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Update from the working groups

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RENEWABLE ENERGY GROUP

Two working groups (more to follow...)

➤UCOME

- with work applicable to other wastes like tallow or waste fatty acids

➤POME

- and palm-derived wastes & residues in general

some slow down because of covid-19,
but catching up happening as we speak

Closer cooperation between industry & ISCC

Example: EWABA standard of transparency



EWABA Standard

1. Auditors shall be entitled to contact customers & suppliers to verify deliveries and documents
2. Report Quarterly MB into an industry database
3. Aim to use best available technology for traceability – digital docs, barcodes, GPS
4. Mutual acceptance of suspensions across Voluntary Schemes
5. Auditors trained on physical characteristics of unmixed oils and biofuels
6. Checks on "live consignments" to verify product identity
7. Physical identity tests when reliable and available
8. Classify risk factors
9. 2-3yrs maximum consecutive audits to limit commercial bias
10. ISCC self-declaration should contain waste volume and tel.nr
11. Threshold for PoO mandatory on site audit reduced (>10mt/month)

ISCC



1. Verification of the existence of Points of Origin
2. Mass balance & List of Points of Origin sent prior to the audit
3. PoO Self-declarations to include typical production & a contact telephone number
4. Submit individual GHG calculations to ISCC
5. Extra surveillance audits for higher risk supply chains +3 months, +6 months after initial certification
6. If a company has multiple storage sites, all Mass Balances must be audited



Novel UCO testing method

- +3 year work with Portuguese University
- EWABA technical working group assessed results

- The Method:
 - Identifies specific elements in molecular composition
 - **UCO** → contains particular component which originates when proteins are fried irrespective of original oil
 - **Virgin vegetable oils** → contains a particular component which disappears when proteins are fried
 - Not triggered by heating oils = no cheating possible

...and more testing

Implementation of sector-broad fast photonic decision support systems for authentication of oils/fats



Dutch Oils & Fats Association (MVO)



Stakeholders are welcome to join this research project
Contact Frank Bergmans at MVO: bergmans@mvo.nl



Current state-of-the-art (i) – sensor and data fusion



Flame NIR
926 – 1650 nm

Flame UV-VIS
187 – 1029 nm

Applications in testing phase
(finish end 2020)

➤ cPO

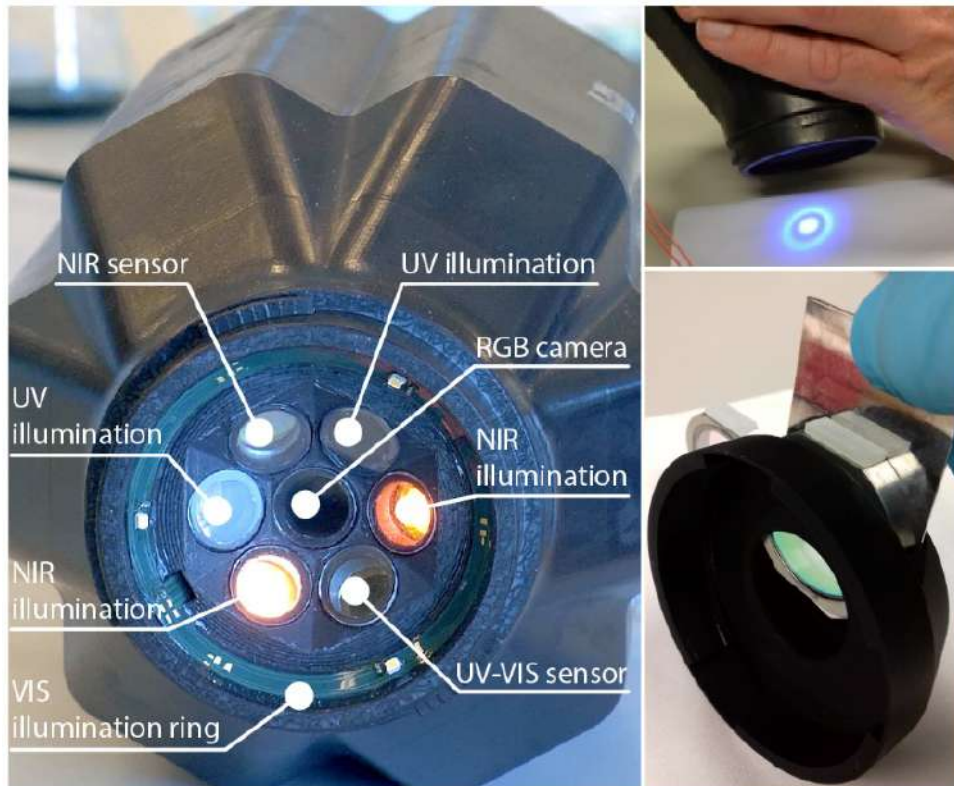
➤ SFO

➤ RSO

➤ SBO

Untargeted and targeted screening
DB only suitable for Ocean scanners

Current state-of-the-art (ii) – Concept scanner



- Fusion of VIS, FLUO, NIR
 - EVOO
 - RVOO
 - OPOs
 - Mixtures
- Untargeted screening

Detecting food fraud in extra virgin olive oil using a prototype portable hyphenated photonics sensor <https://doi.org/10.1093/jaoacint/qsaa099>
www.phasmafood.eu

Working group: palm-derived wastes & residues

October Asian Technical Committee meeting

- DRAFT
- Interim Report
- Confidential
-
-
- Proposal for new guidelines for
- POME certification with ISCC
-
- **Presented by**

- **Dr Sive Sivandran**
- **PT. Indo Energy Solutions**
- **Indonesia**

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POME is only the beginning!



What's next?

- EU-wide database
- System hopping stopped – naming & shaming continues
- ISCC & industry continuous co-operation with supervisory authorities: numerous vessels arrested to check irregularities
- EU Commission to impose improvements on all schemes

- Covid-19 slowed us down...
- We now need to share experience of implemented measures
- Get more auditors to participate
- ...

Thank you!

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