

SPISE Working Group (SWG)

SPISE 8

8th European Workshop on Standardised Procedure for the Inspection of Sprayers in Europe



<http://spise.julius-kuehn.de>

A three-day workshop at the

**World Horti Center
Europa 1, 2672 ZX Naaldwijk
The Netherlands
May 2-4, 2023**

8th European Workshop on Standardised Procedure for the Inspection of Sprayers in Europe -SPISE 8- the Netherlands, May 2023

Welcome

The SPISE 8-Workshop offers the possibility of getting to know the provisions on inspection of plant protection equipment stated by Article 8 of EU Directive 2009/128/EC, which are binding for all Member States, to interpret these correctly and to discuss each one of them. In addition, the Workshop gives the participants the chance to initiate further specifications which the Member States must develop and harmonise by themselves (subsidiarity) and to put them into operation.

Participation of experts on inspection on sprayers in use from all the Member States and further European countries, representatives from official bodies, either national or European, customers or farmers, give the attendants a complete overview about the situation and perspectives of the mandatory procedure for inspection of sprayers in use in Europe.

The focus of 8th edition of SPISE workshop is on three main aspects:

- **Inspection of electronic devices present on PAE**
- **Inspection of minor PAE**
- **Workshop quality control**

Furthermore it will be an interesting opportunity to evaluate the present situation on every MS and to understand the difficulties encountered and the necessary actions needed to solve them. Also this time will allow to participants to evaluate and discuss about the major figures after the mandatory inspection process in all the EU members, evaluating and discussing the major differences.

Lectures, practical activities and visits will be organised and distributed during the two and a half days. Further aspects as the necessity of new standards, PAE inspection harmonised test methods for PAE not included in ISO EN 16122 series, SPISE advice on sprayers' calibration and/or adjustment at the workshop, and other relevant aspects will be discussed.

The participants are called upon to contribute their experience and ideas through lectures and posters so that we can all learn from one another, thus contributing to a harmonised high-quality technical inspection of sprayers in Europe. Proceedings of the Workshop will be printed thanks a joint collaboration of JKI.

World Horti Center, Naaldwijk, the Netherlands

The 8th SPISE Workshop will be organized in the Netherlands in the World Horti Center. World Horti Center is the knowledge and innovation centre for international greenhouse horticulture. A leading platform where business, education, research, and government jointly innovate, connect, inspire and share knowledge.

Every year, World Horti Center is visited by 25,000 international professionals, who are looking for connection, knowledge and innovations in horticulture. We connect parties who want to contribute to sustainable food supply and greening the world. Leading horticultural companies and innovations are represented at our year-round trade fair. Here is a complete reflection of technology, supply, floriculture and food horticulture.

In order to continue to innovate and maintain its lead as an international sector, World Horti Center has a state-of-the-art research centre with 38 greenhouse departments where researchers, entrepreneurs and various education institutions jointly conduct research. In addition, World Horti Center offers a learning environment for global talent and we work together with leading (green) universities.

World Horti Center is a unique collaboration between education, research, entrepreneurs and the government with an international focus. MBO Westland, Demokwekerij Westland, WHC Expo bv and Municipality of Westland together form World Horti Center.



Figure 1: World Horti Center

How to get to World Horti Center at Naaldwijk



The World Horti Center is situated near Naaldwijk between the cities of The Hague and Rotterdam in the heart of the 'Westland', the main horticultural area in the Netherlands.

- **Plane:**
Most airlines offer connection to Amsterdam Airport Schiphol. Another option is Rotterdam The Hague Airport.
- **By public transportation:**
Visit www.9292.nl for the fastest connection to World Horti Center.
- **Navigation:**
The address is Europa 1, 2672ZX in Naaldwijk. Because this is a relatively new landscaped area, our address is not known in every navigation system. In this case you can navigate to Zandheullaan 1 in Honselersdijk. The best way to navigate to World Horti Center is via Google Maps.
- **Parking at World Horti Center:**
World Horti Center has two parking lots. There are 80 spots at the front of the building (left side). Eight of which are specially provided with an EV charging station, suitable for charging every type of electrical car. Visitors can simply use these charging stations without reservation.
There are 220 parking spaces on the side and rear of the building. Buses can be parked on the dead end road in front of the building.

Accommodation

Hotels Den Haag:

Several hotels are available close to the city centre of den Haag. A bus is arranged from the city centre to the venue.

- Mercure Hotel Den Haag Central, Spui 180, Den Haag Centrum, 2511 BW Den Haag
- Holiday Inn Express The Hague - Parliament, Lange Houtstraat 5, Den Haag Centrum, 2511 CV Den Haag
- Moxy The Hague, Wijnhaven 6, Den Haag Centrum, 2511 GA Den Haag
- Dutch Golden Hotel, Fluwelen Burgwal 56, 2511 CJ Den Haag

Hotels Naaldwijk:

Close to the venue there is only one hotel. For people coming by car this could be an option.

- Inn Naaldwyk, Wilhelminaplein 2, 2671 GR Naaldwijk

The venue

The three-day workshop will be held at World Horti Center, Europa 1, 2672 ZX Naaldwijk The Netherlands. Practical demonstrations related to PAE used in horticulture will be organized in WHC. Practical demonstrations related to PAE used in field-crops and orchards will be organized at a SKL workshop located south in the country at the company P. Kriesels Landbouwtechniek B.V. in Wouw.



Figure 2: World Horti Center in Naaldwijk



Figure 3: company P. Kriesels Landbouwtechniek B.V. in Wouw.

More information is available at: <https://spise.julius-kuehn.de/>

Call for papers

Experts are called to send in their proposals for platform presentations or posters (abstracts with max 300 words can be submitted by the SPISE Website). All the extant ideas or solutions that have been developed in the Member States concerning the following items will be taken into consideration:

- **Session 1: Present experiences and challenges in inspections activities**
- **Session 2: National PAE Register**
- **Session 3: PAE inspection harmonised test methods for PAE not included in ISO EN 16122**
- **Session 4: Inspection of new technologies (electronic devices, Crop Drone)**
- **Session 5: Inspection quality: “Certification” of the Workshop activity (quality assurance) included the certification**

Other subjects out of the previous list will be considered by the Scientific Committee.

Please submit proposals for papers via the SPISE website before the deadline **15/02/2023**.

For each session, 4 – 6 platform presentations (10 min talk, 5 min discussion) will be selected from applications by the Scientific Committee. Papers not selected for platform presentation will be requested to be presented as posters during a special poster session.

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Proceedings:

Since the first edition of SPISE in 2004, a much appreciated and well recognized Book of Proceedings have been edited and published by JKI Institute. The five produced books after every one of the previous workshops have been used and cited for a large number of researchers, authorities and stakeholders in general. For those reasons, it is the purpose of the Organising Committee to maintain the high quality level of the publication and, as successfully conducted on the occasion of the SPISE 7 workshop in Athens, try to finish the publication process before the Workshop. This fact will allow distributing among all the attendants the final communications and materials to be presented and discussed. For that reason the deadline to submit the full paper will be **13/03/2022**. Detailed information about the procedure and template for the full document can be downloaded from:

<https://spise.julius-kuehn.de/>

Deadline:

13/03/2023 Submission of complete paper

Draft Programme

Tuesday, 02/05/2023

9:00 – 11:00

Welcome and keynote speeches

11:00 – 11:30 Coffee break

11:30 – 13:00 Workshop program lecture

Session 1: Present experiences and challenges in inspections activities

Chairmen: Emilio Gil, Nils Bjugstad

- 11:30 – 11:50

Development of a training course on sprayer calibration and settings based on the sprayer inspection database in France. (N. Bouchekoum, J.-P. Douzals; S. Grimbuhler)

- 11:50 – 12:10

Experiences and challenges in the inspection of greenhouse and ornamental sprayers in Belgium (Flanders) (J. Declercq, D. Nuyttens)

- 12:10 – 12:30

BTSF training course on Pesticide Application Equipment: Eight years of education on inspection benefits around Europe. (E. Gil; P. Balsari, A. Herbst, J. Kole; J.-P. Douzals)

13:00 – 14:00 Lunch

14:00 – 18:00 Tour + Practical workshops inspection greenhouse sprayers (45 min each part, incl. coffee-break)

- Group 1: guided tour through facilities Horti World Center
- Group 2: practical workshop in WHC inspection of greenhouse sprayers (together with Brinkman) + discussion in group
- Group 3: practical workshop in WHC inspection robot sprayer (together with Berg Hortimotive) + discussion in group
- Group 4: practical workshop in WHC inspection of horizontal spray boom with Dosatron (together with Visser/Robur/Lukassen) + discussion in group

Wednesday, 03/05/2023 (LMB P. Kriesels in Wouw)

8:00 – 9:00 Transfer by bus from WHC Naaldwijk to Kriesels in Wouw

9:00 – 9:30 Welcome with coffee at Kriesels

9:30 – 13:00 Practical workshops in groups (incl. coffee-break), 45 minutes each part

- Group 1: Inspection of field-crop sprayers (together with Kriesels/Agrifac) + discussion in group.
- Group 2: Inspection of potato planter incl. band sprayer/granulator (one unit) (together with Kriesels / Baselier) + discussion in group.
- Group 3: Inspection band-sprayers (2 separate units) (together with Steketee/Lemken) + discussion in group.
- Group 4: Inspection of orchard-sprayers (together with Kriesels/Munckhof) + discussion in group.

13:00 – 14:00 Lunch

14:00 – 17:00 Workshop program lecture

Session 2: National PAE Register

Chairmen: Francesc Solanelles, NN

- 14:00 – 14:20

Belgian national PAE register (J. Declercq; D. Nuyttens; O. Mostade; G. Defays)

- 14:20 – 14:40

Spanish register of application equipment in professional use (F. Solanelles; N. Montagut)

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Session 3: PAE inspection harmonised test methods for PAE not included in

ISO EN 16122

Chairmen: Greg Doruchowski, E. Nilsson

- 14:40 – 15:00

In-farm self-inspection and calibration of sprayers – SPISE ADVICE quick guides and manuals (G. Doruchowski; P. Balsari; M. Roettele; E. Nilsson)

- 15:00 – 15:20

Proposal of a methodology for the functional inspection of a Fixed Spray Delivery System (FSDS) (E. Mozzanini; P. Balsari; M. Grella; P. Marucco; F. Gioelli)

- 15:20 – 16:00

Testing of Boom Sprayer <3m (F. Quigley)

- 16:00 – 16:20

Possible testing procedures for spot sprayers (Th. Anken; A. Latsch)

17:00 – 18:00 Bus transfer to Rotterdam

18:00 – 22:00 Boat tour through port of Rotterdam incl. dinner

22:00 Bus transfer back to Naaldwijk

Thursday, 04/05/2023

(WHC at Naaldwijk)

9:00 – 10:30 Workshop program lectures

Session 4: Inspection of new technologies (electronic devices, Crop Drone)

Chairmen: NN, NN

- 9:00 – 9:20

Electronic controls and assistance systems – challenges for sprayer inspection (A. Herbst)

- 9:20 – 9:40

New spraying technologies and their impact on control of sprayers in use (J.K. Wegener)

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Session 5: Inspection quality: “Certification” of the Workshop activity (quality assurance) included the certification

Chairmen: NN, NN

- 9:40 – 10:00

NSTS training, qualification and auditing of machine Examiners (I. Forman)

10:30 – 11:00

Coffee break

11:00 – 12:00

Closing Session

12:00 – 13:00

Lunch and Departure

During the whole workshop:

- **Posters**
- **Exhibition of inspection facilities**

1. General information

Registration:

The online registration via the SPISE website

<http://spise.julius-kuehn.de>

is available now.

Workshop fees:

The Workshop fee amounts to 380 Euro.

The fee includes costs of registration, proceedings, excursion, transport from and to the hotels, coffee, soft drinks, lunches, buffet dinner and workshop social dinner. A charge of € 50 will be made on any cancellations. No refunds will be given after 31/03/2023.

Payment:

Stichting Kwaliteitseisen Landbouwtechniek
Agro Businesspark 24
6708PW Wageningen
The Netherlands

Bank account:

IBAN: NL08 RABO 01333 11 570

Bank:

Rabobank

Croeselaan 18

3521 CB Utrecht

BIC: RABONL2U (or RABONL2UXXX if 11 digits are needed)

Please remember to indicate on the heading/subject of the bank transfer: "SPISE2022_Name of the attendant".

Registration will only be confirmed once payment has been checked. Please send to spise@julius-kuehn.de the proof of the payment.

Organizing Committee:

Balsari, P.	(I)	paolo.balsari@unito.it
Defays, G.	(B)	g.defays@cra.wallonie.be
Douzals, J.-P.	(F)	jean-paul.douzals@cemagref.fr
Kole, J.	(NL)	j.kole@sklkeuring.nl
Wegener, J. K.	(D)	jens-karl.wegener@julius-kuehn.de
Wehmann, H.	(D)	hans-joachim.wehmann@julius-kuehn.de

Scientific Committee:

Chairman: Balsari, P. (I)

Members:

Bjugstad, N. (N)	Douzals, J.-P. (F)
Doruchowski, G. (PL)	Gil, E. (SP)
Harašta, P. (CZ)	Herbst, A. (D)
Kole, J. (NL)	Kramer, H. (D)
Langenakens, J. (B)	Marucco, P. (I)
Nilsson, E. (S)	Pelt, P. (LU)
Ronkainen, A. (F)	Schulze-Stentrop, C. (D)
Solanelles, F. (SP)	Wegener, J. K. (D)

Secretary:

spise@julius-kuehn.de