UNESCO - THURSDAY 27.10.2022

<u>Roundtable – Engineering as a lever to achieve UNESCO's priorities</u> <u>for Africa and SIDS</u>



President, Institution of Engineers Mauritius(IEM) President Elect of the Southern Africa Federation of Engineers (SAFEO)





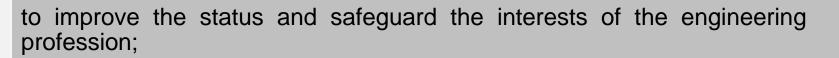




Institution of Engineers Mauritius was created on 26.02.1948

to foster engineering science and its application in all engineering disciplines;

to ensure the highest standard of service in engineering;





to guard against, and eliminate all forms of discrimination within the engineering profession, including gender inequalities, and to use best endeavor to advocate and promote equal opportunities to men and women engaging into engineering education, and in the course of their training and employment, and in their general advancement.





Sponsored the enactment of the Council of Registered Professional Engineers Act in 1965 and amended in 1966

Requirement to practice in Mauritius:





* Two years of supervised experience





 IEM is engaged in mentoring the graduate engineers for two years leading to their registration

 Since 2017 – change its constitution to set up the Engineering Accreditation Board benchmarked with Washington Accord



Being mentored by ECSA and NBA under patronage of WFEO/UNESCO Education Committee





Working with the three public national universities for the upgrading of their engineering programmes to meet the standard based on OBE principle to meet the Washington Accord Standard

Plan to apply for Provisional status of WA membership in June 2023







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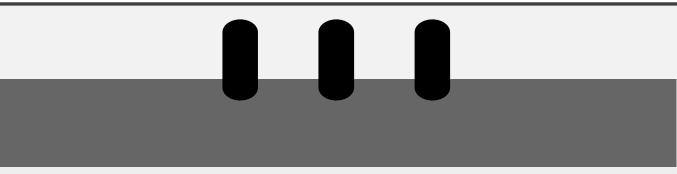
Education of the engineers through CPDs



UNESCO funded project for trainers of teachers and integration of C/C into the national school curriculum (22-25 November 2022)







IEM is also recognized and consulted on major national issues such as with regard to standards (MSB), Energy policies, Climate Change mitigation and adaptation programmes, water security strategy etc.







Question of the day:

The pandemic has unearthed new vulnerable areas in Africa, regarding scientific and Technological advances. What are some concrete ways engineers can help communities in the African Region in this area?

Answer: caught the authorities off their

Pandemic

guard

There was no planning or contingenc ies to deal with the pandemic

Lack of an early warning system Pandemic has highlighted the short comings in areas of communic ations

internet coverage to get informatio n and to disseminat e informatio n across large

areas

Lack of

Infrastruct ure has also been a major hurdle to get help where it was most needed







Climate Change issues have compounded the problems

Severity in CC has brought about severe drought and flooding, forest fires and energy insecurity, diseases, lack of medicines and access to medicines

Inaccessibility to information



Inaccessibility to vaccines. Africa /SIDS were at the end of the line to receive vaccines because of incapacity to compete for vaccines and also because of distance between place of manufacture to the country and logistics required to deliver.





Relevance of education with regard to C/C

Relevance of yesterday's education to today's and tomorrow needs

Challenges EDUCATION



Reticence of Universities to change and update their teaching programmes

New Programmes to deal with new challenges





Better land Use planning With defined zones for different land use

Renewable energy in Africa and SIDS is abundantly available due to sun, wind

Engineers play major role in all these areas

Pro-Active Planning

Flood plains ecosystem pressure on land use in coastal areas

Advance warning system to warn against tsunamis, cyclones and flooding









