Chamber of Engineers		
South Africa	Engineering Council of South Africa		

Regional Member / Membre Régional

West Indies Council of Caribbean Engineering Organizations

International Members / Membres Internationaux

ASEAN Federation of Engineering Organisations (AFEO)
 Commonwealth Engineers' Council (CEC)
 European Federation of National Engineering Associations (FEANI)
 Federation of African Organizations of Engineers (FAOE)
 Federation of Arab Engineers (FAE)
 Federation of Engineering Institutions of Southeast Asia and Pacific (FEISEAP)
 Federation of Engineering Institutions of South and Central Asia (FEISCA)



Pan American Federation of Engineering Associations (UPADI)
Regional Council of Co-ordination (RCC)
Union of Scientific and Engineering Associations (USEA)
Associates / Associés

Distinguished Associate / Associé d'honneur :

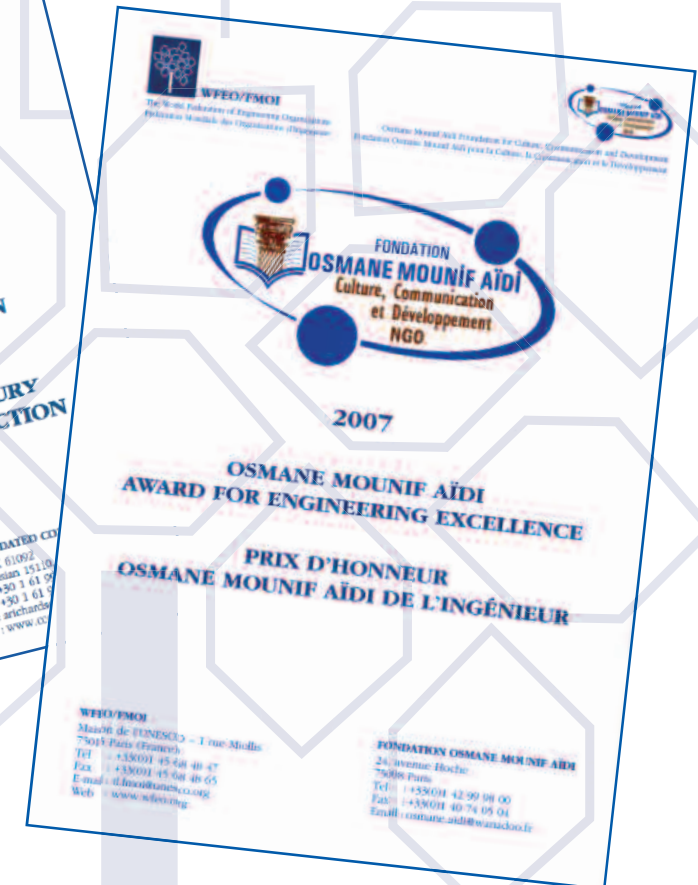
Consolidated Contractors Group (CCC)
Fondation Osmane Mounif Aïdi (FOMA)

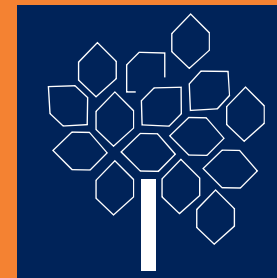
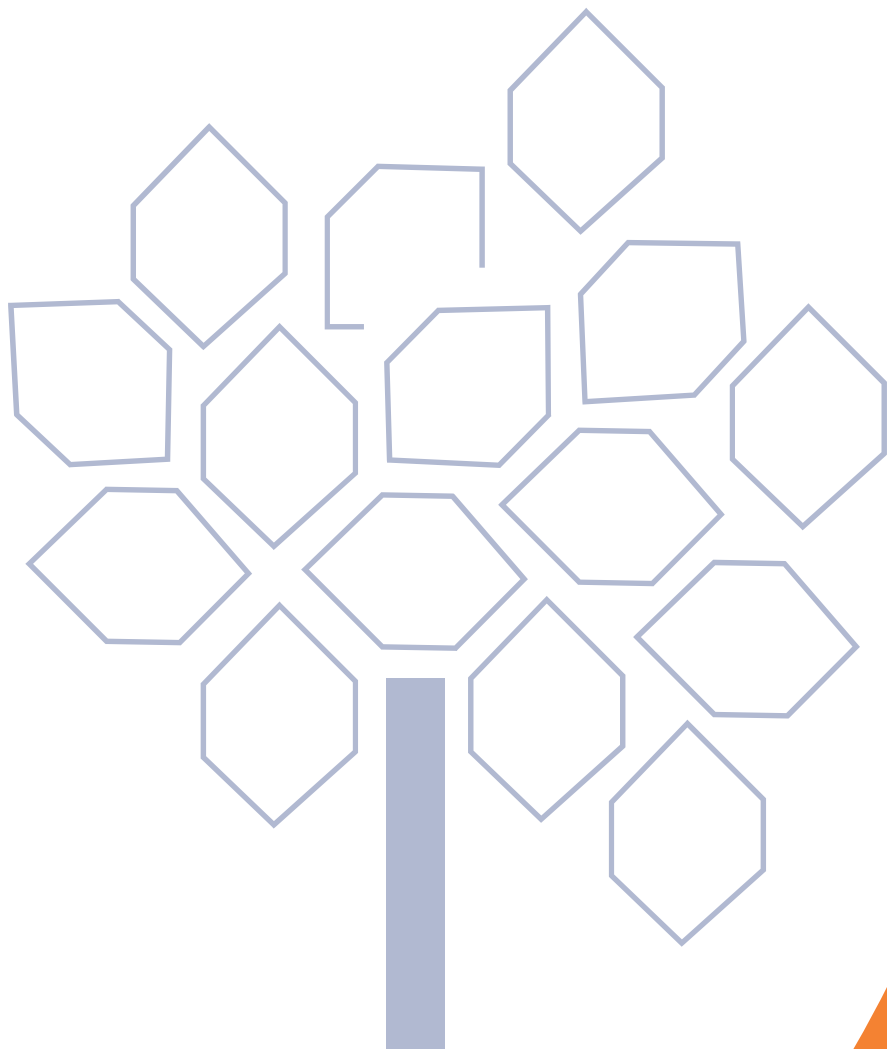
Associates / Associés :

Non-profit Making Associates / Associés à but non lucratif :

European Council of Civil Engineers (ECCE)
Société Européenne pour la Formation de l'Ingénieur (SEFI)
Latin American Engineering Association for Labour Security (ALAIST)
Federal Council of Engineering, Architecture and Agronomics (CONFEA)
Internat. Gesellschaft für Ingenieurpädagogik (IGIP)
The Technical University of Catalonia (UPC)
Pakistan Engineering Council (PEC)
The Japan Federation of Engineering Societies (JFES)
Asian Civil Engineering Coordinating Council (ACECC)
Individual Associates / Associé individuel :

Dr. Mounir Ghribi (Italy)
Dipl. Eng. Hermann Sturm (Germany)
Prof. B.SH. Chowdhry (India)
Mr. Stefan Vogl (Germany)





WFEO/FMOI

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