



ICA2018

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O.146 - AMBIENT AIR SAMPLING AND ANALYSIS OF AIRBORNE POLLEN GRAINS AND FUNGAL SPORES FOR NETWORKS RELATED TO ALLERGY VOLUMETRIC HIRST METHOD

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General context



- Biological particles → Health impact (more than 3 Million people in France suffer of allergic rhinitis due to pollen)
- Pollens recognized as « atmospheric pollutant » (i.e. French Environmental Code, § L220-2)
- Increasing number of national aeroallergen networks
- IAA (International Association for Aerobiology) and EAS (European Aerobiology Society) cover issues on:
 - Sampling
 - Analysis
 - Quality control
 - Dissemination of information

⇒ need for a higher quality level of analysis and for a standardization of procedures



General context : Historic



- **UNI 11108:2004** «Air quality; Method for sampling and counting airborne pollen grains and fungal spores». Italy
- **VDI 4252 Part 4** «Bioaerosols and biological agents; Investigation of airborne allergy relevant pollen and mould spores using a volumetric method». Germany
- **Spanish Aerobiology Network (REA): Management and Quality Manual**
Carmen Galán Soldevilla, Paloma Cariñanos
González, Purificación Alcázar Teno, Eugenio Domínguez
Vilches , © SERVICIO DE PUBLICACIONES DE LA UNIVERSIDAD
DE CÓRDOBA, 2007

Structure of CEN (comette, working group)



- **Technical Committee (TC)**

- Body who manages the preparation of CEN deliverables

CEN/TC 264 – Air quality

- **Working Group (WG)**

- Group, established by a Technical Committee that undertakes a specific task, usually resulting in the provision of a draft Standard, Technical Specification or Technical report

WG 39 "Sampling and analysis of airborne pollen grains and fungal spores"

Process



CEN/TS 16868 has been published

CEN/TS 16868 - Ambient air - Sampling and analysis of airborne pollen grains and fungal spores for allergy networks - Volumetric Hirst method

The work on CEN/TS 16868 has been carried out by WG 39 over 2012-2015.

Finalisation of the CEN/TS Draft on May 2015

Approval by CEN/TC 264 on September 2015

The CEN National Members were granted a three-month term for consultation at national level.

Publication on December 2015



From CEN/TS to EN 16868

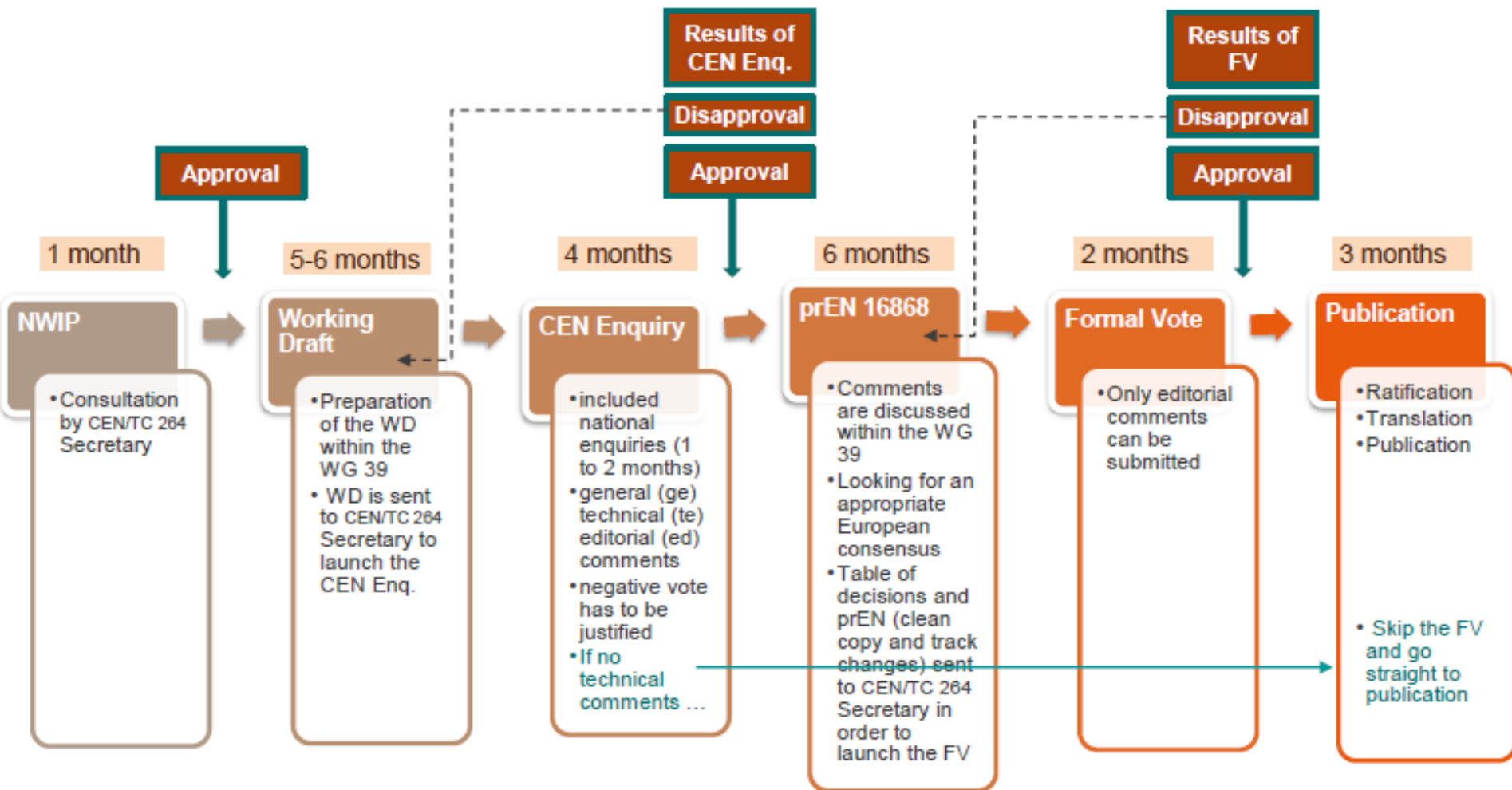
The main reasons of the conversion

... of the Technical Specification to an EN :

- A needed standardized method for a future European legislation: adding biological particles to chemical particles for the airborne monitoring ;
- The TS is a first step ;
- Complementary information is requested :
 - On the synergy between pollen and fungal spores' exposition and air pollution in order to decrease the risk of Health impact;
 - On thresholds of pollen exposure in order to involve patients in clinical trials;
- Homogenization of European practices: this standard will support the quality improvement of the sampling and the analysis methods in Europe ;

=> CEN/TC 264/WG 39 agreed for the conversion of the TS to an EN

Process of the conversion (1)



PROCESS

From CEN/TS 16868

To EN 16868

Recommendations taken by CEN/TC 264/WG 39 **22 & 23 February 2018 (Universidad de León, Spain)**

Recommendation 1

CEN/TC 264/WG 39 unanimously agrees on the modifications made on the prEN 16868 working document during the meeting.

The document **prEN 16868** is considered as the **FINAL** version based on the modifications acted during the meeting.

Recommendation 2

CEN/TC 264/WG 39 recommends that this final version is ready to be sent to CEN/CCMC for FORMAL VOTE. AFNOR is asked to format the document before sending it to CCMC.

Recommendation 3

As secretary of CEN TC 264 WG 39, C. LHUILLERY will inform the **WG 39 when the Formal vote will be launched.**

Recommendation 4

CEN/TC 264/WG 39 considers that it is not necessary to meet again on the actual project.

Moreover, no other project is planned for the future.

Therefore, **CEN TC 264 WG 39 recommends maintaining the working group as dormant** within CEN TC 264. If necessary, WG 39 will be reactivated.

Recommendation 5

CEN/TC 264/WG 39 especially thanks Délia FERNANDEZ for welcoming the working group in León and in the Universidad of León. Very grateful for the good meeting facilities, the excellent lunch and dinner.

Recommendation 6

M. THIBAUDON and C. LHUILLERY as convenor and secretary of CEN TC 264 WG 39 are very grateful to all the experts for their fruitful cooperation and participation during all these years.

Picture in Leon with the WG39 – 22 February 2018

CEN/TC 264

Date: 2018-07

FprEN 16868:2018

CEN/TC 264

Secretariat: DIN

Ambient air — Sampling and analysis of airborne pollen grains and fungal spores for networks related to allergy — Volumetric Hirst method

Air ambient — Échantillonnage et analyse des grains de pollen et des spores fongiques aériens pour les réseaux relatifs à l'allergie — Méthode volumétrique de Hirst

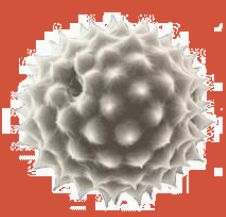
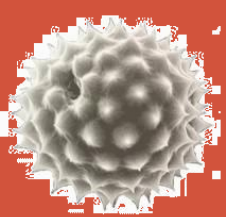
ICS:

Descriptors:



Document type: European Standard
Document subtype:
Document stage: Formal Vote
Document language: E

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Thank you for your attention !

