



# The AFSEC Newsletter

• December 2013 •

## Message from the AFSEC President

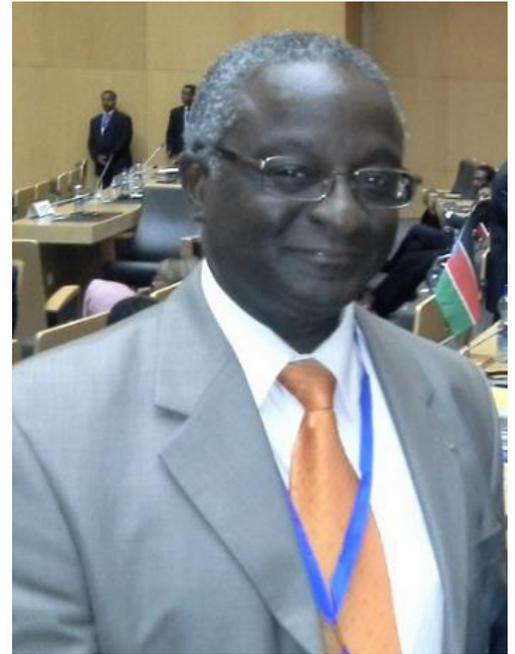
Dear members and AFSEC stakeholders, as we approach the end of the year, we can say with satisfaction that AFSEC our young organization has made substantial progress that inspires admiration despite the constraints it has faced.

Indeed, today, our organizational structure is now effectively in place. Our first five technical committees are functioning normally.

We commend the presidents, secretaries and all members of the technical work done for that will be developed in 2014. They have demonstrated their ability to advance the standardization work.

Regarding other points of satisfaction in 2013, we noted that:

- The first harmonized standards have been adopted. We ask you to promote them.
- The accession of new members
- The management committee is complete with its regional component.
- The position of treasurer has been filled. We congratulate Khaled Eldistawy from the Egyptian National Committee for the appointment.
- The mandate of the Executive Secretary has been renewed. Paul Johnson, thank you for the good work done so far. We give our full support in the fulfilment of your second term of four years.
- The strong impact of the seminar on the evaluation of conformity of the electrical equipment Nairobi from 26 to 27 August 13: It was demonstrated that countries that do not have laboratory can use the IEC system for verifying the conformity of electrical equipment into their territories.
- The signing of the cooperation protocol of African structures quality between ARSO, AFREC AFRIMET and AFSEC, and the MoU between ARSO and AFSEC.
- The presentation of activities AFSEC the 77th IEC General Meeting in New Delhi in October 2013, with a strong resolution on supporting activities AFSEC. Also the meeting with the Executive Secretary of the IEC on establishing an office for Electrotechnical Standardization in Africa like other continents.



As the Back office for several years, the staff of the Management Company Association, van der Walt & Co, provides us support for the effective functioning of AFSEC services. We wish solemnly to thank them for the support and the great work they does every day at the secretariat in administration, management, finance , translation of documents, compiling our newsletters and support our website..

2014 promises to be an eventful year for AFSEC. Major challenges will include:

- The establishment of conformity assessment committee;
- The establishment of the Technical Committee 82 for the consideration of rural electrification problems;
- Monitoring the work of the technical committees by the implementation of their action plan and the development of their relations with the mirrors of the IEC and CENELEC committees;
- The finalization of discussions on the permanent HQ of AFSEC with the authorities of South Africa;
- The implementation of the new level of contributions adopted at the 3rd AG Nairobi in August 2013;
- The modernization of our website through the excellent cooperation we received from the IEC, our site has a new look and additional services for members;



- The organization of the first Africa Smart Grid Forum in Abidjan in May 2014 with the support of the IEC , CENELEC, DKE, State Grid Corporation of China, KATS (Korean Agency for Technology & Standards) and the AFREC / AU (African energy Commission of the African Union);
- The first African tour of the new Executive Secretary of the IEC reflecting the importance of Africa in African Electrotechnical Standardization;
- The 4th General Assembly in September 2014 AFSEC Democratic Republic of Congo (DRC) with elections for the mandate of the executive for the term commencing January 2015.

We count on your effective participation in all activities.

You find in the rest of your newsletter useful information. Note that this is a facility available to publicize the important work you do every day in your national electrotechnical committees.

Finally, I take this opportunity to wish all members, partner organizations, stakeholders and colleagues a happy peaceful end of the year, and filled with happiness for you, your families and friends.

Happy New Year for 2014.

**Claude KOUTOUA**  
**AFSEC President**

---

## **The AFSEC/IECEE seminar – A first for Africa**

IECEE and AFSEC held an international seminar on electrical safety and conformity assessment in Nairobi, Kenya from 26-27 August 2013, the first such event in Africa. It attracted 62 participants from 14 African countries namely; Egypt, Kenya, Nigeria, South Africa, Côte d'Ivoire, Ethiopia, Namibia, Rwanda, Tanzania, Ghana, D R Congo, Uganda, Zambia and Gabon.

The event provided a general presentation of conformity assessment at the IEC, as well as three specific sessions on electrical safety for refrigerators, luminaires as well as audio and video electronic equipment. International experts helped African delegates understand the mechanisms to check the conformity of specific products against IEC International Standards and how to access online certificates.



The event was organized in collaboration with several African organizations including AU (African Union), AFREC (African Energy Commission of the African Union) and KEBS (Kenya Bureau of Standards) in partnership with two Kenyan laboratories.

Participants learned to apply three IEC International Standards that relate to the electrical safety of refrigerators and luminaires as well as electronic equipment.

The seminar was conducted by the Executive Secretary of IECEE, Pierre de Ruvo, and three international experts Fabio Gargantini, Jean Lanzo and Ling Vicky Zhang, whose expertise and willingness to share was much appreciated.



## AFSEC Third General Assembly



AFSEC hosted its Third General assembly on 29 August 2013 in Nairobi, Kenya, where several important milestones were reached in the development of AFSEC:

- The first group of IEC standards were approved, being recommended for common adoption by AFSEC members, [see last page of this newsletter for a complete list of the recommended standards],
- The completion of the appointment of all office bearers and the members of the management committee; including the appointment of Khaled Eldistawy of Egypt as the first treasurer of AFSEC,

- A decision to establish the AFSEC Conformity assessment committee,
- A decision to establish a new AFSEC technical committee to mirror the work of IEC TC 82,
- Approval of the project plan to prepare the Guidelines for rural electrification in Africa,
- Approval for the AFSEC Executive to negotiate with South African authorities for the permanent headquarters for AFSEC to be hosted in South Africa.



## Other AFSEC activities during the course of 2013

**AFSEC was represented in a number of events in 2013, including:**

- African Union Summit, Addis Ababa, Ethiopia January 2013
- SADCSTAN meeting, Luanda, Angola – March 2013
- CENELEC General Assembly, Copenhagen - June 2013
- Formal launch of the Pan African Quality Infrastructure (PAQI) and signing of the PAQI institutions multilateral MoU, Nairobi, Kenya - 30 August 2013
- The IEC General meeting, New Delhi, India - 21-25 October 2013

### **Pan African Quality Infrastructure [PAQI] Multilateral MoU [AFRIMETS/AFRAC/ARSO/AFSEC]**

The Integrated PAQI model was presented to and accepted by the Conference of African Ministers of Industry in June 2013. A signing ceremony of the MoU took place on the 30th of August 2013 in Nairobi.

**Photograph: Signing of the PAQI institutions multilateral MoU on 30 August 2013 in Nairobi, Kenya**





Some events involving AFSEC:



**M. Claude Koutoua, President of AFSEC, seen here with South African President, Jacob Zuma at the AU summit in Addis Ababa, January 2013.**



**AFSEC Executive meeting with the staff of the AU commissioner for Infrastructure and Energy, AUC Headquarters, Addis Ababa.**

## **Action plan for AFSEC 2014-2016**

Having adopted the action plan for 2014-16, AFSEC has a very busy schedule coming up in the New Year. The events for 2014 include a smart grid forum in May and the fourth general assembly in September.

### **Smart Grid forum 14-16 May 2014 Abidjan:**

Members of the NEC of Côte d'Ivoire will host a smart grid forum from 14-16 May 2014 in Abidjan. Several organisations are providing support for this event, including the IEC, the German National Committee DKE as well as industry in Côte d'Ivoire. The event will include presentations workshops and exhibitors with the aim of providing AFSEC members with the latest technical information on smart grid technologies and the standards for implementing smart grids. Interested parties are urged to participate and should contact the AFSEC secretariat for more information.

[secretariat@afsec-africa.org](mailto:secretariat@afsec-africa.org)

### **Guidelines for rural electrification:**

AFSEC has applied for funding from PTB Germany to complete the project on the development of guidelines for rural electrification in Africa. In this regard the IEC is promoting the application of the IEC 62257 series of international specifications which are intended to be core references for these guidelines. The IEC has made special purchasing arrangements for IEC 62257 as part of its contribution to the UN-backed Sustainable Energy for all (SE4ALL) initiative.

### **Fourth AFSEC General Assembly September 2014, Kinshasa:**

The Fourth General Assembly will be hosted in Kinshasa by the NEC of D R Congo and is scheduled for September 2014. Following on the success of the first IECEx-AFSEC seminar in Abidjan in November 2012, it is planned to hold a second IECEx-AFSEC seminar co-located with the fourth general assembly.



## **IEC standards approved for common adoption by AFSEC members**

- IEC 62052-11** - Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 11: Metering equipment
- IEC 62053-11** - Electricity metering equipment (a.c.) - Particular requirements - Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)
- IEC 62053-21** - Electricity metering equipment (a.c.) - Particular requirements - Part 21: Static meters for active energy (classes 1 and 2)
- IEC 62058-11** - Electricity metering equipment (AC) - Acceptance inspection - Part 11: General acceptance inspection methods
- IEC 62058-21** - Electricity metering equipment (AC) - Acceptance inspection - Part 21: Particular requirements for electromechanical meters for active energy (classes 0,5, 1 and 2)
- IEC 62058-31** - Electricity metering equipment (AC) - Acceptance inspection - Part 31: Particular requirements for static meters for active energy (classes 0,2 S, 0,5 S, 1 and 2)
- IEC 62056-21** - Electricity metering - Data exchange for meter reading, tariff and load control - Part 21: Direct local data exchange
- IEC 62056-5-3** - Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer
- IEC 62056-6-1** - Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS)
- IEC 62056-6-2** - Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes
- IEC 62055-31** - Electricity metering - Payment systems - Part 31: Particular requirements - Static payment meters for active energy (classes 1 and 2)
- IEC 62055-41** - Electricity metering - Payment systems - Part 41: Standard transfer specification (STS) - Application layer protocol for one-way token carrier systems
- IEC 62055-51** - Electricity metering - Payment systems - Part 51: Standard transfer specification (STS) - Physical layer protocol for one-way numeric and magnetic card token carriers
- IEC 61439-1** - Low-voltage switchgear and control gear assemblies - Part 1: General rules
- IEC 61439-2** - Low-voltage switchgear and control gear assemblies - Part 2: Power switchgear and control gear assemblies
- IEC 61140** - Protection against electric shock - Common aspects for installation and equipment
- IEC 61970 [all parts]** - Energy management system application program interface (EMS-API)
- IEC 61850 [all parts]** - Communication networks and systems in substations