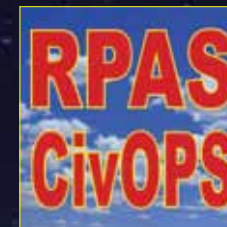




**INTERNATIONAL CONFERENCE - 4<sup>TH</sup> ANNUAL EDITION**

# **REMOTELY PILOTED AIRCRAFT SYSTEMS CIVIL OPERATIONS**



**VENUE, LOCATION & DATE**

**Royal Military  
Academy  
8 Hobbema straat  
Brussels, Belgium  
6 & 7 Dec. 2016**

**ORGANIZED BY**



**BLYENBURGH & CO  
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**IN COOPERATION WITH**



**ROYAL MILITARY  
ACADEMY, BELGIUM**

**UNDER THE AUSPICES OF**

**UVS International  
86, rue Michel Ange  
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tel.: 33-1-46.51.88.65  
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## **EUROPEAN CIVIL RPAS OPERATOR & OPERATIONS FORUM**

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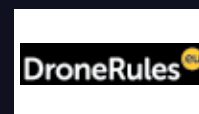
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AERONAUTICAL SYSTEMS**

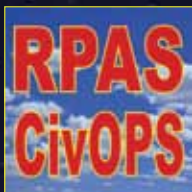


**IN COORDINATION WITH**



RPAS CivOps 2016 - RPAS Operator & Operations Forum - Royal Military Academy - Brussels, Belgium - 6 & 7 December 2016 - [www.rpas-civops.com](http://www.rpas-civops.com)

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pvb@uvs-international.org - [www.uvs-info.com](http://www.uvs-info.com) - [www.rpas-regulations.com](http://www.rpas-regulations.com) - [www.rpas-conference.com](http://www.rpas-conference.com) - Issue Date: 161212 - Page: 1/4



**RPAS CIVOPS 2016**  
**EUROPEAN RPAS OPERATOR & OPERATIONS FORUM**  
**ROYAL MILITARY ACADEMY - BRUSSELS, BELGIUM**



**TUESDAY - 6 DECEMBER 2016**

**Plenary Session 1 - European Institutions**

- P1.1 European Legislation on Civil Drones**  
Matthijs van Miltenburg, European Parliament  
**Development of the Future European Rules on Unmanned Aircraft**
- P1.2**  
● Koen de Vos, European Commission - DG Mobility & Transport (MOVE)  
*Moved to Plenary Session 4 on 7 December 2016*
- P1.3**  
● Antonio Marchetto, European Aviation Safety Agency (EASA)
- P1.4**  
● Jean-Pierre Lentz, European Commission - DG Internal Market, Industry, Entrepreneurship & SMEs (GROWTH)
- P1.5 The RPAS Outlook Study**  
Alain Siebert, Single European Sky ATM Research (SESAR) Joint Undertaking (JU)

**Plenary Session 2 - European Institutions & Federating Groups**

- P2.1 ATM Concept of Operations**  
Mike Lissone, EUROCONTROL, International
- P2.2 JARUS State of Play**  
Mike Lissone, Joint Authorities for Rulemaking on Unmanned Systems (JARUS), International
- P2.3 Multilateral Coordination of RPAS-related Activities**  
Jan Molema, BENELUX General Secretariat
- P2.4 Update of the Activities of the French Civil Drone Council**  
Carine Donzel-Figier, Direction Générale de l'Aviation Civile (DGAC), France  
(On behalf of the French Civil Drone Council)

**Splinter Session 1 - Operations**

- S1.1 State of RPAS-related Research in Germany**  
Prof.Dr.Ing Uwe Meinberg, BTU Cottbus-Senftenberg, Germany
- S1.2 DHL Parcelcopter - Experiences, Technologies, Vision**  
Britta Classen, Deutsche Post DHL Group, Germany
- S1.3 Harmonized RPAS Pilot Training & Licensing - A European Approach for Mutual Recognition**  
Christian Janke, European Aviation Safety Centre, Germany & Embry Riddle Aeronautical University, USA
- S1.4 Railway Inspection Project Using RPAS**  
Yves Degroote, AirRobot, Germany
- S1.5 Making the RPAS Ecosystem Safer**  
Ulrich Hoffmann, Lufthansa Technik, Germany

**Splinter Session 2 - Test Ranges**

- S2.1 Test Ranges in NL: A Community Effort**  
Nico Nijenhuis, Field Lab, The Netherlands
- S2.2 Views of a National Regulator**  
Cees van Sprundel, Ministry of Infrastructure & Environment, Netherlands
- S2.3 Training & Qualifying RPAS Pilots**  
Ludo Guisson, Syntra Limburg, Belgium
- S2.4 Drone Traffic Management : Safety Matters**  
Jean-Pierre De Muyt, Unify, Belgium

**Splinter Session 3 - Safety, Security & Standards**

- S3.1 Detection & Mitigation of Cyber Attacks**  
John Pyrgies, Royal Military Academy, Belgium
- S3.2 Trust in UAS Operations to Safeguard Citizens**  
Jacques Kruse Brandao, NXP Semiconductors, Germany
- S3.3 UAS: Pilots & Human Factors**  
● Dale Richards, Coventry University, UK  
● Kurtulus Izzetoglu, Drexel University, USA
- S3.4 EUROCAE Working Group 105 (UAS)**  
Alexander Engel, EUROCAE, France
- S3.5 Aviation Law & Standardisation in Germany**  
Frank Fuchs, Frank Fuchs Consulting, Germany

**Splinter Session 4 - Pilot Training & Qualification**

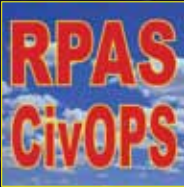
- S4.1 Qualifying Flight Schools**  
Manuel Onate - On behalf of André Clot, EuroUSC International, UK  
(DroneRules Consortium)
- S4.2 UA Pilot Training: The French Approach**  
Bertrand Huron, DGAC - DSAC, France
- S4.3 GA-ASI's UAS Training Academy**  
Dr Jonny King, General Atomics Aeronautical Systems, UK
- S4.4 Would You Fly with an Untrained Pilot?**  
Sander Starreveld, Drone Flight Academy, The Netherlands
- S4.5 Minimum Requirements for Pilots**  
Jan Hesselbarth, Caballero & Hesselbarth Consulting, Germany

**Splinter Session 5 - Operations**

- S5.1 RPAS Operator Qualification - Industry View**  
Mark Sickling, Cyberhawk Innovations, UK
- S5.2 Inherently Harmless RPAS**  
Tom Lund, ProxDynamics, Norway
- S5.3 The Drone Situation in Belgium**  
Laurent Geeraerts, BeUAS, Belgium
- S5.4 The «Blood Drone»**  
Anja Ellis, Agaplesion Frankfurter Diakonie Kliniken, Germany
- S5.5 The Potential Use of Drones in Locust Early Warning & Preventive Control**  
Keith Cressman, Food & Agriculture Organization (UN)

**Splinter Session 6 - National & European Status**

- S6.1 New German RPAS Regulation & Impact on the EASA Prototype Regulation**  
Oliver Heinrich, BHO Legal, Germany  
(DroneRules Consortium)
- S6.2 Update on the Current National Situation**  
Rob van Nieuwland, DARPAS, The Netherlands
- S6.3 A National Strategy for UAS**  
Michael Larsen, UAS Denmark, Denmark
- S6.4 Update on RPAS-relateds Data Protection & Privacy Issues**  
Anna Donovan, Trilateral Research, UK  
(DroneRules Consortium)
- S6.5 Civil RPAS Operations in Spain**  
Manuel Onate, AERPAS, Spain



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**WEDNESDAY - 7 DECEMBER 2016**

**Splinter Session 7 - UAS Traffic Management**

- S7.1 Introduction to GUTMA & Its Activities**  
● Marc Kegelaers - UniFly, Belgium  
● Christian Struwe - DJI, China  
Global UTM Association (GUTMA), Switzerland
- S7.2 UTM Infrastructure & Connected Society**  
Mirel Pehadzic, Nokia, Germany
- S7.3 DFS Perspective on UTM**  
Ralf Heidger, DFS, Germany
- S7.4 The SkyOpener Project**  
Gontran Reboud, ViaSat, Switzerland  
(*SkyOpener Consortium*)

**Splinter Session 8 - Operations**

- S8.1 RPAS for Harbor Security Purposes**  
Anne-Marie Haute, Pilgrim Technology, France
- S8.2 RPAS-related Insurance – The Impact of the Prototype Regulation**  
Jean Fournier, Global Aerospace, France  
(*DroneRules Consortium*)
- S8.3 Use of RPAS for Operational Support in Sea-ice Affected Areas**  
Geir Wiik, Northern Research Institute, Norway
- S8.4 French Civil Drone Council Working Group on Test Ranges: Initial Conclusions**  
Erwin George, ENGIE, France  
(*On behalf of the French Civil Drone Council*)

**Splinter Session 9 - Pilot Training & Qualification**

- S9.1 Italy's Machiavellian Scenario: Going from 106 Flight Schools to only 7**  
Olivier Fontaine, SAPRITALIA, Italy
- S9.2 The Italian RPAS Regulation & Training Centre**  
Col Giovanni Savoldelli Pedrocchi, ENAC, Italy
- S9.3 Implementing European RPAS Learning Objectives in a Curriculum**  
Rob De Roo, Katholieke Hogeschool VIVES, Belgium
- S9.4 Active & Dynamic Geo-Fencing**  
Françoise Derout, Air Space Drone, France

**Splinter Session 10 - Test Ranges & Testing**

- S10.1 Why Test Ranges are Required - A User's Perspective**  
Anne-Marie Haute, Pilgrim Technology, France
- S10.2 DronePort: Test Range & Business Centre**  
Peter Dedrij, DronePort, Belgium
- S10.3 Why Universities Need Test Centres for RPAS & Aerial Robots**  
Gerrit Folkertsma, University of Twente, The Netherlands
- S10.4 Final Results of RPAS ATM Integration Demonstration**  
Jason Gauci, University of Malta, Malta

**Splinter Session 11 - National Regulatory Status**

- S11.1 Recent Controversial Developments in Australian Very Small Drone Regulation**  
Joseph Wheeler, International Aerospace Law & Policy Group, Australia
- S11.2 Structuring National RPAS Activities**  
Mark Vanlook, EUKA, Belgium
- S11.3 The Spanish Regulatory Situation**  
José Maria Ramirez Ciriza, AESA, Spain
- S11.4 Solutions to Regulate & Manage Drone Flying Before the Advent of a Standardized UTM**  
Luc Haeberlé, Colibrex, Germany

**Splinter Session 12 - National Regulatory Status**

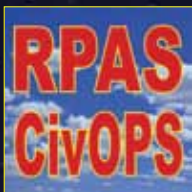
- S12.1 Stimulating Business, Safety & Effective Compliance – Mitigating Risks with Knowledge**  
Dan Richard Isdahl-Eng, UAS Norway, Norway
- S12.2 RPAS Operations in Controlled Airspace**  
Morten Raustein, UAS Norway, Norway
- S12.3 Industrial Inspections & Norwegian Legislation**  
Thomas Moss, Orbiton, Norway
- S12.4 National Overview of RPAS Activities**  
Dr Nobert Lohl, UAV-DACH, Germany

**Plenary Session 3 - SPLINTER SESSION CONCLUSIONS**  
**Verbal Presentations by the Session Moderators**

- Splinter Session 01 - Operations - Uwe Meinberg  
Splinter Session 02 - Test Ranges - Nico Nijenhuis  
Splinter Session 03 - Safety, Security & Standards - Peter van Blyenburgh  
Splinter Session 04 - Pilot Training & Qualification - Sander Starreveld  
Splinter Session 05 - Operations - Tom Lund  
Splinter Session 06 - National & European Status - Manuel Onate

**Plenary Session 4 - SPLINTER SESSION CONCLUSIONS**  
**Verbal Presentations by the Session Moderators**

- Splinter Session 07 - UTM - Ralf Heidger & Gontran Reboud  
Splinter Session 08 - Operations - Jean Fournier  
Splinter Session 09 - Pilot Training & Qualification - Olivier Fontaine  
Splinter Session 10 - Test Ranges & Testing - Peter van Blyenburgh  
Splinter Session 11 - National Regulatory Status - José Ramirez  
Splinter Session 12 - National Regulatory Status - Norbert Lohl  
Speech by Koen de Vos, European Commission DG MOVE



# RPAS CIVOPS 2016

## EUROPEAN RPAS OPERATOR & OPERATIONS FORUM

### ROYAL MILITARY ACADEMY - BRUSSELS, BELGIUM



#### ORGANISATIONS & COMPANIES PRESENTING

- Aerobotica, The Netherlands
- AERPAS, Spain
- AESA, Spain
- Agaplesion Frankfurter Diakonie Kliniken, Germany
- Air Space Drone, France
- AirRobot, Germany
- BENELUX General Secretariat
- BeUAS, Belgium
- BHO Legal, Germany
- BTU Cottbus-Senftenberg, Germany
- Caballero & Hesselbarth Consulting, Germany
- Clear Flight Solutions, The Netherlands
- Colibrex, Germany
- Coventry University, UK
- Cyberhawk Innovations, UK
- DARPAS, The Netherlands
- Deutsche Flugsicherung (DFS), Germany
- Deutsche Post DHL Group, Germany
- Direction Générale de l'Aviation Civile (DGAC) - Direction de la Sécurité de l'Aviation Civile (DSAC), France
- DJI, China (European office)
- Drexel University, USA
- Drone Flight Academy, The Netherlands
- DronePort, Belgium
- DroneRules, EU (BE, DE, FR, UK)
- Embry Riddle Aeronautical University, USA
- ENAC, Italy
- ENGIE, France
- EUKA, Belgium
- EUROCAE, France
- EUROCONTROL, International
- European Aviation Safety Agency (EASA), EU
- European Aviation Systems Center, Germany
- European Parliament, EU
- European Commission DG GROWTH, EU
- European Commission DG MOVE, EU

- EuroUSC International, UK
- Food & Agriculture Organization, International
- Field Lab, The Netherlands
- Frank Fuchs Consulting, Germany
- French Civil Drone Council, France
- General Atomics, UK
- Global Aerospace, France
- Global UTM Association (GUTMA), Switzerland
- International Aerospace Law & Policy Group (IALPG), Australia
- Joint Authorities for Rulemaking on Unmanned Systems (JARUS), International
- Katholieke Hogeschool VIVES, Belgium
- Lufthansa Technik, Germany
- Ministry of Infrastructure & Environment, The Netherlands
- Nokia, Germany
- Northern Research Institute (NORUT), Norway
- NXP Semiconductors, Germany
- Pilgrim Technology, France
- ProxDynamics, Norway
- Royal Military Academy, Belgium
- SAPRITALIA, Italy
- SESAR Joint Undertaking, EU
- SkyOpener, EU
- Space53, The Netherlands
- Syntra Limburg, Belgium
- Trilateral Research & Consulting, UK
- UAS Denmark, Denmark
- UAS Norway, Norway
- UAV-DACH, Germany
- UniFly, Belgium
- University of Malta, Malta
- University of Twente, The Netherlands
- UVS International, The Netherlands
- ViaSat, Switzerland

#### SPEAKERS FROM

• Australia	1
• Belgium	7
• China	1
• Denmark	1
• France	7
• Germany	12
• Italy	2
• Malta	1
• The Netherlands	7
• Norway	3
• Spain	2
• Switzerland	2
• UK	5
• USA	1
National Gvt Authorities	4
Regional Organisations	1
European Institutions	5
Internat. Organisations	3
European Consortia	2

#### SPEAKERS/SESSION

<b>6 December 2016</b>	
2 Plenary Sessions	9
<b>6 &amp; 7 December 2016</b>	
12 Splinter Sessions	53
<b>7 December 2016</b>	
2 Plenary Sessions	12
<b>Total Number Speakers</b>	<b>74</b>

#### SPEAKER CATEGORIES

- Academia
- Air Navigation Service Provider
- Civil Drone Council
- Consulting Company
- European Commission
- European Consortium
- European Parliament
- European Public/Private Partnership
- European Union Agency
- Flight School
- Hospital (RPAS Operator)
- Insurer
- International Association
- International Organisation
- Law Firm
- Logistics (delivery by RPAS)
- Manufacturer (various)
- National Association
- National Aviation Authority
- National Federation
- National Public/Private Partnership
- Privacy & Data Protection
- Railroad (RPAS operator)
- Regional Economic Promo Agency
- Regional Organisation
- Research Organisation
- RPAS Manufacturer
- RPAS Operator
- Service Supply Company
- Test Range
- UTM Developer

#### WHITE PAPERS BY

- Anja Andrea Ellis - Agaplesion-Frankfurter-Diakonie-Klinken, Germany
- Keith Cressman - Food and Agriculture Organization of the United Nations
- Jacques Kruse Brandao - NXP Semiconductors, Germany