



CORESTA

CEG Tobacco online meeting

March 21st 2023



- ❖ **Introduction to CORESTA**
- ❖ **Key Activities in the Study Groups**
- ❖ **Subgroups and committee dealing with agrochemicals matters**
- ❖ **The Strengths of CORESTA**



STATUTES &
RULES ARE
PUBLICLY
AVAILABLE

CORESTA

Cooperation Centre for Scientific Research Relative to Tobacco

**A non-profit association created in 1956
governed by French law**

Purpose*

**To promote and facilitate international cooperation
in scientific research relative to tobacco
and its derived products**

*Legally binding

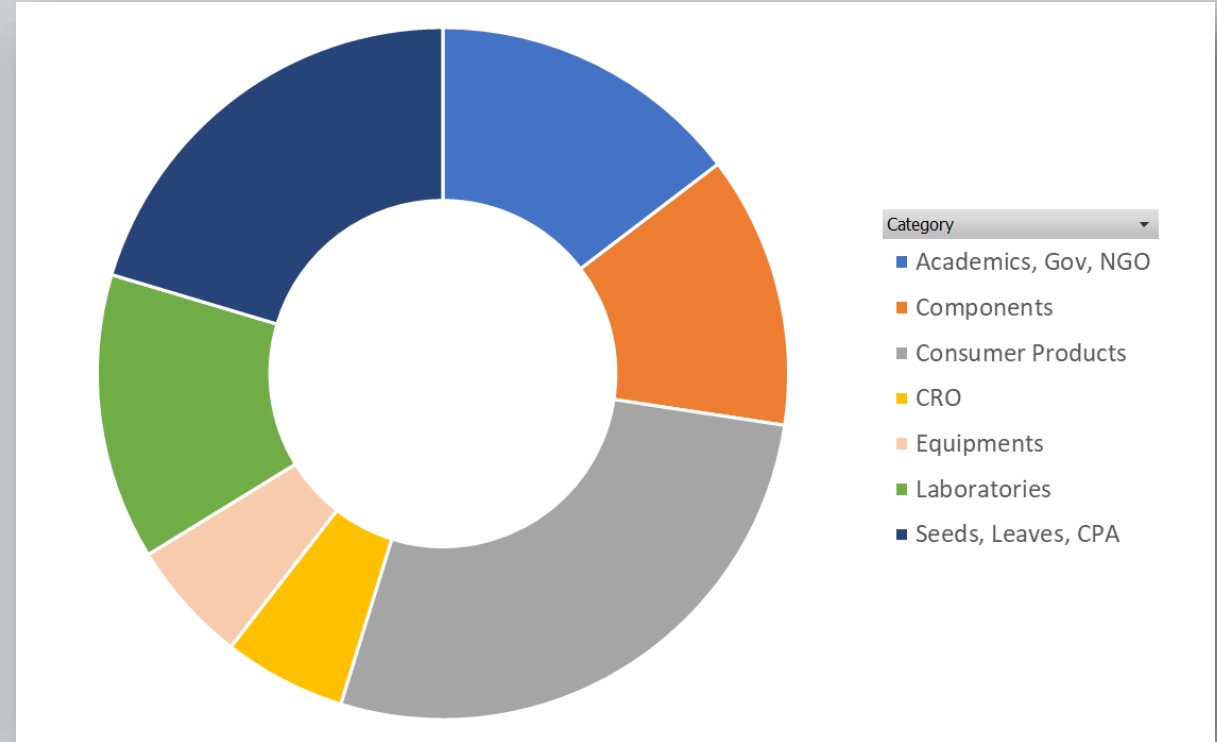
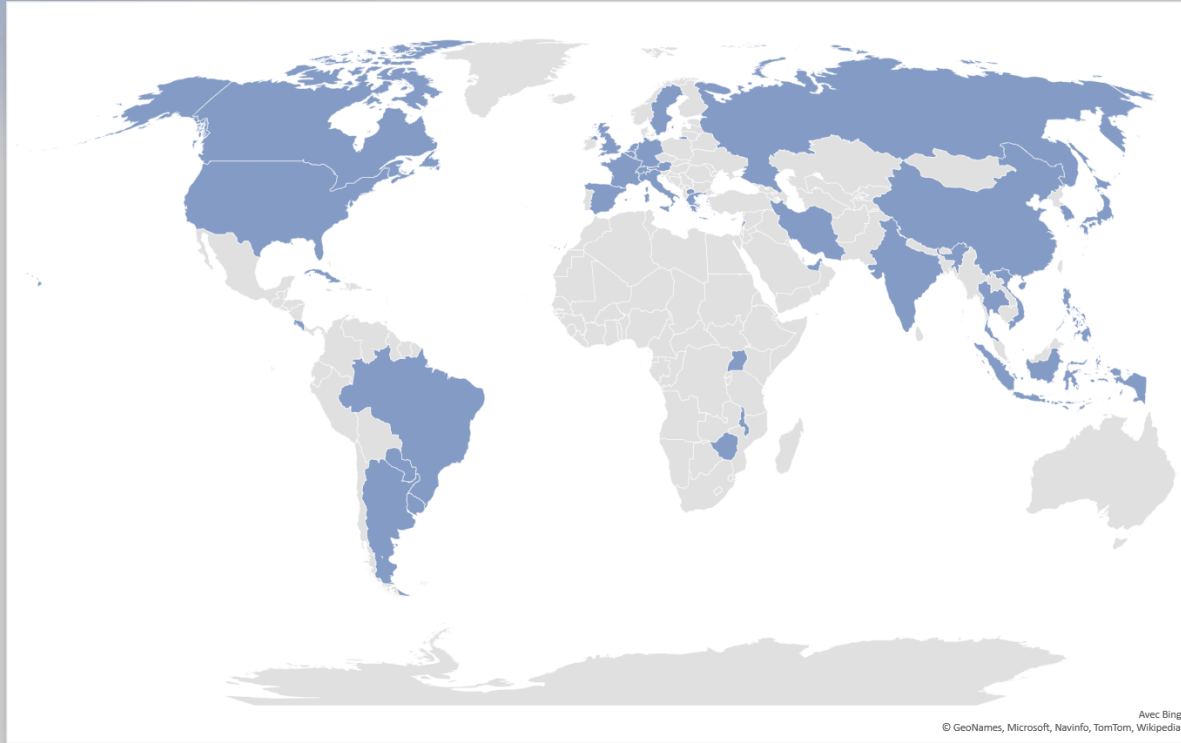


The Vision

“ To be recognised by our members and relevant external bodies as an authoritative source of publicly available credible science and best practices related to tobacco and its derived products ”



Membership

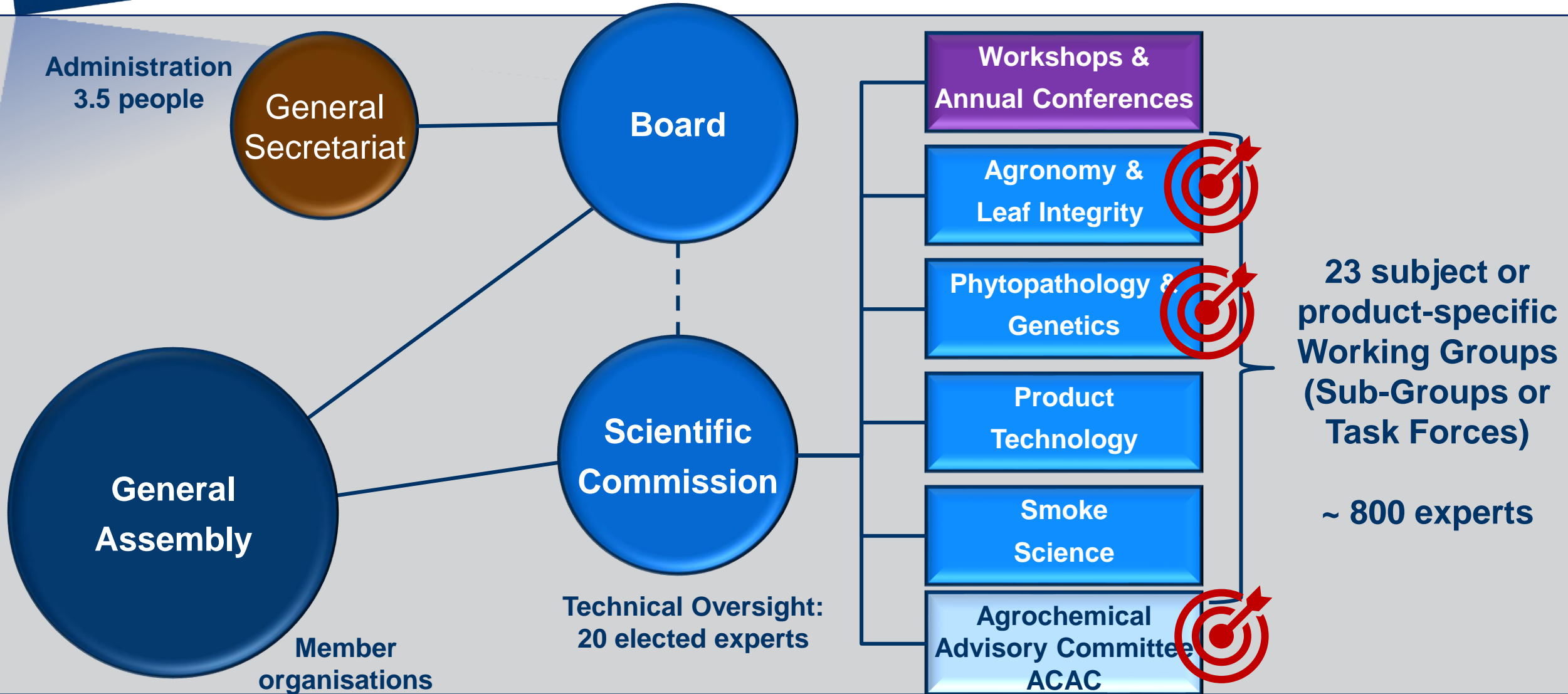


800 experts from 162 organisations and 42 countries* involved in 25 working groups through a streamlined process of cooperation.



Strategy and Policy:
14 elected/co-opted
organisations

Governance & Structure







Spectrum of Scientific Cooperation Topics

- Integrated Pest Management 
- Extended Diagnostic Expert System 
- Efficacy of Biological & Eco-Friendly Crop Protection Agents 
- Collaborative Study Black Shank
- Nicotiana Germplasm Collection

- Physical Test Methods
- Cigar Smoking Methods
- Tobacco and Tobacco Products Analysis
- E-Vapour
- Heated Tobacco Products

- Agrochemicals Analysis 
- Pest and Sanitation Management in Stored Tobacco
- Proficiency Testing for Detection of Transgenic Tobacco
- TSNA in Air-cured and Fire-cured Tobacco
- Agrochemical Residue Field Trials 
- Collaborative Study of Low Nicotine Tobacco Agronomic Production Practices
- Green Tobacco Sickness

23
Current Working Groups

Agronomy & Leaf Integrity
Phytopathology & Genetics
Product Technology
Science
Smoke

- Product Use Behaviour
- *In Vitro* Toxicity Testing
- Biomarkers
- Smoke Analysis
- Consumer Reported Outcome Measures Consortium
- 21st Century Toxicology for Next Generation Tobacco and Nicotine Products



A Streamlined Process of Cooperation

CORESTA
Members

PROPOSE

Working
Groups

DEVELOP

Scientific
Commission

REVIEW
PROPOSAL

REVIEW
OUTPUTS

Board

General
Secretariat

REGISTER

PUBLISH



Publications

Abstracts & Presentations

~ 9000 abstracts/Presentations

www.coresta.org

Technical Reports

Smoke Analytes Sub-Group
Technical Report
2012 Collaborative Study on B[a]P, VOCs, and Carbonyls in Mainstream Cigarette Smoke

Cooperation Centre for Scientific Research Relative to Tobacco
Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac

Documents
Presentation

A non-destructive rapid method for blend grade verification using visible-near infrared hyperspectral imaging, advanced data processing and classification algorithms

SARHU A.(1); DANTE H.(2); MORRIS J.W.(1); WAREK U.(1)
(1) Altria Client Services LLC., Biotechnology, Richmond, VA, U.S.A.; (2) Industrial Turnaround Corporation, Chester, VA, U.S.A.

Authors
SARHU A. DANTE H. MORRIS J.W. WAREK U.

Organisations
Altria Client Services Industrial Turnaround Corporation

Cooperation Centre for Scientific Research Relative to Tobacco
Agro-Chemical Advisory Committee
CORESTA Guide N° 19
Responsible Use of Crop Protection Agents (CPAs) in Tobacco Leaf Production

April 2017

Author: H.D. Papadimitrakis, A. L...

Guides

Cooperation Centre for Scientific Research Relative to Tobacco
Tobacco and Tobacco Products Analytes Sub-Group
CORESTA Recommended Method No. 91
DETERMINATION OF 15 PAHs IN TOBACCO AND TOBACCO PRODUCTS BY GC-MS/MS or GC-MS

April 2019

Methods

Cooperation Centre for Scientific Research Relative to Tobacco
Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac

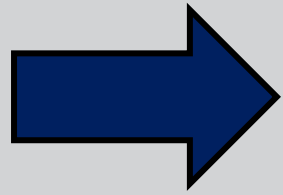
ABOUT US - STUDY GROUPS - DOCUMENTS - ABSTRACTS - MEETINGS - INFORMATION - MEMBER CONTENT

Join the new Task Force
Low Nicotine Tobacco
Agronomic Production Practices

News
CORESTA Residue Field Trials Sub-Group Poster Presentations at University of Kentucky Burley Tour, August 2019 published [RFT-235-CXP] 17/09/2019

Latest Documents
Guides
No. 26 - Technical Guide for Designing E-Vapour Product Stability Studies 05/09/2019

Upcoming Meetings
5 October 2019
SG SMA - Smoke Analytes Hamburg, Germany
5 October 2019



www.coresta.org



Subgroups and committee dealing with agrochemicals matters



Integrated Pest Management

❖ Objectives

- To summarise available IPM strategies relevant for each tobacco pest and disease
- To produce a document for agronomists & farmers, structured by disease / pest, and providing a common outline framework based on relevant IPM methods → This document to be included on the CORESTA website

❖ Achievements in 2021

➤ 80 chapters over 5 groups:

- Diseases
- Nematodes
- Insects
- Weeds
- IPM strategies

<https://www.coresta.org/groups/integrated-pest-management>

➤ Each with a group leader:

- organizes group
- collects chapters
- arranges reviews

The subgroup needs:

- Leader for the IPM Strategies Group
- Authors for:
 - Target spot / Rhizoctonia leaf spot
 - Management of seedbed diseases

If you are interested, please contact the subgroup coordinator Anne Fisher
anne.fisher@uky.edu

Next meeting in April 2023

<https://www.coresta.org/meetings/upcoming>



Extended Diagnostic Expert System

❖ Objectives

- To collect international data on plant diseases, such as pictures, descriptions, diagnostic, available treatments, etc.
- To format this information for uploads on the e-phytia/tobacco website and related portable applications

❖ Achievements in 2022

- 2013 Translation from French to English of e-Phytia Tabac website, and creation of Di@gnoplant tobacco application
- 2019 Translation from English to Portuguese of e-Phytia Tobacco website
- 2022 Integration of the Portuguese version on the e-Phytia Tabac website

<https://www.coresta.org/groups/extended-diagnostic-expert-system>



❖ Objectives

- To perform regular proficiency testing of Multi-Residue Methods for the analysis of agrochemical residues on tobacco
- To undertake joint experiments to resolve unanswered questions arising from proficiency tests; to expand knowledge base on agrochemical residues and their analysis
- To produce and maintain a series of Technical Notes (on different agrochemical residue classes and selected individual compounds) to supplement the Technical Guideline and aid method development and improvement

❖ Main achievements since 1972

- The laboratory performance assessment has allowed the tobacco industry to identify the best internal and commercial laboratories worldwide to assure reliable and timely results, able to cover an extremely large testing scope, including all CPAs listed in the CORESTA Guide No. 1 Guidance Residue Levels (GRLs) and other CPAs which are part of a company's internal standards and regulatory compliance requirements.



Efficacy of Biological & Eco-Friendly Crop Protection Agents

❖ Objectives

- **To test and collect existing data for promising biological and eco-friendly control agents, compared with current control practices, in order to identify and propose suitable alternatives to conventional CPAs:**
 - To test biological and eco-friendly CPAs as alternatives to traditional CPAs with CORESTA formal protocol and collate related results
 - To collate results and protocols from trials already conducted with biological and eco-friendly CPAs
 - To collate results and protocols from trials that will not be done with the formal protocol
 - Compile data in a dedicated database and make them available to ACAC
 - To harness global participation

<https://www.coresta.org/groups/efficacy-biological-and-eco-friendly-cpas>

The subgroup needs new members:

- Any persons from entities member of CORESTA that make trials and are willing to share results

**If you are interested, please contact the subgroup coordinator Rhoda Mavuka:
rmavuka@kutsaga.co.zw**

**Next meeting in April 2023
<https://www.coresta.org/meetings/upcoming>**

**If you are interested and not yet CORESTA member you will find all relevant information by clicking on the link:
<https://www.coresta.org/membership>**



Agrochemical Residue Field Trials

❖ Objectives

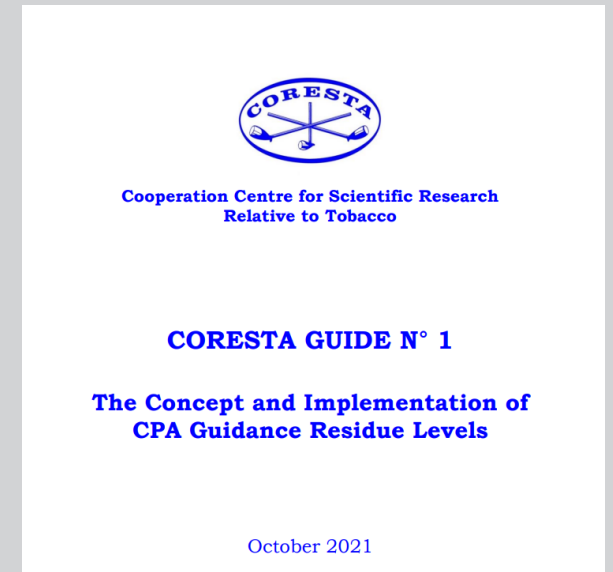
- In consultation with ACAC, to prepare and maintain a list of agrochemicals necessary to sustain successful leaf production and for which GRLs have to be set or reviewed.
- To produce a formal protocol for trial and testing procedures.
- To promote participation in this programme globally.
- To collate results of trials done under the formal protocol and make them available to ACAC.
- To collect already available field residue trial data from various sources and make them available to ACAC.



Agrochemical Residue Field Trials

❖ Achievements since 2013:

- **1st generation candidates → 23 CPAs for which GRLs should be defined**
 - **From 2013 to 2015:**
 - ◆ 270+ field trials
 - ◆ 25 executors
 - ◆ 17 countries
 - ◆ 13 CPAs
 - **Additional trial results were accumulated from 2016 to 2018:**
 - ◆ In total, 426 field trials as of October 2019 !!
 - **The results for 10 CPAs; were submitted to ACAC in order to discuss new GRLs**
- **2nd generation candidates:**
 - **Trials for 2nd generation candidates were launched in 2018**
 - **The results will be compiled and submitted to ACAC in 2023**





ACAC - Agro-Chemical Advisory Committee

❖ Objectives

- To address matters relating to agrochemicals* and topics associated with product stewardship and integrity in tobacco by gathering relevant information and disseminating guidance to stakeholders.

**Agrochemicals are those substances used in farming to manage pests or to regulate plant growth. They are also referred to as crop protection agents (CPAs) and plant protection products (PPPs), including biopesticides*

ACAC is appointed by the Scientific Commission for the purpose of supporting stakeholders with regard to agrochemical topics

The notable achievement of ACAC is being widely recognized as the reference body for both global and local agrochemical requirements for tobacco. ACAC continually looks towards the future and will proactively address challenges that may impact its members and its key stakeholders



ACAC - Agro-Chemical Advisory Committee

❖ Achievements

- **It has established and continually evaluates and expands a list of Guidance Residue Levels (GRLs) that assists in the evaluation of crop protection agent residue results and emphasizes the importance of Good Agricultural Practices**
 - **No. 1 - Agrochemical Guidance Residue Levels (GRLs)**

- **ACAC is charged with the responsibility of informing stakeholders through guidance documents on best management practices related to agrochemicals, such as the adoption of integrated pest management and the use of biopesticides:**
 - **No. 3 - Good Agricultural Practices (GAP) Guidelines**
 - **No. 19 - Responsible Use of Crop Protection Agents (CPAs) in Tobacco Leaf Production**
 - **No. 21 - Best Practices and Crop Protection in Cigar Dark Air-Cured Tobacco**
 - **No. 27 - Identification and Elimination of Highly Hazardous Pesticides (HHPs) in Leaf Tobacco Production**
 - **No. xx - Technical Aspects of CPA Usage (underway)**



The Strengths of CORESTA



The Strengths of CORESTA

❖ **Transparent and inclusive ways of working**

- **global inter-disciplinary participation**
- **non-member expertise welcomed**
- **annual meetings open to all interested parties**

❖ **Focus on sharing and advancing scientific knowledge**

❖ **Proficiency testing activity supporting laboratory accreditation**

❖ **Track record supporting development of International Standards**



Agro-Phyto Conference (AP2023)

Cancun, Mexico



CORESTA is very pleased to announce that the next
CORESTA Agronomy & Leaf Integrity and Phytopathology & Genetics Conference (AP2023)
will be held **in-person** from 15-19 October 2023, in Cancun, Mexico.

More information about the Conference will be available in due course.

<https://www.coresta.org/events/agro-phyto-conference-ap2023-37071.html>



Thank you