

# Presentation to SIS

November 10, 2020

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## Standards: The Need for Global Standards and the Technical Support Needed to Meet Market Needs

Gary Baumgardner, Chair ISO TC131

# First bit about my Fluid Power Background

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- **Degreed Engineer: Graduated in 1971**
- **MBA (Masters in Business Administration) 1985**
- **Worked in Fluid Power industry for over 46 years**
- **Now retired but still active in support of NFPA (National Fluid Power Association (US Fluid Power standards supporting body) and ISO**
- **Current chair of ISO TC131**

# Purpose of my presentation today

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- **My desire to increase commitment and support for standards development and maintenance globally.**
- **All Standards have a useful life.**
- **Standards need to be kept up to date to the meet the ever changing needs of industry**
- **Finding the people with the talent, time, and commitment to maintain standards is critical.**

# The beginnings of ISO



In 1946 delegates from 25 countries met at the Institute of Civil Engineers in London and decided to create a new international organization 'to facilitate the international coordination and unification of industrial standards'.

On February 23, 1947 the new organization, ISO, officially began operations.

## ISO STANDARDS AT A GLANCE

A PORTFOLIO OF

# 22 913

INTERNATIONAL STANDARDS AND  
STANDARDS-TYPE DOCUMENTS

THESE STANDARDS REPRESENT  
A TOTAL OUTPUT OF  
**1 096 398 PAGES** IN ENGLISH  
AND FRENCH (TERMINOLOGY  
IS ALSO OFTEN PROVIDED  
IN OTHER LANGUAGES)

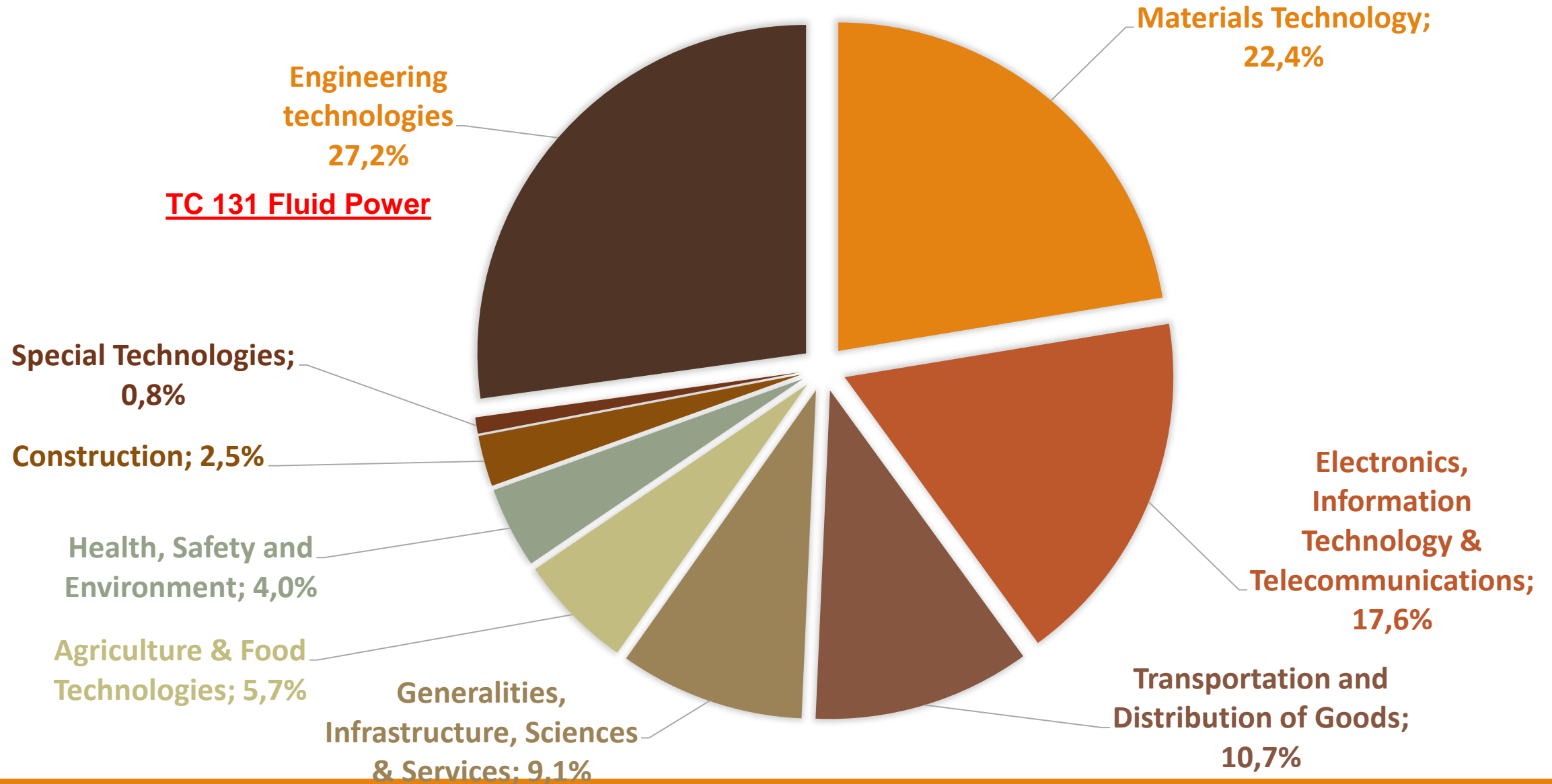
RECORD NUMBER  
PUBLISHED IN 2019

# 1638

THIS OUTPUT REPRESENTS  
A TOTAL OF **84 313 PAGES**

Source ISO 2019 annual report

# ISO Standards Cover



# ISO/TC 131 work includes:

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- **234 currently published standards**
- **Published standards come up for systematic review every 5 years.**
- **Currently there are 19 standards up for systematic review.**

# ISO/TC 131 Participating Countries

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- **15 actively participating countries.**
- **22 countries that observe TC131 activities**



# To cope with the work load

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- **9 Sub Committees**
- **The sub committees currently have 27 active working groups**

# ISO Focus - Energy Savings

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- **Efficient system design key**
- **Steady state power losses can be quite significant in both pneumatic and hydraulic systems**
- **Good system design and PM are critical for energy efficiency.**

# Pneumatic systems

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- **The single biggest cost in a pneumatic system is the cost to compress the air.**
- **The compressors need only deliver enough air pressure to perform the tasks needed.**
- **System leaks are frequently the biggest single cause of energy loss.**
- **Filters elements need to be changed periodically to reduce pressure loss.**
- **Line losses need to be minimized.**
- **Dual pressure systems for end effectors can significantly reduce energy consumption.**

# What is needed to promote and promulgate useful standards?

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- **The biggest key to developing and maintaining good standards is commitment.**
- **Personal commitment**
- **Developing standards takes time. Gaining consensus is often difficult and time consuming.**
- **In person meetings are the best way to gain consensus, gaining consensus via video meetings is difficult.**
- **International travel and lodging is expensive – company commitment is needed to sponsor participant.**

# Questions

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Thank you for your time and attention

Gary Baumgardner  
Principle Engineer, Retired,  
Parker Hannifin Corporation  
Pneumatic Division, North America  
Chair ISO TC 131