

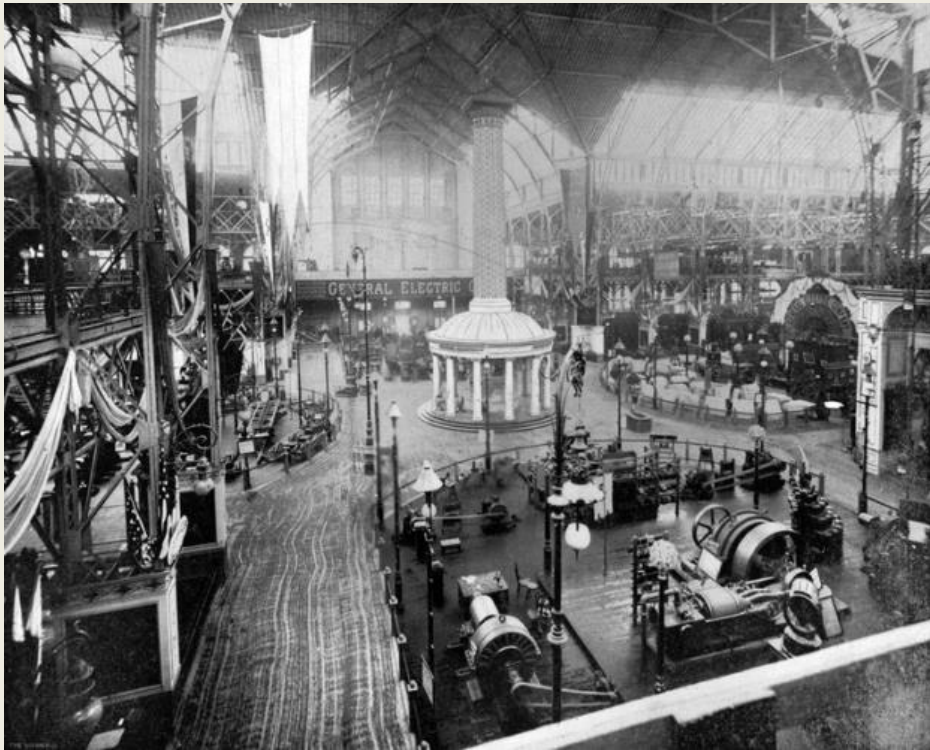


IECEX ExTAG Training Workshop – 23 September 2019 Dubai

Chris AGIUS
Executive Secretary IECEx

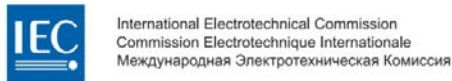
IEC: In the beginning

St. Louis 1904: palace of electricity



- Officially formed in 1906 – Lord Kelvin the first IEC President
- Formed to serve needs of industry – “Standardisation”
- Continues to evolve to the needs of industry

- **International Electrotechnical Commission**
- **Founded in 1906 - Promote international co-operation on all questions of standardization and related matters in the fields of electrotechnology, including Conformity Assessment.**



IEC Masterplan

Vision

IEC everywhere for a safer, more efficient world.

Mission

Our mission is to achieve worldwide use of IEC International Standards and Conformity Assessment Services that ensure the safety, efficiency, reliability and interoperability of electrical, electronic and information technologies, to enhance international trade, facilitate broad electricity access and enable a more sustainable world.

Values

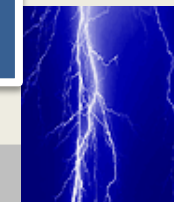
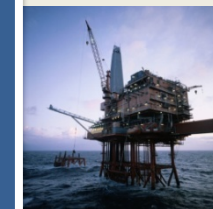
According to the IEC Masterplan:

Standardisation

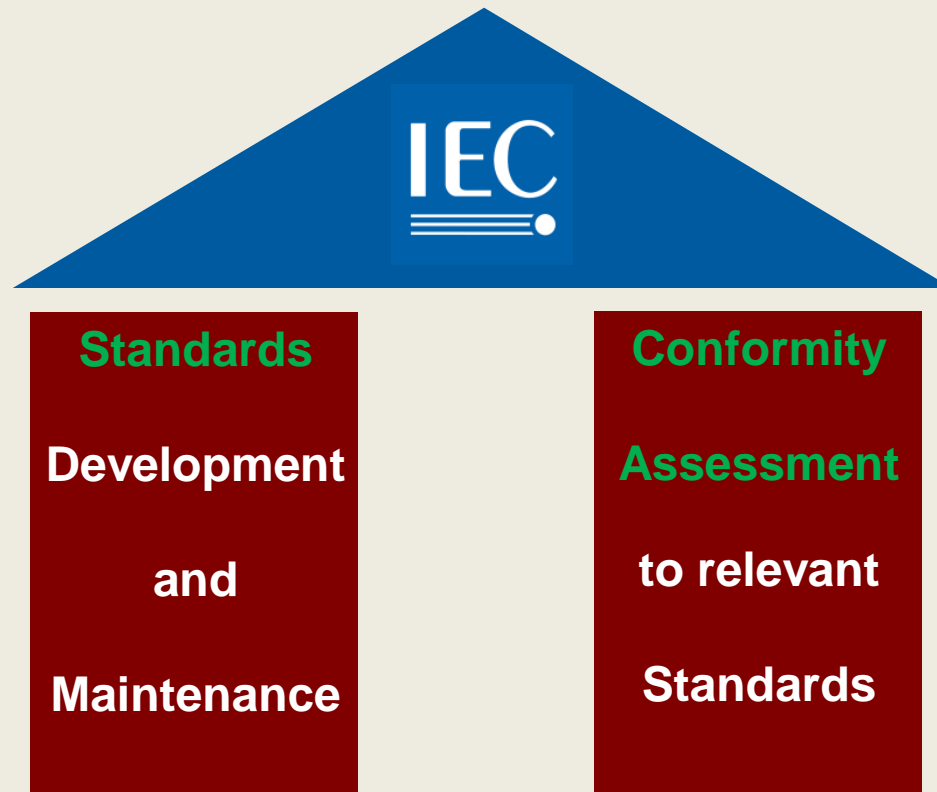
+

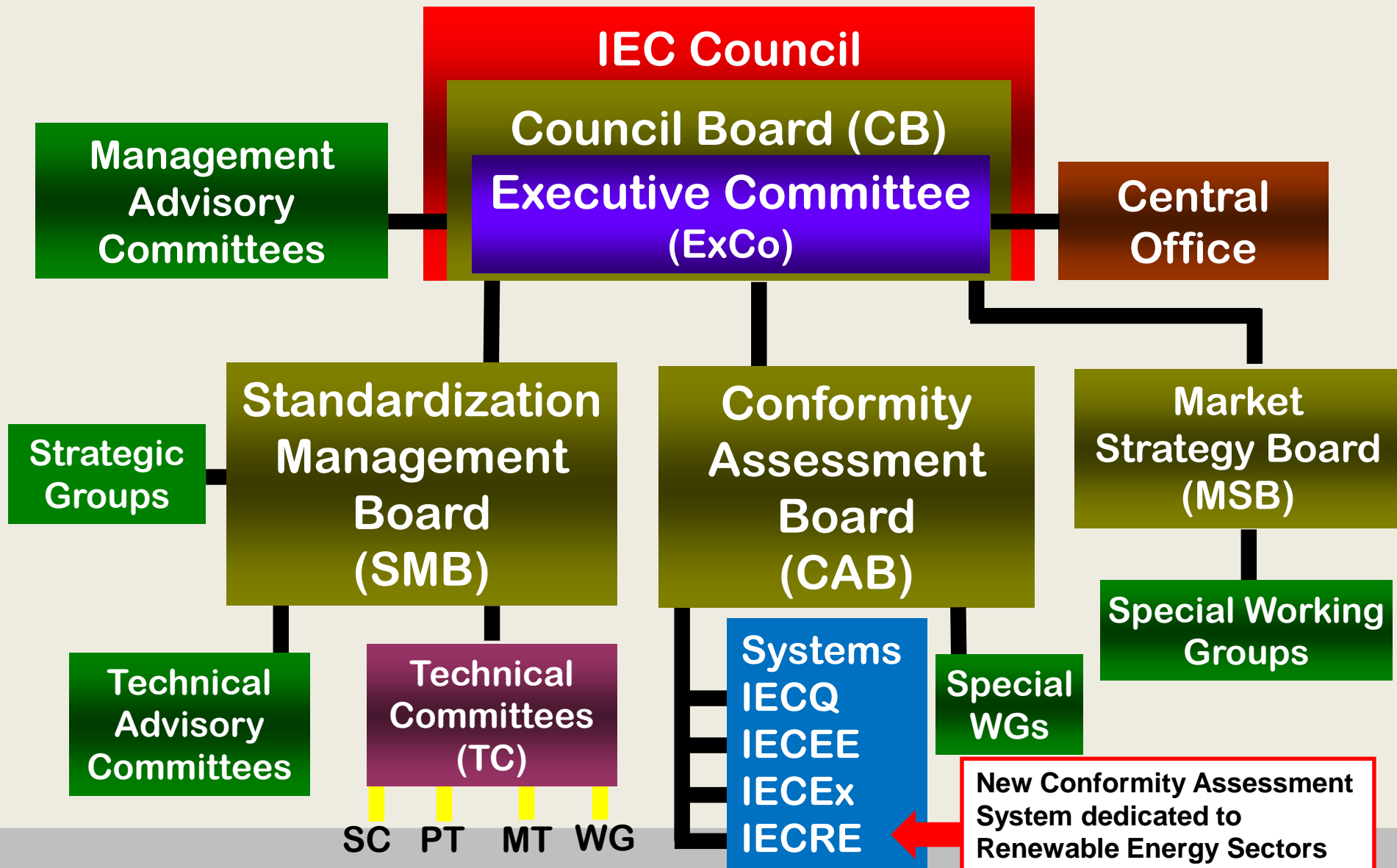
Conformity Assessment

The 2 Pillars of IEC



Two Pillars of the IEC Organisation





IEC locations around the world

Reset zoom



IEC Central Office & IECEE/IECRE Secretariat



IEC Central Office

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[✉ IEC Central Office](#)

[More about the IEC Central Office](#)

Visit the [IECEE](#) & [IECRE](#) websites



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[More about the IEC-AFRC Office](#)

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[✉ Dennis Chew](#)

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IEC-LARC

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[✉ Amaury Santos](#)

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IEC-ReCNA

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U.S.A.

Tel : + 1 508 755 5663

[✉ Tim Rotti](#)

[More about the IEC-ReCNA Office](#)

IEC CA 01 Clause 8.6

The Secretariat is provided by the Central Office and may reside in the IEC Central Office or elsewhere. The IEC General Secretary & CEO in consultation with the IEC CA System shall decide on the degree of administrative support provided by the Central Office.

IEC CA 01 Clause 8.7

The Executive Secretary is entrusted with the chief executive officer functions of the IEC CA System in consultation with the executive thereof, as delegated by and under the supervision of the IEC General Secretary & CEO. The routine work of the CA System Executive Secretary is to:

- a) provide general administrative and secretarial services for the IEC CA System and the secretarial services to the CA System MC;
- b) handle and be responsible for the daily financial matters of the Secretariat and the IEC CA System;
- c) More.....



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**Chris
Agius**



**Christine
KANE**



**Ashley
REES**



**Mark
AMOS**



**Mike
ROY**



**Sarah
HARDIE**



**Steve
ALLAN**



**Donna
CROFT**

- **Day to Day running of the System**
- **Financial Management, with Treasurer and Executive**
- **Oversee Development of new services**
- **Maintenance of existing services and supporting elements, eg Documentation, website etc**
- **Promotion and Marketing and growth.**
- **Compliance, eg:**
 - Industry complying with IECEx Rules and General Business practise, eg any misuse of the IECEx
 - Membership Compliance, eg ExCBs+ExTLs
 - Secretariat Compliance with roles and responsibilities

IECEX System

IECEX Equipment Scheme
Certification of Ex Equipment

Choice between:

IECEX "Certificate of
Conformity"

IECEX "Component
Certificate"

IECEX "Unit
Verification" Cert.

IECEX Conformity Mark License



IECEX Services Scheme
Certification of Ex Service Providers



IECEX Certificate of Personal
Competence Scheme (CoPC)

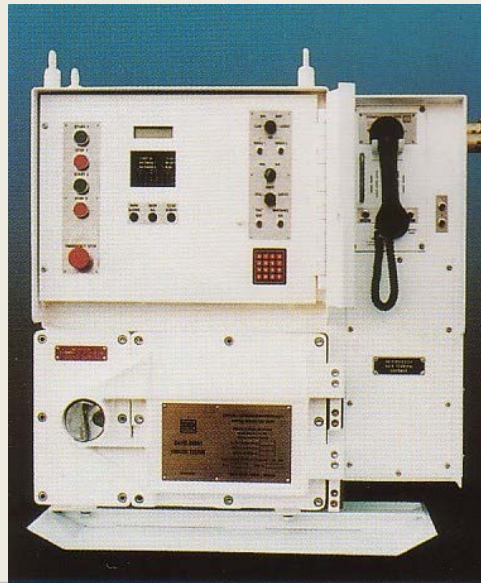


IECEX Recognised Training Provider
Program (RTP)
Recognition of Training Bodies supporting CoPC

- **1992** – TC 31 Concept - IEC survey reveals agreement to develop a standalone International Ex scheme, WGEx formed to develop nucleus of a Scheme.
- **1994** – IECEx 04 Rules published / **1999** converted to IECEx 01 + IECEx 02
- **1996** – First meeting of Management Committee, in London appointment of Officers (**Ian Cleare** first IECEx Chairman, **Chris Agius** appointed Exec Secretary)
- **1997** – 1999 Development of IECEx structure, first round of peer assessments.
- **1999** – Scheme commences “Transitional” Operation - Issue Ex Reports (ATR)
- **2000** – First National Ex Certificate issued on basis of IECEx Test and Assessment Report (ATR)
- **2002** – IECEx Management decision to move to FULL level (Type 5) and issuing of “IECEX Certificates of Conformity”
- **2003** – IECEx “On-Line” Certificate of Conformity System in operation – FIRST IECEx Certificate issued – 130 CoCs issued 1 year later
- **2007** – IECEx Services Scheme / Repair. Launched
- **2010** – New IECEx Certified Persons Scheme Launched
- **2011** – United Nations UNECE formally endorses IECEx.

Includes Mechanical

- Transducers, Sensors etc
- Switchgear
- Control Stations
- Motors
- Luminaries and Lighting
- Underground vehicles
- Radios + Communication
- Junction boxes
- Control Modules
- Control Systems
- Instrumentation
- Analyser houses
- Ventilation Rooms
- Components
 - Terminals
 - Adaptors / Reducers
 - Cable terminations
 - Glands
- Many others



An IECEx Certificate is more than just a piece of paper or electronic file!!!
It is a Compliance Instrument used by different stakeholders, including Inspectorates + Regulators.

Key Message:
<Certificates need to be clear>

IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres	
for rules and details of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEX BAS 08.0111X Issue No. 1
Status:	Current
Date of issue:	2010-02-10 Page 1 of 4
Applicant:	Hawke International A Division of Hubbell Limited A Member of the Hubbell Group of Companies Cotford Street West Ashton-under-Lyne Lancashire OL7 0NA United Kingdom
Electrical Appendix:	PR411 and PR453 Cable Glands
Optional accessory:	
Type of Protection:	Flameproof, Increased Safety and Dust
Marking:	Ex d IIC Ex e II Ex tD A21 IP66 (-60°C ≤ ta ≤ +80°C) for the PR453, or +100°C for the PR411
Approved for issue on behalf of the IECEx Certification Body:	R S Sindair
Position:	Managing Director
Signature:	(for printed version)
Date:	
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.	
Certificate issued by:	 Baseefa Rockhead Business Park Staden Lane Buxton Derbyshire SK17 9RZ United Kingdom

 Rockhead Business Park Staden lane, Buxton, Derbyshire SK17 9RZ United Kingdom	
ANNEX to IECEx BAS 08.0111X	Issue No. 0
	Date: 2009/02/13

Each of the following gland types may be manufactured in brass, stainless steel or aluminum and may be supplied with specified alternative entry thread forms.

Variant 0.1 - Type PR 411


The Type PR 411 cable gland is intended for use with an effectively filled circular cable in flameproof applications. For other protection concepts the cable gland is intended for use with effectively filled circular, unarmoured, armoured, steel basket weave armoured or braided (screened) cable and comprises the following components :-

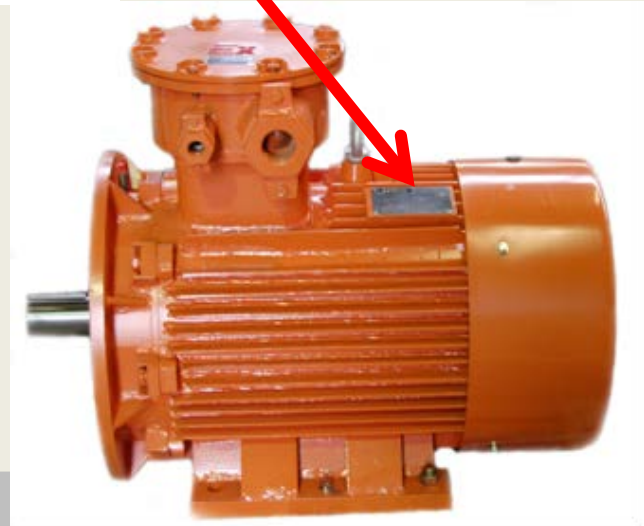
- a. An entry component in the size ranges Os to F (M16 to M75)
- b. A compressible sealing ring
- c. A nylon skid washer
- d. A threaded compression spigot

Variant 0.2 - Type PR 453

The Type PR 453 cable gland is intended for use with an effectively filled and circular armoured or braided cable and comprises the following components :-

- a. An entry component, in the size range Os to F (M16 to M75)
- b. A compressible sealing ring
- c. A combined compression spigot and armour clamping cone
- d. A dedicated armour, or braid, clamping ring
- e. A middle nut
- f. An outer seal assembly (sleeve seal and support ring Os-F)
- g. A back nut

 3-AC Induction Motor EX IEC 60034-1 AS 1359									
Ex mark ExdI/IIB T4/T5					Ex Cer. No.: IEC Ex ITA 10.0025X				
TYPE					N°			kg	
kW	Hz	V	AMP	RPM	EFF.	COS ϕ	T.AMB	T.RISE	CONN.
Ins.CL.	S	IP	BRG DE				NDE		
MEPS COMPLIANT					www.rototech.com.au				



Under the IECEx Certified Equipment Scheme, the IECEx Certificate number displayed on the product matches the Master version on the website – provides instant verification of claims of IECEx Certification

United Nations Publication,
 March 2011 endorsing IEC TC 31
 Standards + IECEx as “world’s
 best practice”, now re-confirmed
 in 2019..



UNECE United Nations Economic Commission for Europe

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Press Release

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Helping smaller countries protect their populations from danger in explosive environments
 New UNECE publication offers regulatory framework

Geneva, 22 March 2011 --

The United Nations Economic Commission for Europe (UNECE) has just issued a publication that helps address the hazards in environments with a high risk of explosion such as mines, refineries, chemical plants and mills.

The booklet “*Common Regulatory Framework for Equipment Used in Environments with an Explosive Atmosphere*” can be used by countries that lack regulation in this sector as a blueprint for their legislation, and also for aligning existing national regulations with internationally harmonized best practice.

“Ex-equipment” for use in such hazardous environments needs to be specially designed, installed, maintained and repaired to eliminate potential sparks and open flames. This heterogeneous sector plays an important part in many areas of economic activity, and represents an important component of international trade.

This equipment therefore undergoes severe testing and certification, which is very costly. Because differing legislation often does not allow countries to accept the testing and certification done in another country, manufacturers generally must have devices re-tested and re-certified whenever they want to enter a new market. For some companies, this

[Full Text](#)

http://www.unece.org/press/pr2011/11trade_p03e.htm

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

**A Common Regulatory Framework
 for Equipment Used in Environments
 with an Explosive Atmosphere**

UNITED NATIONS



Thank you