



**Young Engineers / Future Leaders Committee**  
WORLD FEDERATION OF ENGINEERING ORGANIZATIONS



## **YEFL REPORT- DECEMBER 2016**

## **YE/FL STC Annual Report Contents:**

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## I. 2015 Kyoto STC Meeting Minutes

To:	STC Delegates & Corresponding Members	Pages 6
CC:	Tahani Yousef, WFEO Executive Director; Michael Sanio, YE STC Mentor; Daryl Danyluk, YE STC Mentor	
Subject:	<b>YE/FL STC Meeting Minutes</b>	
From:	Eng. Zainab Garashi, Chair, YE/FL STC; Kathryn A. Johnson, Vice-Chair, YE/FL STC	
Date & Time:	November 29, 2014- 2pm-6pm	
Location:	KCC, Room 501	

### 1. Welcome & Opening Remarks

#### 1.1. Welcome Addresses

- Chairman, Eng. Zainab Garashi
- Vice Chairman, Kate Johnson

#### 1.2. Presentation of Guests

#### 1.3. Presentation of Members

- *See attendee list above.*

### 2. Committee Internal Organizations

#### 2.1. Committee Membership

- *Currently 27 delegates have been named to the committee, but only a handful come to committee meetings each year. Further, we lack consistency in seeing the same faces year after year. This as created a revolving door effect within the committee and makes accomplishing committee goals quite difficult.*

#### 2.2. Summary of Year

- *Strategic Planning Youth Forum- March 2015*
  - *Zainab (Kuwait), Kate (USA), Chris (Nigeria), Taf (South Africa) facilitated a youth forum in Kuwait to better understand the situation of youth as they transition from students to young professionals in industry.*
- *UNESCO Youth Forum- Oct 26-28*



- *Hessa AlSabah attended the forum in Paris and provided a report, which was included in the committee report.*

## **Day One- Monday Oct. 26, 2015 9:00am**

***Young Engineers Future Leader group from Kuwait had attended the Opening Session of the 9th UNESCO Youth Forum that was held by the Director-General. Then there were “Your story of change” where 6 young inspirational change makers share their stories of engaging for a sustainable planet followed by a choir performance by a Chinese School in Paris. We later attended a Futures Literacy Knowledge Labs called “Hopes and expectations” where we all worked in small working groups and young participants initiate discussions on the topics of the Forum exploring their hopes and their expectations for the future.***

*The program was followed by an open area free time in a casual exhibition room where participants have the opportunity to exchange and network with partners that will be present at the Forum via dedicated stands at the Marketplace. Parallel side events are also organized, including “15 minutes of fame”, which is on a small stage and random participants share a certain experience that affected their lives.*

*The following day, we attended sessions such as FL Knowlab called “Take Action”. In plenary, young participants exchanged and cross-fertilized on the recommended macro-level actions developed in the (previous) 3.1 and 3.2 sessions during the day before. Learning personal development and sustainability, capturing the energy of youth, local practices, biodiversity, and disaster were a few of the many topics discussed during that session.*

## **Day Two- Tuesday Oct 27, 2015**

*We have attended “Local Practices Biodiversity and Disasters” Discussion seminar. The seminar was split in groups with the following functions:*

*Group (1):*

- 1. We can minimize the loss of biodiversity by researching to observe other countries heritage.*
- 2. Every country must spend and keep a good financial source for preserving its culture.*
- 3. Some disasters are results of global activities, in India for example over 2200 were lost due to disasters of global activities, hence; an organization must be established for assisting countries that are suffering and also for sharing experiences.*
- 4. Keeping energy new systems that are designed to preserve the energy such as lightening the room once a human enters the place and turning off once the place gets empty, so keeping energy and preserving power must be in all life aspects and must affect a man’s life style as a whole.*



Group (2):

1. *People experience a lot and a lot in natural disasters, and we can all see it through social media, that's why we need to know how to spread awareness and preparing pre-cautions as well as how to get an experience and learn from other people about the actions and decisions they made in order to minimize disaster losses.*
2. *Local community must keep the culture and believe in youth creativity and ability to lead and to come out with different brilliant ideas.*
3. *Society must support and encourage people to search and to focus on a country's culture and heritage, we should make the difference ourselves but of course under the government support.*
4. *There must be an international agreement to place a certain amount for the important needs and must share practices worldwide.*

Group (3):

*Scientists should play a big role in this domain and they need to be supplied with all requirements they would need, moreover; they must participate in conferences held for discussing important issues such as climate change and other natural disasters threatening our world.*

Group (4):

1. *We should collect data and information from successful countries and get use of it as well as trying to improve it and make it better and better with time.*
2. *Big countries must be willing to improve and help small countries and maybe in like 20 years these developed countries could pay back the big countries.*

Group (5):

1. *Creating bridges between all countries to support and help each other is a must.*
2. *Countries must show interest and concern about world disasters taking place.*

Group (6):

1. *A complete team of professionals, scientists, business men, and even those who deal with political issues must be composed for developing purposes.*
2. *We need to build the future of 2040 and have a plan that blends private and governmental sectors that results in a strong structure.*
3. *Training for disasters managing is required.*



4. *Usually many youth volunteers are needed to cover the news for people suffering from disasters and try to reflect the whole experience, in addition to that, they try to supply those people with food, medicine, clothes, and first aids.*

*Day Three- Wednesday Oct 28, 2015*

*A group of us attended the building bridges for inclusion session, which was on Young disabled people from different countries talked about the way they were treated in orphanages. The aim of this session was to let their voices be heard by the world to give them a better life.*

*Another session was on:*

*What we have learned about teamwork and leadership skills:*

*Leadership:*

*How to effectively work in teams and how important it is to know how to work with everyone around me. With leadership, not everyone can be a leader and not everyone can be a follower. When a team has strong leader, they have a much higher chance of success than if they had a weak leader or none at all. We also learned the traits of being a leader, and the responsibilities of a successful one, like decision making, the ability to talk to everyone in group, and problem solving.*

*Growth:*

*Before attending the session, we did not realize how many special traits it take to be a leader. we pretty much just thought a good leader was a person who assigned jobs to other people and didn't really do much themselves. We now know how to work in teams better than we did before.*

*How will we use it?*

*In the future we will use this information to do better job in life. We will be able to communicate in work with co-workers better, and be more successful while working with my peers.*

*It was a very good opportunity to attend this exhibition, all in all it was a success can be used to our advantage currently and in the future.*

## 2.3. Comments on other STC activities

- *Even though attendance in Japan was limited this year, YE/FL Members attended 5 of the other committee meetings and summarized their activities for the committee.*
  - *Anti-Corruption- Kate Johnson (US)*
  - *Capacity Building- Kate Johnson (US)*
  - *Education- Kate Johnson (US)*
  - *Anti-Corruption- Fawaz AlRashdaa (Kuwait), Sarah AlWazzan (Kuwait)*
  - *Women- Hessa AlSabah (Kuwait), Sarah AlWazzan (Kuwait)*

## 3. Review & Comments on Committee meeting minutes in Paris, Dec 2014.

### 3.1. Matters rising from the minutes of the committee meeting in Paris Dec 2014. (Attached Last MOM)



- *Committee Name Change- the subject was discussed with committee members last year at the meeting in Paris. The subject was discussed again at this meeting. Overall, we agree that there could be some advantages to changing the name of the committee to shorten it. However, attendees also agree that the committee has struggled to achieve “brand recognition” within the larger WFEO body and changing the name at this point may set the committee’s visibility back. It was agreed to retain the name as-is at present, and reconsider rebranding in the future should a more appropriate name be proposed.*

## 3.2. Approval of Minutes of the committee meeting in Paris, Dec 2014.

- *So approved.*

## 4. Kuwait 1<sup>st</sup> International Strategic Forum Workshop, March 2015 Report

- *First international forum held in Kuwait. The report of activities, as well as the resulting white paper was included in the YE/FL annual report.*
- *The YE/FL strategy will continue with the forum, exploring the issues young engineers face as they transition from students to young professionals in the remaining regions of: North America, Latin America, Africa, and Europe.*
  - *The third international forum will be held in Peru during WECDRR 2016 in 3-9 December 2017, covering the region of Latin America.*
  - *The European forum will be held during the WFEO events in Rome on Nov 26-Dec 2, 2017.*
  - *The forums for North America and Africa have yet to be scheduled.*
- *YEFL events during WECC2015, Japan*
- *The second international forum is held in Japan to examine young engineer’s transition into industry in the Asia-Pacific region.*
- *Cooperation with other Organizations*
  - *UNESCO (WFEO YEFL and UNESCO Engineering Initiative on the title of Engineering Youth in Action Competition)*
    - *Chair, Zainab Garashi wrote a proposal, but the project has not yet launched.*  
*UEI and WFEO YEFL Engineering Youth in Action*  
*UNESCO Engineering Initiative (UEI) and WFEO Young Engineers/Future Leaders (YEFL) Committee jointly propose to implement a Youth in Action competition. This competition will combine an interactive educational component with data collection activities to quantitatively demonstrate positive change in youth awareness about the importance of engineering as a key driver of social change and sustainable development. With additional support from the Engineering without Borders – UK (EWB-UK) Outreach Committee, this joint UNESCO and WFEO contest will encourage young engineers to create innovative teaching models and activities that effectively inspire the next generation of engineers. The initial competition will focus on the 26 member countries of WFEO YEFL with a lead country in each UN region. The young engineers will submit written*





*reports of their interactive educational module and the subsequent quantitative analysis of its impact on the participants. These submissions will be reviewed by a panel of experts and the winners will be invited to participate in engineering curriculum development projects with UNESCO, WFEO, and its partners. The Engineering Youth in Action competition is an excellent platform for young engineers to connect with students and share their innovative educational ideas and their enthusiasm for engineering.*

- Request to discuss various topics
  - Regional Updates
    - *Alaya- Change Order Research Presentation*
      - *Plan to present this research to the Anti-Corruption Committee, and submit paper to the Capacity Building Compendium for upload.*
      - *Can this research be extrapolated to other countries?*
    - *Fawaz AlRashdaa- (Presentation attached)*
    - *Feras Al Salem- Water Recycling Plant in Wafra (Presentation Attached)*
    - *Ali AlFailakawi-*
- Proposal of plan of Action (*Members are requested to propose action plan for the next 2 years to be discussed with members of the committee.*)
  - *Position Papers*
    - *Social Media- bridges the gap throughout the year.*
    - *Recommendations for Meeting Places, Visa Issues, Expenses, Off-Season*
    - *Implementation of Video Conferencing*
    - *Committee Structure*
    - *Meet with Mentors*
    - *Create SMART Goals*
    - *UN Committee*
    - *Leveraging Big Data*
    - *Consistency with members*
  - *Collaboration with Other Standing Committees*
- Matters Arising
  - *None.*
- Website, Blog, Social Media
  - *Reach/Influence*
  - *Membership*
  - *Suggestions for improvement*





- *Eng. Jafar suggested that WFEO offer an incentive to engage young engineers. For example, a senior engineer who brings along a young engineer could receive a discount on conference fee.*
- *Find a local advisor and cooperate with professional organizations*
- *Networking event*
- *Leadership, presentation skills*
- *Award Ceremony*
  - *To Leaders around the world.*
- **Next WFEO YE/FL Meetings**
  - *Lima, Peru 3-9 December, 2016*
    - *Topic: World engineering Conference on Disaster Risk Reduction (WECDRR)*
    - *In Miraflores residential district*
  - *Rome, Italy- Nov 26-Dec 2, 2017*
  - *London, UK- Dates TBD*
  - *WEC 2019- Melbourne Australia 18-24 Nov, 2019*
    - *Website: <http://wec2019.org.au>*
  - *Prague, Czech Republic 2023*
    - *June or September*
- **Any other business**
  - *Peter Greenwood- Remarks regarding committee self-assessment*
    - *After a couple years of not-so-good assessments, the YE/FL committee received a good assessment this year. Peter provided words of encouragement for our accomplishments so far and continued improvement and development.*
    - *Peter provided some words of advice:*
      - *The YE image is sometimes frightening to senior engineers. They know you are busy, but they don't know what you are doing and where you are going.*
      - *Include a YE in the IAE sub-committee to know what is going on with this committee and learn more about the qualifications, which make an engineer.*
        - *The IAE website has material outlining what a good engineer looks like, and the competencies required to practice.*
        - *One doesn't get to choose what is required to become a professional engineer. And we don't want to dilute the standards.*
      - *Improve Communication and spread the work around.*
        - *Most of all, channel back to the governmental structure of WFEO with frequent updates on YE activities. Overall, the committee needs greater visibility to the WFEO government.*
  - *Remarks from President-Elect Jorge Spitalnik*



- Closing Remarks

## Attendees

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25. Tom McKune	South Africa	Committee Advisor
26. Yashin	South Africa	Chair of Capacity Building STC
27. Adel AlKharaffi	Kuwait	Past President
28. Jorge Spitalnik	Brazil	President-Elect



## **II. WFEO YE/FL International Strategic Planning Forum- Stakeholder Collaboration for Global Integration of Youth in Industry (Asia-Pacific- Japan 2015)**

### **2.1 A WHITE PAPER ON THE WFEO YEFL STRATEGY PLANNING WORKSHOP**

Young engineers are saddled with the pressure of adapting and championing the unprecedented growth in development and application of innovation to solving both well-established problems and also problems people never knew existed. Industries are becoming more amenable to new technologies, creating a gap between the engineering curricula, training and equipment available for young engineers in universities and those in use in engineering industries. This gap makes it difficult for young engineers to transition into industry roles, while also limiting the expression of young engineers ingenuity in solving real and burning industrial problems and social issues; climate change, sustainable energy and power, cyber-security, sustainable infrastructure development, healthcare and others. At the Young Engineers Future Leaders (YEFL) Committee of the World Federation of Engineering Organizations (WFEO), we have taken up the responsibility to use our platform to bridge this gap, by facilitating communication among all stakeholders involved in young engineer's development globally for the benefit of humanity

As we move into our second term as a standing committee, bridging this gap is one of our major strategy objectives. This objective was inspired by the outcomes from the first Young Engineers/Future Leaders Conference in Kuwait in February 2013, which presented indications of diverse and multifaceted concerns impeding the seamless integration of young engineers' into industries in different regions of the world. Our proximate plan to meet this objective is to provide this platform and facilitate communication among all stakeholders involved in young engineers' development in each region of the world, so as collate these pockets of stakeholders concerns into a holistic perspective, representing an informed regional and global position and presenting solution spaces applicable to all young engineers.



## **2.2 MIDDLE EAST STAKEHOLDERS' ENGAGEMENT (YEFL CONGRESS, KUWAIT)**

The inaugural stakeholder engagement session held 3 – 6 March 2015 in Kuwait. The forum gathered stakeholders from private industries, government agencies, universities, and young engineers in the Middle East region to voice their needs and concerns, hence providing an opportunity for open discussions that enabled all parties to better synergize in pursuit of the common objective. A few key stakeholders' views, concerns and expectations from the Middle East forum are presented below. Industries expect young engineers to be disciplined, enthusiastic, ambitious, willing to learn, travel, put in an extra performance, and readily show some initiative, while young engineers expect industries to provide a conducive environment for productivity, job positions with opportunities for growth, a measure of variety in assigned job tasks, and a structured professional development framework. A key highlight from the forum is the need to institute engineering accreditation agencies across the region responsible for continuously evaluating and harmonizing the content of university engineering curricula with the competences required of young engineers in industries. Structured knowledge sharing programs such as internships, sabbaticals, trainings and forums aimed at encouraging collaboration between industry and academia were recommended as short term goals and actions to meet the stated objective. The forum identified divergent stakeholders' views on the perceived need for specific trainings. Young engineers do not see the value some trainings add to their engineering careers, while industry leaders see business goals as necessary inputs determining young engineers' job training. All parties agreed to have standardized national competence (quality) assessments and accreditation, which engineers must aspire to meet in order to enter practice and be productive. These accreditation processes would neither replace nor impede the specific industry on-the-job trainings. Leaders of private companies emphasized the need for young engineers to understand the concept of delayed gratification, stating that organizations notice when value is added to the corporate goals and are always mindful of (young engineers') performance as a key factor for career growth. The need for soft skills development was strongly emphasized! Acquiring the competence to communicate to colleagues, policy makers and the general public across all sectors' traditional 'terminology' barriers was agreed to be very critical.

Entrepreneurship was stated as the most satisfying endeavor for young engineers across the world. The forum agreed that there are lots of opportunity and support for young engineers in Kuwait who decide set



up their private enterprise. The value of establishing a private enterprise is fulfilling personal ambition and creating a job opportunity for oneself and for others, with the added benefit of growing the economy. The Kuwaiti government makes funds available to young engineers for this purpose. The forum agreed that the availability of these funds (across the Middle East region) and the process of obtaining them should be better publicized. Academics should train young engineers to aspire to non-traditional career choices and increase awareness of the potential value stream from such career decisions. It was agreed that a nation's economy is only as vibrant as businesses built by her entrepreneurs, the patriotism of her citizens, and their love of country, hence the need to inspire young engineers towards building such private enterprises.

The World Engineers Conference and Convention (WECC2015) held November 29 – December 3 in Kyoto, Japan, was a great opportunity to gather stakeholders involved in young engineers' development in the Asia-Pacific region. The goal of the forum was to target the peculiar situation and challenges faced by young engineers in the region as they transition into industries. The forum discussed the issues relating to 'Innovation of Youth in Industry' with a focus on the reality of 18 year old CEOs, child mobile app developers, and collegiate humanitarians in various industries and sectors. The skillset required by young engineers to adapt to the evolution of industries deriving better value streams from design-led innovation as against technology-led innovation was also discussed. The 'economical' smart phone, and the 'www' have enabled people all over the world, and regardless of education level, to inform themselves on important issues, making for a more level "playing field". The ability of young engineers to utilize the power of these networks for shifting novelty to innovation, so as to create new businesses from people-sized designs and technologies was also emphasized.

The forum agreed on the need for stronger university-industry partnerships fostered through advisory committees, research chairs, industry sponsored young engineers' competitions, and chapters of professional associations. Structured frameworks for sabbaticals, internships, training, forums and "minor" programs on entrepreneurship were also agreed to be necessary to bridge the gap in young engineers integration into industry positions. There is a tendency of industries to sometimes expect fresh young engineering graduates to be familiar with specific industry software. For this reason, young



engineers with some industry experience tend to be more easily absorbed into industry positions and are also more confident of solving real problems. As an encouragement, universities ought to be more liberal in giving young engineers credit for courses taken under industry exchange programs. The forum agreed that an ideal engineer should be technically competent; a good communicator, a team player, a self-learner, sensitive to social and environmental issues, and should before graduation have some industry and international experiences.

### **2.3 UPCOMING STAKEHOLDERS' ENGAGEMENT FORUMS**

The YE/FL STC plans to continue the discussion in the other regions of the world, identifying the challenges young engineers face as they transition into industry professional positions, while also exploring the factors inhibiting our role as champions in the global industrial evolution to design-led innovation. The international stakeholders' engagement schedule is shown below.

Forum	Event	Host Country	Date	Status
Africa	WFEO YEFL International Strategic Planning Forum	Nigeria / South Africa	2017	Yet to be scheduled
Asia-Pacific	World Engineers Conference and Convention	Japan	1 Dec. 2015	Completed
Europe	World Engineering Forum, (WEFRoma)	Italy	Dec. 2017	Ongoing
Middle East	WFEO YEFL International Strategic Planning Forum	Kuwait	3 – 6 Mar. 2015	Completed
North America	WFEO YEFL International Strategic Planning Forum	U.S.A	2018	Yet to be scheduled
South America	World Engineering Congress (WECDDR)	Peru	3 – 9 Dec. 2016	Ongoing





## **2.4 CONCLUSION**

This white paper, issued for presentation among the wider WFEO body, is the first formal communication of the outcomes of the on-going stakeholders' engagements and strategic planning workshop on young engineers' development held for the Middle-East and Asia-Pacific regions in Kuwait City (March 2015) and Kyoto, Japan (December, 2015). We hope to continue the discussion across the other regions of the world, following the events schedule above. At the end of the regional forums, we plan to issue a position paper which is expected to be a working document providing guidance to governments and policy makers and containing the strategy for bridging the gap between young engineers academic development and industry requirements, and for enabling the cross-pollination of ideas from every part of the world so as to help in reducing the current imbalance in technology and innovation between young engineers in developed and developing countries.

It is our aim to create metrics for continuously monitoring the resolutions and outcomes of these forums, and track changes which may be brought about as a result of these discussions at the regional levels. This plan will be driven and continuously reviewed by the YE/FL committee leadership and national delegates with the aim of realizing the huge opportunities for growth, and untapped potentials in young engineers that are yet to be explored in tackling industry challenges and social issues at the national, regional and global levels. We end this white paper with a request to all stakeholders and policy makers in industry, corporate organizations, governments and NGOs, and the larger WFEO body, to partner with us to give young engineers all over the world the support and enabling environment to translate their ingenuity into working systems for tackling the burning issues threatening our humanity and our world!

### **III. UNESCO Workshop on “Science and Knowledge for Advancing the 2030 SDGs in the Arab Region”**

Eng. Zainab Garashi, Chair of WFEO YEFL was invited to attend UNESCO's Bureau for Science for the Arab States organized a workshop on Science and Knowledge for Advancing the 2030 SDGs in the Arab Region”, (25-26 May, 2016) in Cairo, Egypt. The main objective of the workshop was to formulate a joint vision and outlines of a master plan for the effective activation and deployment of science and knowledge for achieving the SDGs in the Arab region. More specifically, the workshop aimed to identify major issues, challenges and opportunities as well as major responsibilities of stakeholders including the





potential role of UNESCO's Regional Bureau for Science in the Arab States (UCO) in advancing the Science/Knowledge and SDG agenda in the Arab region.

The workshop gathered 30 selected regional experts from 10 Arab Countries.

The workshop participants explored the regional perspective on Science, Knowledge & the SDGs with emphasis on key related issues including the Science/Knowledge – Development Nexus, STI/SDGs Nexus, as well as governance of Science and Knowledge Strategies. To streamline discussions, each of the round tables started with a brief thematic presentation along with a set of suggested questions aiming to define challenges and opportunities to further the role of science and knowledge in achieving the sustainable development goals in the Arab region. The participant thoroughly discussed the above topics and recommended specific actions that may be classified along the following SDG relevant axes:

- I. Science/knowledge the gateway for achieving the SDGs
- II. STI-SDG Nexus
- III. Science/Knowledge Economy NEXUS
- IV. Science/Knowledge, Society and Education/Language
- NEXUS V. Science/Knowledge and Pressing Environmental Challenges
- VI. Science/Knowledge and regional and international cooperation



The Arab Region enters the 21st century while facing many challenges across the social, economic, and environmental arenas of sustainable development. The list of challenges extends to include rapidly growing population, rapid urbanization, increasing social and economic inequalities, weak participatory governance, climate change, water scarcity, and indeed a significant science/knowledge gap.

To launch the much needed regional dialogue towards empowering science and knowledge in sustainable development in the region, UNESCO's Bureau for Science for the Arab States organized a workshop on Science and Knowledge for Advancing the 2030 SDGs in the Arab Region", (25-26 May,



2016) in Cairo, Egypt. The main objective of the workshop was to formulate a joint vision and outlines of a master plan for the effective activation and deployment of science and knowledge for achieving the SDGs in the Arab region. More specifically, the workshop aimed to identify major issues, challenges and opportunities as well as major responsibilities and roles of stakeholders including the potential role of UCO in advancing the Science/Knowledge and SDG agenda in the Arab region.

The workshop consisted of a series of roundtable interactive discussions exploring the regional perspectives on Science, Knowledge & the SDGs with emphasis on key related issues including the Science/Knowledge – Development Nexus, STI/SDGs Nexus, as well as governance of Science and Knowledge Strategies. Each of the round tables started with a brief thematic presentation motivating a set of specific questions aiming to define challenges and opportunities to further the role of knowledge in achieving the sustainable development goals in the Arab region.

The opening session of the workshop included welcoming address by Mr. Ghaith Fariz, Director of UNESCO Cairo Office where he highlighted the role of science and knowledge in enabling Arab States to make best of the opportunity afforded by the World-Leaders' declaration of the 17 Sustainable Development Goals for the 2030 Agenda.

### **Workshop Outcome: The Arab Network for Knowledge and Sustainable Development**



Taking into consideration the comprehensive discussions during the 5 roundtables; the complexity of mainstreaming science and knowledge into strategies, policies and plans; and the essential need for identifying, formulating, and undertaking coordinated actions concerning many of the recommendations and findings of the workshop; the participants made a unanimous decision to launch the “**Arab Network for**



### **Knowledge and Sustainable Development”.**

While the founding nucleus of the network consists of the participating experts in their individual and/or institutional capacities, the network is envisioned as an open network that will include individuals, entities, and organizations including NGOs who are concerned with Science and Knowledge, education, and the promotion of science/knowledge-sustainable development interface.

### **Functions of the Network**

1. Act as a regional platform for exchange of knowledge and information on “science/knowledge for sustainable development”
2. A platform for fostering and facilitating partnerships and resource mobilization for joint action on deployment of Science and Knowledge for achieving the SDGs. This includes:
  - Conceptualization and formularization of joint programmes, projects, and activities involving 2 or more entities/agencies.
  - Presenting/submitting actionable joint projects and activities to partners, donors and funding agencies.
  - Joint implementation (or coordinated) of projects, activities and programmes of 2 or more entities/agencies.

The network will be coordinated by UNESCO Regional Bureau for Science in the Arab States who will serve as the secretariat for the network. The Secretariat will propose, within a reasonable time frame, to the members of the network a communication plan that makes use of modern communication platforms.

The founding members of the Arab Network for Knowledge and Sustainable Development discussed several potential projects based on the recommendations of the workshops’ roundtables. These can include:

- Transfer and localization of technologies: Formulation of joint project on Water Desalination and reuse (in irrigation) using solar energy
- Language in science/knowledge: Regional project “writing and translation for Children” focusing on promoting science and knowledge values.
- Science-SDG Monitoring of evaluation: Establishment of an Arab Observatory for Sustainable Development Indicators. Establishment of an STI platform/portal
- Science-SDG Awareness: Economic value of sciences and SDGs: Assessment of the economic losses stemming from lack of use of science and knowledge in SDG related endeavors.
- Awareness campaign on Sciences/SDGs: A regional campaign to raise societal awareness on SDGs and the 2030 Agenda. Targeting Arab youth and utilizing Social media
- Capacity building particularly for the youth: supporting national and regional efforts to enhance capacities and engagement of the youth in science and technology transfer and localization.



#### IV. YEFL Member List

Total WFEO National members: 86 Countires

YEFL Official Representatives: 28 Countires

NAME	YE DELEGATE
ARGENTINA	Pablo Bereciartua
AUSTRALIA	Daniel Rowe
BAHRAIN	Hussain Maki
BRAZIL	Vinicius MarcheseMarinelli
BANGLADESH	Kazi Khairul Bashar
BELIZE	Victor Miranda
COSTA RICA	Mario Poveda
EGYPT	Farida Taher
GERMANY	Sebastian Siemes
HONDURAS	Andres Escoar
INDIA	Rahul Gaba
ITALY	Gianni Massa
KENYA	Grace Onyango





KUWAIT	Zainab Lari
LEBANON	Mohamad Makkouk
NIGERIA	Chris Chuks Chukwunta
PAKISTAN	Waqas Latif
PERU	Manuel Asmat
SIERRA LEONE	Amadu Barrie
SINGAPORE	Fam Mei Ling
SLOVENIA	Goran Pregelj
SOUTH AFRICA	Andrew Mckune
SWITZERLAND	Friedrich Kalix
TAIWAN (ROC)	Richard Moh
TANZANIA	Wakati Ramadhani
Un.Arab.Emirates	Salem Ali Bin Kenaid
UNITED STATES	Kate Johnson
ZIMBABWE	Tendai Nharo

## V. YEFL Representative in other STC

Name	Committee
1. Grace Onyango- Kenya 2. Emose Eloho- Nigeria	Disaster Risk Management Committee
1. Kate Johnson- USA	Education in Engineering Committee
1. Sebastian Siemes- Germany 2. Musa Salmamza- Nigeria	Energy Committee
1. Gladys Okoro- Nigeria	Women in Engineering Committee
1. Tafadwza Mukwena- South Africa	Innovative Technologies Committee
1. Gladys Okoro- Nigeria	Engineering and Environment Committee
1. Ovens Ehimatie- Nigeria	Information and Communication Committee
1. Kate Johnson- USA	Anti Corruption committee

1. Ovens Ehimatie- Nigeria
2. Emose Eloho- Nigeria

Capacity building Committee

## **VI. YEFL Financial**

The YEFL committee will not be requiring any financial support from WFEO for any projects as agreed during the establishment of the committee.