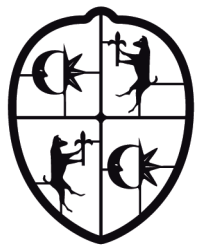


# ASSOCIATION OF APPLIED BIOLOGISTS

*President: Professor Stuart Knight*



FONDAZIONE  
EDMUND  
MACH



**ECOOPERA**  
SOLUZIONI PER L'AMBIENTE

**A two day workshop  
at the Haus der Familie, Oberbozen, Italy**

**on 2-3 October 2019**

**PROGRAMME & BOOKING FORM**

**Sprayer Cleaning  
Workshop**

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# Sprayer Cleaning Workshop

on 2-3 October 2019

at the Haus der Familie, Oberbozen, Italy

Sprayer cleaning (internal and external) is considered one of the most important elements of the potential pesticide point source contamination, and it is really necessary to find and disseminate ways to avoid or mitigate this risk. There are several different ways to address the present mitigation solutions proposed by researchers, regulatory bodies, sprayers manufacturers and private companies. This workshop aims to exchange experiences from different stakeholders in order to provide improvements on this topic, through the demonstration and dissemination of solutions to avoid or mitigate the contamination risk.

Accepted papers from the conference will be published as abstracts and will be available to delegates at the conference.

## PROGRAMME

(BASIS Points have been applied for)

### WEDNESDAY 2 OCTOBER 2019

08:30 CONFERENCE REGISTRATION

09:30 **WELCOME & PRESENTATION**

PAOLO BALSARI (University of Turin, Italy) & TOM ROBINSON (Tom Robinson Sprayers, UK)

#### *Session 1 : Water protection and sprayer cleaning*

Chairman : GREG DORUCHOWSKI (INHORT, Poland)

09:50 **The presence of pesticide in surface and ground water in Italy**

PIETRO PARIS (ISPRA, Italian Ministry of Environment)

10:20 **Sprayer Cleaning: Importance and phases**

PAOLO BALSARI (University of Turin, Italy)

11:00 COFFEE/TEA

11:30 **Sprayer cleaning and water protection: The TOPPS experience**

MANFRED ROETTELE (ECPA, Germany)

12:00 **The possible management of the contaminated water coming from sprayer cleaning**

ELLEN PAUWELYN (Inagro, Belgium)

12:30 LUNCH

#### *Session 2 : Rules and Standards*

Chairman : TOM ROBINSON (Tom Robinson Sprayers, UK)

13:30 **The new NAP for the sustainable use of pesticides and the management of sprayers for environmental protection**

MICHELANGELO LOMBARDO (Italian Ministry of Environment)

14:00 **The present Standards on sprayer cleaning and the improvements needed**  
ESKIL NILSSON (Visavi, Sweden)

**Session 3 : Case Studies and Experiences**

Chairman : PAOLO BALSARI (UNITO, Italy)

14:30 **Case Study on “At farm sprayer cleaning management”**  
HARALD KRAMER (LWK, Germany)

15:00 COFFEE/TEA

15:30 **Case Study on “Centralizing sprayer cleaning management”**  
DANIEL BONDESAN (Fondazione Mach, Italy)

16:00 **POSTERS**

**Effective tools for a sustainable management of sprayer filling and washing to prevent point pollution from PPP**

M KUNTZ, A WEISS (Südtiroler Bauernbund, Abteilung Innovation & Energie, Italy) & D BONDESAN (Fondazione E. Mach, Italy)

**A biofilter pilot plant for the purification of spray remnants**

GERD INNEREBNER (Versuchszentrum Laimburg, Germany)

**AgroBox: reverse osmose-powered technology for the purification of washingwaters**

MICHELE GUELLA (MeTe Membrane Technology, Guanzate, Italy), MARCO GALLI & LUCA VIETI (Corteva Agriscience, Cremona, Italy)

17:15 END OF SESSION

20:00 DINNER FOR THOSE STAYING AT HAUS DE FAMILIE

**THURSDAY 3 OCTOBER 2018**

**Session 4 : Other experiences**

Chairmen : DANIEL BONDESAN (Fondazione Mach, Italy) & HARALD KRAMER (LWK, Germany)

09:00 **New technology for sprayer cleaning**  
CHRISTOPH SCHULZE STENTROP (CEMA, Denmark)

09:30 **A farmer’s point of view**  
ANDREW MYATT (Stowell Park Estate, UK)

10:00 COFFEE/TEA

10:30 **DISCUSSION & FAQ**  
Chairman : ESKIL NILSSON (Visavi, Sweden)

11:30 **Prevention of water contamination from point sources with Plant Protection Products by improving extension specialists’ vocational competences**  
ARZU AYDAR (Plant Protection Central Research Institute (ZMMAE), OSMAN ARI (General Directorate of Food & Control (GKGM), MESUT GÖLBAŞI (International Agricultural Training Center (UTEM), ALI İHSAN ACAR (Faculty of Agriculture, Agriculture Machine & Technologies (AÜZF TMTM), SELAMI İLERI (Turkish Assn of Agriculture Machinery & Equipment Manufacturers

(TARMAKBÍR) Turkey), ANDRÁS SZÉKÁCS (National Agricultural Research & Innovation Centre (NAIK), Hungary), GREG DORUCHOWSKI (INHORT, Poland), & ROXANA CICEOI (University of Agronomic Sciences & Veterinary Medicine of Bucharest, Romania)

- 11:45 **Assessment of external sprayer cleaning efficiency from different devices and cleaning agents**  
M GRELLA, P MARUCCO, D ALLOCHIS & P BALSARI (UNITO, Italy)
- 12:00 **Practical aspects of the external cleaning of orchard sprayers**  
GREG DORUCHOWSKI (INHORT, Poland)
- 12:15 **Continuous cleaning system**  
JAN LANGENAKENS (AAMS-SALVARINI, Belgium)
- 12:30 LUNCH
- 13:30 **Establishing a continuous internal rinsing system for sprayers - practical experience from the last 10 years**  
LUKAS WACHTER JOACHIM HERFORT & FRANZ RENNER (Agrotop GMBH, Germany)
- 13:45 **Experience in the use of the present cleaning standards in the frame of the approval procedure of the JKI**  
JANS KARL WEGENER & HANS-JOACHIM WEHMANN (JKI Institute, Germany)
- 14:00 **Legislation of filling and cleaning greenhouse sprayers in Denmark**  
NIELS ENNGAARD KLAUSEN (HortAdvice, Denmark)
- 14:15 **On-farm systems to avoid point pollution**  
VICTORIA NELISSEN K KOOPMANS, K RUYSEN (Research Centre for Fruit (PCfruit), Belgium) & D BYLEMANS (Research Centre for Fruit (PCfruit) and KU Leuven, Belgium)
- 14:30 **RemDry™ : An easy to use system for the on-farm management of waste liquids containing PPP residues**  
M GRELLA, P MARUCCO (UNITO, Italy), V P VASILEIADIS (Syngenta Crop Protection AG, Switzerland) & P BALSARI (UNITO, Italy)
- 15:00 COFFEE/TEA
- Session 5 : Demonstrations**  
Chairman : PAOLO BALSARI (UNITO, Italy)
- 15:30 **Demonstrations of sprayer cleaning and visit to bioremediation systems**
- 16:45 **WORKSHOP CONCLUSIONS & RECOMMENDATIONS**  
Chairmen : PAOLO BALSARI (UNITO, Italy), GREG DORUCHOWSKI (INHORT, Poland), TOM ROBINSON (Tom Robinson Sprayers, UK), ESKIL NILSSON (Visavi, Sweden) and DANIEL BONDESAN (Fondazione Mach, Italy)
- 18:00 END OF CONFERENCE