



## BACKGROUND & ACTIVITIES

### PROMOTING INTERNATIONAL COORDINATION & COOPERATION IN THE FIELD OF UNMANNED SYSTEMS & RELATED TECHNOLOGIES

#### Introduction

UVS International is a non-profit association registered with the Chamber of Commerce in The Hague, The Netherlands and operates out of offices in Paris, France. It represents manufacturers of unmanned vehicle systems (UVS), sub-systems and critical components for UVS and associated equipment, as well as companies supplying services with or for UVS, research organizations and academia. In this context, UVS should be understood as re-useable and expendable unmanned air, ground and naval vehicle systems, as well as non-reusable unmanned air, ground and naval target systems.

UVS International has over 250 corporate, academic and institutional members in 34 countries on 5 continents, namely in:

Argentina	Australia	Austria
Belgium	Brazil	Canada
China	Denmark	Finland
France	Greece	Hungary
India	Italy	Japan
Latvia	New Zealand	Norway
Portugal	Singapore	Slovenia
South Africa	Spain	Sweden
Switzerland	USA	

For additional information on the membership see page 2.

In general terms, UVS International's objectives are to:

- Promote UVS (air, ground, naval & space) of all sizes & classes and their current & future applications;
- Provide the UVS community with a voice on a global level;
- Provide a means to obtain international consensual views on topics of importance to the international UVS community;
- Provide a channel for information exchange between industry, governmental authorities (civil & military), civil aviation authorities, academia, civil & military R&D organizations, and international organizations;
- Provide a forum to identify and examine business opportunities & areas of interest for the benefit of the international UVS community.

More specifically, UVS International endeavours to:

- Promote the establishment of unmanned aircraft systems (UAS) related standards, airworthiness, certification & air traffic management (ATM) norms on national, pan-European and international levels, and to co-ordinate the various national efforts on a global level, in order to contribute towards an early harmonization of the diverse national approaches;
- Instigate and co-ordinate international UVS promotional efforts (conferences, workshops, exhibitions);
- Promote and instigate international industrial co-operation;
- Co-ordinate relations with existing national, pan-European & international organizations for the benefit of the members and the entire UVS community;
- Provide a forum for potential users to present their requirements;
- Centralise UVS-related information & reference documents;
- Keep members informed on international UVS developments;
- Promote the future civil & commercial use of UVS systems;
- Promote co-operation between industry, R&D organizations

and academic institutions;

- Promote awareness of unmanned aircraft systems with the relevant stakeholders and the general public.

#### Background & Milestones

UVS International originally started its activity as EURO UVS, which was instigated in June 1995, as an initiative to federate the European UVS industry. EURO UVS initially functioned as a loose federation of corporate entities without any official legal structure. In May 1998 it was incorporated in Paris, France as a French registered association. It rapidly became apparent that the French association structure and French law governing associations would not allow the association to develop in the desired direction and take on the activities it was aiming for. Consequently, it was decided to terminate its existence as a French registered association and to found a new one with the same name in The Netherlands. EURO UVS was registered with the Chamber of Commerce in The Hague, The Netherlands in January 2000. The French registered association ceased to exist in May 2000.

Starting at its original inception, the association has endeavoured to have a significant number of honorary members; these honorary members are all representatives of national civil aviation authorities or serving military officers directly involved with unmanned systems. The intent of this category of members was to create an international network, which would permit the honorary members to contact each other and discuss UVS matters of mutual interest as association members, instead of having to go through official channels, thereby making the circulation of information much faster, and at the same time creating beneficial relationships.

Starting in 1999, the association instigated the formation of national UAS working groups consisting of industry, and in some cases government and military representatives, to deal with UAS-related airworthiness, certification and air traffic management issues on a national level, and to exchange information amongst each other. This initiative resulted, directly or indirectly, in the formation of the following national associations:

- AVBS, Czech Rep.
- Japan UAV Association
- Korea UVS Association
- UAS Norway
- UAV DACH, Germany
- UAVS, UK
- UVS Canada (since 2009 called Unmanned Systems Canada)
- UVS France

UAV DACH, a multi-national German language UAS Working Group (Austria + Germany + Netherlands + Switzerland), was instigated by UVS International in 2000 and became a national association in 2010.

#### 1<sup>st</sup> Increase of Voting Rights

In December 2002, the General Assembly decided to extend voting rights to include corporate members with their registered headquarters and principal place of operations in an ECAC country, namely: Albania, Armenia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Rep., Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Rep.

**UVS International Membership - Classification**

	Qty
Academia - Education & Research	9
Air Navigation Service Provider	1
Certification Authority	1
European Association	1
Government - Research	2
Government - Think Tank	1
Industry - Producer - UAS	10
Industry - Producer - UAS + Sub-System	13
Industry - Producer - UAS + Sub-System & Aerial Work Provider	7
Industry - Producer - UAS Sub-System	10
Industry - Research	6
Industry - Test & Evaluation	3
International Association - Aerial Work Providers	1
International Association - Standards Organization	1
Media & Press	1
National Association	7
Regional Economic Promotion Entity	3
SME - Consulting	4
SME - Event Organisers	1
SME - Operator - Aerial Work Provider	4
SME - Operator - Robots in Hazardous Areas	1
SME - Producer - UAS	12
SME - Producer - UAS & Aerial Work Provider	7
SME - Producer - UAS + Sub-System	5
SME - Producer - UAS + Sub-System & Aerial Work Provider	2
SME - Producer - UAS Sub-System	36
SME - Regulatory Service Provider	1
SME - Research	3
SME - Strategic Consulting	3
SME - UAS Operator Training	1
<b>Sub-Total of Members (Corporate &amp; Other)</b>	<b>157</b>
<b>Institutional Members (Honorary)</b>	<b>109</b>
- National Regulatory Authorities	
- National Military Authorities	
- NATO	
- Government	
<b>Total Corporate &amp; Institutional Members</b>	<b>266</b>

**Membership Break-Down**

	Total	Europe	Non European
<b>Small- &amp; Medium-sized Enterprises (SMEs)</b> (employees < 250; annual turnover < € 50 million)	84	69	15
<b>Industry</b> (employees > 250; annual turnover > € 50 million)	48	33	15
<b>Other:</b> - Academia	9	8	1
- Associations (national, European, internat.)	10	7	3
- Government - Research	2	2	
- Government - Think Tank	1	1	
- Regional economic promotional entities	3	3	
- Institutional Entities (Honorary Members)	109	87	22
<b>Total</b>	<b>266</b>	<b>210</b>	<b>56</b>

**Cooperation/Coordination With National Associations & Working Working Groups**

	Nr Mbrs
AVBS, Czech Rep.	7
Japan UAV Association, Japan	12
RCAPA, USA	1543
UAS WG - Denmark	TBA
UAS WG - Netherlands & Belgium	TBA
UAS WG - Spain	TBA
UAV-DACH, Germany	22
UAVS, UK	60
UAS Norway, Norway	13
Unmanned Systems Canada, Canada	40
UVS Brazil, Brazil	TBA
UVS France, France	9
<b>Total Corporate &amp; Institutional Members</b>	<b>1706</b>

**UVS International Board of Directors - Composition**

	Qty
<b>Full Members:</b>	<b>15</b>
- Small- & Medium-Sized Enterprises (SMEs) (employees < 250; annual turnover < 50 million)	5
- Industry (employees > 250; annual turnover > 50 million)	9
- Academia	1
<b>Observers:</b>	<b>4</b>
- Air Navigation Service Provider (ANSP)	1
- Air Traffic Management Authority	1
- Small- & Medium-Sized Enterprises (SMEs)	1
- Industry	1
<b>Countries Represented:</b>	<b>11</b>
- Europe: Denmark, Finland, France, Norway, Spain, Sweden, UK	7
- Outside Europe: Canada, Israel, Russian Fed., USA	4

**Member Organizations By Country**

	Country	Corporate	Institutional
01	Argentina		2
02	Australia	3	3
03	Austria	2	
04	Belgium	2	3
05	Botswana		1
06	Brazil	1	
07	Canada	6	2
08	Czech Rep.	8	
09	Denmark	1	1
10	Europe	1	3
11	Finland	6	3
12	France	29	3
13	Germany	17	5
14	Greece	1	
15	Hong Kong	1	
16	Hungary		1
17	India	1	1
18	Israel	5	
19	Italy	4	1
20	Japan	2	
21	Latvia	1	
22	NATO		4
23	Netherlands	8	2
24	New Zealand		4
25	Norway	6	2
26	Portugal		1
27	Russian Fed.	4	
28	Singapore		1
29	Slovenia	2	
30	South Africa	2	2
31	South Korea		3
32	Spain	8	
33	Sweden	7	2
34	Switzerland	8	1
35	UK	12	6
36	USA	9	3
<b>Sub-Total</b>		<b>157</b>	<b>60</b>
<b>National Regulatory Authorities</b>			<b>12</b>
<b>National Military Authorities</b>			<b>41</b>
<b>NATO</b>			<b>4</b>
<b>Government</b>			<b>3</b>
<b>Combined Total</b>		<b>237</b>	

**UVS International Is A Member Of**

ICAO UAS Study Group  
EUROCAE WG73 on UAS, France  
European Group of Institutes of Navigation  
RTCA SC203, USA  
ATCA, USA

of Moldova, Monaco, Netherlands, Norway, Poland, Portugal, Romania, Slovak Rep., Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, and such other countries as the association's Board of Directors could unanimously agree on.

### **Name + Statute Change & 2<sup>nd</sup> Increase of Voting Rights**

In early December 2003, the EURO UVS General Assembly decided by unanimous vote to modify its statute by granting voting rights to all corporate members, irrespective of the country in which they are established and where they deploy their principal activities, and to change its name to UVS International, in order to better reflect the association's global character and outreach. As not all members with voting rights were present at the General Assembly, it was decided to inform all members with voting rights and permit them to cast their vote by email. All votes cast, but one, were in favour of the proposed statute amendment.

In February 2004, EURO UVS changed its name to UVS International and the association's new statute entered into force. The new statute now permits the corporate member representatives from all countries (except those on the United Nations and/or the European Union blacklist) to submit their candidacy for a position on the association's Board of Directors. The association's Statute can be found at [www.uvs-international.org](http://www.uvs-international.org)

### **Organization & Management**

As already indicated, UVS International is a Dutch legal entity registered in The Hague, The Netherlands. However, most of its activities are deployed from offices in Paris, France, which are put at its disposal by the French registered company Blyenburgh & Co.

This company has been contractually entrusted by the UVS International Board of Directors with the day-to-day management of the association. Blyenburgh & Co has also been entrusted with the responsibility of creating and maintaining the association's web site and organising all UVS International conferences & exhibitions, symposiums and workshops, which are all organized without any financial risk to UVS International, or its members.

### **The Board of Directors**

The members of the Board of Directors are elected by the association's General Assembly for a two year term.

In January 2006, the General Assembly voted to increase the number of Board of Director members. In February 2008, the UVS General Assembly, followed by an Extra Ordinary General Assembly in April 2008, voted to again increase the number of Board of Director members and to modify the association's statute in order to make this possible. The current composition of the UVS International Board of Directors is indicated on the following page.

Board of Director Observer status can be granted by the Board of Directors to a deserving individual. Observers do not have voting rights concerning matters decided by the Board of Director, but participate in all board deliberations. The transition from Observer to full board member is decided by the General Assembly.

### **Global Access Initiative**

In August 2005, UVS International initiated the Global Access

Initiative, which has as objective to make UAS-related information (regulatory, technical, commercial) available to all. Within the framework of the Global Access Initiative, UVS International representatives have given multiple presentations at conferences worldwide. Detailed information on the Global Access Initiative and the list of presentations made since 2006 can be found on [www.uvs-info.com](http://www.uvs-info.com) and in the latest edition of the UAS Yearbook.

### **International Coordination Council (ICC)**

In March 2008, the UVS International Board of Directors decided to establish the International Coordination Council (ICC). The ICC is an advisory group without a legal structure, which functions as a working group. The following types of organizations are eligible to join the ICC:

- National associations;
- National centres of excellence;
- National & multi-national working groups;
- National competence centres;
- European technology platforms.

The general goals of the ICC, which should be seen within the framework of UVS International's Global Access Initiative, are:

- Contribute to increasing international awareness of UAS-related matters;
- Give national and multi-national working groups the possibility to make their voice heard globally;
- Increase the dual-directional flow of information in all fields between all ICC members;
- Be instrumental to organize and supply national inputs to international working groups, or other UAS-related international efforts (see below).

The scope and activities of the ICC are as follows:

- ICC members supply, on a voluntary basis, the UVS International Board of Directors with:
  - Recommendations on policy to be followed and/or actions to be taken by UVS International;
  - Recommendations on new activities to be initiated by UVS International;
  - Information for dissemination to the international UVS community.
- ICC members receive from UVS International:
  - Information for dissemination to its members;
  - Support to organize national conferences, symposiums, workshops, etc;
  - Support to internationally promote national events;
  - The UVS News Flash and permission to redistribute it to their organization's members;
  - A special section in the UVS News Flash for announcements by their organization;
  - The possibility to supply technical and opinion papers for insertion in the UVS News Flash and/or UVScope (international technical informative electronic magazine which will be launched in the near future);
  - Hard copies of the annual UAS Yearbook (for distribution to their organization's members), and an electronic copy of this publication for posting on their organization's web site and/or intranet.

Two of the basic objectives of the ICC are to:

- Bring the international UAS community together without any single organization dominating another, and increase the flow of information to all;
- Promote international coordination, cooperation & understanding.

One of the drivers to create the ICC was to put up a structure

# 2011 UVS International Board of Directors



Jean Caron  
EADS - Cassidian AS ●  
France  
*Treasurer*  
(2<sup>nd</sup> year - 5<sup>th</sup> mandate)



Eduardo Carrillo  
Boeing R&T Europe ●  
Spain  
*Director*  
(2<sup>nd</sup> year - 1<sup>st</sup> mandate)



Gilles Fartek  
Integra ◆  
Denmark  
*Director*  
(1<sup>st</sup> year - 1<sup>st</sup> mandate)



Claus Frey  
EADS - Cassidian ●  
Germany  
*Observer*  
(1<sup>st</sup> year - 1<sup>st</sup> mandate)



Ian Glenn  
ING Engineering ◆  
Canada  
*Director*  
(2<sup>nd</sup> year - 2<sup>nd</sup> mandate)



Ole Vidar Homleid  
Robot Aviation ◆  
Norway  
*Director*  
(2<sup>nd</sup> year - 1<sup>st</sup> mandate)



Tore Kallevig  
Avinor ●  
Norway  
*Observer*  
(2<sup>nd</sup> year - 1<sup>st</sup> mandate)



Alexander Koldaev  
Irkut Corporation ●  
Russia  
*Director*  
(2<sup>nd</sup> year - 2<sup>nd</sup> mandate)



Mike Lissone  
Eurocontrol ✪  
Belgium  
*Observer*  
(2<sup>nd</sup> year - 1<sup>st</sup> mandate)



Simo Mäkipaja  
Patria ●  
Finland  
*Director*  
(2<sup>nd</sup> year - 1<sup>st</sup> mandate)



Gérard Mardiné  
Sagem DS ●  
France  
*Director*  
(2<sup>nd</sup> year - 1<sup>st</sup> mandate)



Steve May  
General Atomics AS ●  
USA  
*Director*  
(2<sup>nd</sup> year - 2<sup>nd</sup> mandate)



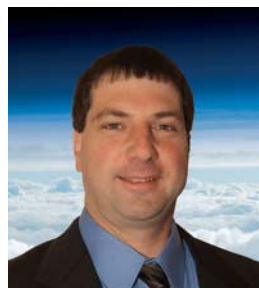
Nick Miller  
Thales Aerospace ●  
United Kingdom  
*Director*  
(2<sup>nd</sup> year - 4<sup>th</sup> mandate)



Abdulaye N'Diaye  
Thales Avionics ●  
France  
*Secretary*  
(1<sup>st</sup> year - 1<sup>st</sup> mandate)



George Papageorgiou  
Honeywell Aerospace ●  
France  
*Observer*  
(1<sup>st</sup> year - 1<sup>st</sup> mandate)



Itai Toren  
Elbit Systems ●  
Israel  
*Director*  
(2<sup>nd</sup> year - 2<sup>nd</sup> mandate)



Peter van Blyenburgh  
Blyenburgh & Co ◆  
France  
*President*  
(2<sup>nd</sup> year - 7<sup>th</sup> mandate)



Robert Veenhuizen  
CybAero ◆  
Sweden  
*Director*  
(2<sup>nd</sup> year - 2<sup>nd</sup> mandate)



John Walker  
The Padina Group ◆  
USA  
*Director*  
(2<sup>nd</sup> year - 3<sup>rd</sup> mandate)

◆ = SME/SMI (<250 employees; Turnover: <Euro 50 M) ● = Industry (>250 employees; Turnover: >Euro 50 M) ○ = ANSP ✪ = ATM Authority

that would permit the international Light UAS community to contribute in a significant way to the ongoing standards work concerning Light UAS (<150 kg) in EUROCAE WG73 SG4. The start-up of the ICC was coordinated with the Joint Authorities for Rulemaking on Unmanned Systems (JARUS).

The current ICC members and their representatives are:

- |                             |                      |
|-----------------------------|----------------------|
| ● AVBS, Czech Republic      | Martin Balda         |
| ● European Air Sports Assn. | Graham Lynn          |
| ● Korea UVS, South Korea    | William Park         |
| ● RCAPA, USA                | Patrick Egan         |
| ● UAS Norway, Norway        | Ole Vidar Homleid    |
| ● UAS WG - Denmark          | Gilles Fartek        |
| ● UAS WG - Netherlands      | Jan-Floris Boer      |
| ● UATAR WG27, Australia     | James Mellor         |
| ● UAV DACH, Germany         | Bernhard von Bothmer |
| ● UAVS, UK                  | John Moreland        |
| ● Unmanned Systems, Canada  | Eric Edwards         |
| ● UVS Brazil, Brazil        | Luiz Munaretto       |
| ● UVS France, France        | Jean-Christophe Drai |

### Organization of Conferences & Workshops

Conferences, either with or without associated exhibitions, and workshops are an important activity for the association. Most conferences organized by UVS International are technical and non-commercial and strive to bring the international unmanned systems community together.

The annual UAS conference in Paris has without any doubt become not only the largest UAS-related conference in the world, but also the prime international forum focussing on UAS-related standards, airworthiness, certification and air traffic management issues. It is the only event of its kind where UAS policy is discussed.

The excellent relations that UVS International maintains with a large number of European and non-European Ministries of Defence, national civil aviation authorities, European Aviation Safety Agency (EASA), European Defence Agency (EDA), Eurocontrol, Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO), Joint Authorities for Rulemaking on Unmanned Systems (JARUS), NATO & numerous stakeholder groups, make it possible to have significant regulatory authority, government & military participation at these events.

Since its inception, UVS International has organized or contributed to the organization of a significant number of conferences and workshops in Europe, Africa, Asia, Australia, the Middle East and North America.

### UVS International News Flashes

Starting in January 2005, UVS International initiated a news flash service for its members. By means of this service, the association supplies information (articles, press releases, etc) on unmanned vehicle systems (air, ground, naval) to its members.

This service has now been extended to also include all government representatives (civil & military), as well as representatives of national civil aviation authorities (CAAs), international regulatory authorities, air navigation service providers (ANSPs), international organizations, the diplomatic corps and academia that figure in the UVS International database.

### UVS International Web Site

The association's web site ([www.uvs-international.org](http://www.uvs-international.org)) has

features, amongst others, information on the association's background & activities and how to join, a library with member brochures & product datasheets, a photo library with photo of UAS produced by members, the UVS News Flash library, documents relative to various actions undertaken by the association, announcement of upcoming events, and links to its members web sites.

### World's Largest Generic UVS Web Site

In 2006, the [www.uav-info.com](http://www.uav-info.com) web site address was changed to [www.uvs-info.com](http://www.uvs-info.com). This generic web site, developed by Blyenburgh & Co for the benefit of UVS International members and the international UVS community in general, currently has two distinct sections:

- unmanned aircraft systems (UAS);
- unmanned ground vehicle (UGV) systems.

Amongst other things, the UAS section contains the complete 2003, 2004, 2005, 2006, 2007, 2008, 2009 & 2010 editions of the UAS yearbooks, photo reports of UAS deployments, probably the world's largest on-line UAS photo library (produced by members & non-members), a review of unmanned vehicle system-related R&D projects, UAS-related terms & definitions and abbreviations, the world's largest collection of international UAS-related regulatory documents, manufacturer's UAS brochures & datasheets produced by members & non-members).

The UGV Section contains more than 300 technical specification forms from 140 companies in 27 countries, a UGV photo and datasheet library, a similar R&D project review section as in the UAV Section, generic UGV documents (studies, national roadmaps, programme overviews) and UGV system brochures.

This web site also features:

- unmanned vehicles system-related brochures (systems & sub-systems) (air, ground, naval) provided by the association's corporate members, and non-members;
- downloadable & printable UAS and UGV posters;
- web links to the web sites of all UVS International corporate members, national civil aviation authorities, international regulatory authorities, aviation stakeholders, and partner organizations.

### The UCARE Programme

The international UCARE (UAVs: Concerted Actions for Required Regulations) Programme was initiated by Blyenburgh & Co for UVS International with the objective to create the basis of an organization to develop recommendations with the aim to facilitate the establishment of rules and regulations allowing the introduction of military and civil/commercial UAS into civil managed airspace, regardless of borders.

The basic strategy was to federate the international UAS community behind a common goal, and, within a dedicated framework, create the required basis for issuing recommendations for a consensual policy and competence standards.

There were two levels of participation: Participants & Contributors. Participants were representatives of corporate UVS International members, industry associations, and international organizations (Eurocontrol, FAA, JAA, NATO) that took on specific work tasks. The Participants were organized on a national or multi-national basis under a national coordinator. UCARE had Participants in Australia, Austria, Canada, France, Germany, Israel, Italy, Japan, Netherlands,

South Africa, Spain, Sweden, Switzerland, UK, USA.

Contributors were representatives of non-corporate entities and international organizations (civil & military government organizations, Eurocontrol, FAA, JAA, NATO, national civil aviation authorities, government R&D organizations, universities), which contributed significantly by supplying documents and studies.

The UCARE document library has been migrated to [www.uvs-info.com](http://www.uvs-info.com), which now offers the world's largest publicly available library of documents & opinion papers relating to airworthiness, certification and air traffic management issues pertaining to unmanned aircraft systems.

### **Joint JAA/Eurocontrol UAV Task Force**

On April 3, 2002, after substantial lobbying by UVS International, the Joint Aviation Authorities (JAA) agreed to set up the Joint JAA/Eurocontrol UAV Task Force. The terms of reference of this Task Force, agreed on by the JAA Executive Board and Eurocontrol, were subsequently presented during the UCARE Symposium part of the UAV 2002 conference in Paris, France in June 2002. The first meeting of the UAV Task Force took place at JAA headquarters in Hoofddorp, The Netherlands on October 9 and 10, 2002.

In accordance with the Terms of Reference, the «concept» approach proposed by JAA, addressed the design, manufacture and maintenance of UAS, the operations of UAS (in particular the approval of operators), the Rules of the Air and various security-related issues. The concept was to be based on:

- Identification of current & budding UAS technologies and their possible applications;
- Creation of UAS categories;
- Identification of lower mass limit(s) for regulations at European level;
- Review of existing documents (draft standards, research studies);
- Consideration & evaluation of the use of a total system approach.

Particular attention was paid to operator qualification & approval, legal issues in relation to the ICAO Convention Art. 8, and terminology issues; the composition of the UAV Task Force was established in accordance with JAR-11 (JAA Regulatory & Related Procedures) and Eurocontrol's requirements for stakeholder involvement. UVS International fulfilled the Task Force's secretariat function.

The joint JAA/Eurocontrol UAV Task Force, was the first initiative of its kind in the world. The UAV Task Force's final report, which has become an internationally recognised reference document, can be found on [www.uvs-info.com](http://www.uvs-info.com).

### **EASA's A.NPA**

On October 18, 2005 UVS International, in anticipation of the Advance Notice of Prior Amendment (A.NPA) to be published by the European Aviation Safety Agency (EASA), organized a presentation of the policy section of the A.NPA by Yves Morier (EASA) to European industry and interested government representatives at the Belgian Aeronautical Museum in Brussels, Belgium. This meeting had as principal purpose to permit EASA to explain the background and intention of the A.NPA and to allow European industry representatives to request clarification of certain sections of the A.NPA text, which had been made available to all attendees several days prior to the meeting. The draft A.NPA had undergone internal EASA consultation and had also been supplied to FAA for

commentary.

EASA's A.NPA was published on November 7, 2005. The complete text of the A.NPA is posted on [www.uvs-info.com](http://www.uvs-info.com). The A.NPA can be seen as the follow-on to the widely applauded Joint JAA/Eurocontrol UAV Task Force's Final Report that came out in June 2004. The A.NPA concerns aircraft with a MTOW of more than 150 kg and addresses, amongst others, the following issues: the procedure for UAS certification, type certification, selection of the manned airworthiness code reference, the tailoring of the reference manned airworthiness code, UAS safety objectives & criteria, special conditions & interpretative material, continued airworthiness.

UVS International, with inputs from the Euro UAV ICB members, observers and corporate observers, supplied a federated European commentary to the A.NPA. UVS International also instigated a coordinated Canadian commentary to the A.NPA.

### **European UAV Industry Consultation Body**

In anticipation of the publication of the final report of the Joint JAA/Eurocontrol UAV Task Force, UVS International instigated the formation of this Industry Consultation Body (ICB) in April 2004. The vision of the Euro UAV ICB was to have operators of qualified civil, commercial and military UAV systems able fly their UAS routinely, safely & reliably in non-segregated European airspace.

The Euro UAV ICB gave itself the mission to be the European industrial focal point for all European authorities (civil & military, including NATO FINAS), and to take a pro-active European industry position concerning the development of recommendations relative to requirements and procedures that are necessary to make its vision reality. These recommendations were to encompass, but not be limited to, requirements & procedures in the following categories:

- Airworthiness
- Safety & Security
- Maintenance
- CNS/ATM
- Legal Considerations
- System Certification
- Flying Operations
- Training
- Aerodrome Interface

The companies participating in the Euro UAV ICB agreed to federate their expertise & pool their resources in order to attain their objectives. The Euro UAV ICB was officially established in February 2005 and functioned as an independent working group entity with its own finances, and in accordance with the Statute of UVS International. The secretariat function was entrusted to UVS International.

In February 2007 the companies participating in the Euro UAV ICB concluded that, in order to take their initiative to the next stage, a more formal structure was required. Furthermore, they wanted to participate in a proposal to the European Defence Agency concerning a study contract. They decided to combine their forces with those of several other companies, which were not participating in the Euro UAV ICB (Alenia Aeronautica, BAE Systems, EADS CASA), and to unite within a UAS working group under the banner of ASD (European Aerospace & Defence Manufacturers Association), of which most were a member.

### **International Civil Aviation Organization UAS Study Group**

On June 27, 2005 the International Civil Aviation Organization (ICAO) issued a consultation with selected States and international organizations with regard to UAS and concerning:

- Present and foreseen international civil UAS activities in civil airspace;
- Procedures to obviate danger to civil aircraft posed by UAS operated as State aircraft; and
- States' procedures for the issuance of special operating authorizations for international civil UAS operations.

Furthermore, it was requested, in view of the limited resources at the disposal of ICAO, and in order to enable the Air Navigation Commission to determine an appropriate level of priority for UAS-related issues compared to other tasks on the work programme, to supply as much detail, copies of, or web links to, national regulations or guidance material.

UVS International was one of the two international organizations consulted, and formulated its reply in consultation with the Euro UAV ICB, and with inputs from Japan, New Zealand, and South Africa. After receipt and evaluation of the replies, ICAO invited the representatives from the States who had replied, and UVS International, to participate in an exploratory meeting on UAS. This meeting took place at ICAO headquarters in Montreal, Canada in May 2006. At this meeting a small core group was formed to produce a guidance document for ICAO; UVS International was part of this core group.

Subsequently, a second meeting took place at the FAA facilities in Palm Coast, Florida, USA, where this core group presented their guidance document to ICAO. The guidance document was subsequently presented to the ICAO Council and the green light was given in October 2007 by the ICAO Council to start up an ICAO UAS Study Group (UASSG). The ICAO UASSG had its first meeting at ICAO headquarters in April 2008 and its members now consist of:

- European Commission;
- State representatives (civil aviation authorities) from: Australia, Austria, Brazil, Canada, China, Czech Rep., France, Germany, Italy, Netherlands, Russian Fed., Singapore, South Africa, Sweden, UK, USA.
- 9 International organizations: CANSO, EASA, EUROCAE, Eurocontrol, IAOPA, ICCAIA, IFALPA, IFATCA, UVS International.

UVS International continues to participate in and contribute to the work being accomplished by the ICAO UAS Study Group. UVS International is proud to have been invited to participate in the ICAO UAS Study Group activities.

#### **USEP - European Inter-Governmental Initiative**

In 2003 the Conseil Général de l'Armement (CGArm), a French Ministry of Defence think-tank reporting directly to the French Minister of Defence, mandated a study on the future of UAS, for intelligence & combat missions (UCAV) within the European military context. This study, designated «U(C)AV Systems» was finalised in 2004.

The follow-on to the aforementioned study, a new study designated USEP (Unmanned Aircraft Systems for Security & Environmental-related Purposes), was instigated by CGArm in September 2005 and concerned the potential use of UAS for security and environmental-related, as well as various other civil (commercial & non-commercial) purposes in Europe. The objective of the USEP initiative was, in co-ordination with the participating government authorities, and with non-competitive inputs from industry, to:

- Create, or increase, the awareness with national governmental entities (ministries & related agencies & departments) of the potential offered by UAS within the framework of their respective tasks;

- Form three working groups and co-ordinate a European drive to jointly identify, document and evaluate:

#### Operational Needs

- description of needs (scenarios, geographical coverage, timing, data precision);
- global European market assessment (over the coming 15 years);

#### Technical Issues

- synergy with defence UAS and equipment solutions;
- communication link bandwidth requirements and frequency allocation;
- R&T update, incl. deployment in non-segregated airspace;

#### Organization & Strategy

- equipment or service acquisition;
- relevant ongoing national activities and recommendations for the future (co-operation within nations and within Europe).
- Identify and evaluate, the necessary funding required to make it possible to use State and non-state owned UAS for purposes with societal benefits in European airspace.

UVS International was invited by CGArm to contribute to the USEP study and to help establish it as a transparent and federated pan-European initiative, and act as the channel of communication and its symposium organizer. A report on the conclusions of the USEP study was featured in the 2007 edition of the UAS yearbook, and can also be found on [www.uvs-info.com](http://www.uvs-info.com).

#### **European Defence Agency Study Contracts**

In July 2006, UVS International received a contract from the European Defence Agency (EDA) to conduct a study relative to the possible future use of UAV systems for security & environmental purposes in Europe. This study concerned the potential for non-military government applications of all classes of UAS (by ministry of interior, ministry of the environment, ministry of transport, ministry of agriculture, etc ....) for roles such as homeland security matters (crowd surveillance/control, border patrol, illegal immigrant control, anti-terrorism, drug & weapons control, anti-crime, anti-piracy), surveillance of inland & coastal waters, sea lane surveillance, dike inspection, inspection of bridges & historical monuments, search & rescue, fishery control, peacekeeping operations, forest fire detection/surveillance, traffic management, shipping surveillance/monitoring, natural disaster area survey, (nuclear) crisis management, emergency communication networks, crop monitoring, meteorological applications, atmospheric measurements, glacier & ice cap monitoring, pollution monitoring, etc. This study was concluded in September 2006.

In 2007 UVS International received a second study contract from EDA, but now relative to UAS payloads; this study was successfully concluded that same year.

#### **UVS International Awards**

##### The Catherine Fargeon Award

In 2003 UVS International instigated the Catherine Fargeon Award. This award, which carries the name of the first person who received it in 2003 (Dr Catherine Fargeon, French Ministry of Defence, Conseil Général de l'Armement), is presented to persons in recognition of their personal commitment & contribution to promoting the insertion of unmanned aircraft into non-segregated airspace and/or the general promotion of the future use of unmanned aircraft.

- In 2010, this award was presented to the following persons:
- André Clot, EuroUSC, UK;

- Zdravko Kolev, FRONTEx (European Commission agency for border security);
- MajGen Carlo Magrassi, European Defence Agency;
- Rune Storvold, Northern Research Institute, Norway;
- Martin Stoussavljewitsch, European Defence Agency;
- Luc Tytgat, European Commission, DG MOVE.

Earlier recipients of this award are:

- Michael Allouche, IAI-Malat, Israel (2008);
- Gilbert Amato, EUROCAE (2005);
- Jeff Bauer, NASA Dryden Flight Research Center, USA (2006);
- LtCdr Geoff Bowker, CAA-DAP, UK (2007);
- Leslie Cary, ICAO (2009);
- Jim Christner, AAI Corp. (Textron), USA (2009);
- Doug Davis, FAA UAV Program Office, USA (2006);
- Cdt Régis Brigaud, DGA-DCE-CEV, France (2005);
- Roland Decuypere, RMA (rtd), Belgium (2007);
- Gilles Fartek, European Commission, DG TREN (2009);
- Vince Galotti, ICAO, Canada (2007);
- Ken Geiselhart, Lockheed Martin, USA (2009);
- Ian Glenn, ING Engineering, Canada (2008);
- Cdt Christophe Gyr, DGA-DE-CEV, France (2006);
- Alex Hendriks, Eurocontrol (2005);
- Serge Lebourg, Dassault Aviation, France (2006);
- Gerhard Lippitsch, Austrocontrol, Austria (2008);
- Gérard Mardiné, Sagem Défense & Sécurité, France (2008);
- Douglas Marshall, University of North Dakota, USA (2009);
- Holger Matthiesen, Eurocontrol, Belgium (2007);
- Yves Morier, European Aviation Safety Agency (2005);
- Fred Pease, Department of Defense, Policy Board on Federal Aviation, USA (2007);
- Nick Sabatini, FAA, USA (2005);
- WgCdr Mike Strong, Eurocontrol, Belgium (2007);
- Giuliana Tamburro, ENAC, Italy (2005);
- Karen Tarr, Transport Canada, Canada (2008);
- Ron van de Leijgraaf, IWV (CAA), The Netherlands (2008);
- John Walker, JSWalker Group, USA (2006);
- Cliff Whittaker, CAA, UK (2008);
- Klaus Wohlers, Rheinmetall DE, Germany (2006).

#### UVS International Award for Awareness Creation

In 2007, UVS International gave a special award to Ken Munson [Jane's Information Group, UK (rtd)] in recognition for his long-standing personal commitment and contribution to promoting awareness of UAS.

#### The UAS Pioneer Award

In 2008, UVS International instituted the «UAS Pioneer Award» in order to honour and thank individuals for their exceptional and dedicated life time services to the international UAS community. The first recipients of this award were:

- Filippo De Florio, ENAC, Italy (rtd);
- Malcolm Walker, CASA, Australia (rtd).

This award is now called the De Florio/Walker Award.

#### The De Florio/Walker Award

The first recipient of the De Florio/Walker award (2009) was:

- Giuliana Tamburro, ENAC, Italy (✚ 2009).

### **UAS Photo Competition**

In 2010, UVS International organized its fifth international UAS photo competition. This competition is open to all persons from all countries; it is not a requirement to be a member of UVS International. The winners of the 2010 photo competition, and the winning photos are published in the 2010 edition of the UAS Yearbook (UAS: The Global Perspective).

All information relevant to the 2011 UAS photo competition

(including the photo categories, technical details & submission deadlines) can be found on-line at: [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com)

### **EUROCAE Working Group 73**

UVS International strongly contributed, in close co-ordination with Eurocontrol and EASA on the European side, and the FAA and RTCA on the American side, to the start up of EUROCAE (European Organization for Civil Aviation Equipment) Working Group 73 (WG73) on unmanned aircraft systems in April 2006. UVS International continues to be strongly involved in this very important initiative.

The UVS International president is member of the working group's leadership team, standing adviser to WG73, and actively involved in the sub-group dealing with Small UAS (<150 kg).

### **Interim Working Group on Light UAS**

The Interim Working Group on Light UAS (IWGLUAS) was instigated by UVS International in September 2007 with the objective to produce a guidance document for EUROCAE WG73 on how the issue of Light UAS (<150 kg) was to be dealt with by EUROCAE WG73's Sub-Group 4 on Light UAS. The members of the IWGLUAS were: The CAAs of Austria, Belgium, The Netherlands, Sweden, UK; Eurocontrol; and industry representatives originating from Belgium, Czech Rep., France, Italy, Netherlands, Slovenia, Sweden, UK.

The final report produced by the Interim Working Group on Light UAS (IWGLUAS), instigated & lead by UVS International, was supplied to EUROCAE WG73 during its plenary meeting at Eurocontrol headquarters in Brussels, Belgium on 14 February 2008. These recommendations stated that the required work packages defined by EUROCAE WG73's Sub-Group on Light UAS should be dealt with on a national basis in the national language by national associations or working groups. It was proposed that these national associations, or working groups, are then to produce national opinion papers in English, and submit them to EUROCAE WG73's Sub-Group 4 on Light UAS, where the required harmonization will take place.

The report recommended that a limited number of representatives of each of the ICC members supplying the inputs should be active members of EUROCAE WG73 SG4 on Light UAS and meet to endeavour to harmonize the received inputs, and work towards a consensually agreed document.

This solution would make it possible for the small & medium-sized companies, which form the mainstay of the Light UAS industry, to actively participate with their expertise, in their native language, and without having to spend time & money to attend all the working meetings in Brussels, Belgium or elsewhere.

### **UAS Terms & Definitions + Abbreviations & Acronyms**

Blyenburgh & Co has created for UVS International, and the international UAV community in general, a list of English language UAS-related abbreviations & acronyms, their explanation and origin, as well as a list of UAS-related terms and definitions (where possible mentioning the source document). The purpose of this task was to create an educational reference document for persons who are not native English speakers, and to contribute to the international harmonisation of UAV terminology, which is imperative, if internationally acceptable standards, airworthiness rules and certification norms are to be defined.

The 7<sup>th</sup> edition of these documents is freely available at [www.uvs-info.com](http://www.uvs-info.com). These are living documents and will continue to grow. The international UAV community is encouraged to supply additions for both of these documents by email to UVS International.

### **UAS Categorisation**

UVS International has drawn up a categorization of unmanned aircraft systems, which permits to slot in all existing systems, as well as UAS that are currently under development. It should be noted that this categorization has not been designed for certification purposes. Its main purpose is to come up with a universal system of cataloguing UAS, combining various parameters, for reference purposes.

## **ACTIVITIES IN 2008**

### **Agreement With Indian Ministry of Defence**

In May 2008, UVS International was invited by the Indian Ministry of Defence, Defence Research & Development Organization, Aeronautical Development Establishment, to come to India to discuss the co-organization of the 1<sup>st</sup> national Indian UAS conference. This conference, designated ICAUV 2009, was to take place in Bangalore, India in April 2009.

### **UAS 2008 Conference**

The 10<sup>th</sup> edition of UVS International's annual conference, UAS 2008 (70 speakers), took place at the Docks Event Centre in Paris, France on 10-12 June 2008. A photographic review of this event, as well as the presentations given, are posted on [www.uvs-info.com](http://www.uvs-info.com)

### **Arctic Observation with UAS**

In June 2008, discussions started with the National Oceanographic & Atmospheric Agency, USA relative to global climate change and the potential concerted use of Light UAS by the Arctic Council countries (Canada, Denmark, Finland, Iceland, Norway, the Russian Fed., Sweden, USA) for Arctic monitoring purposes. From these discussions emerged a progressive UVS International advocacy and awareness-increasing strategy, which included the association's implication in:

- UVS-Tech 2009 in Moscow, Russian Federation;
- 4<sup>th</sup> Trans-Atlantic UAS Roundtable in Washington, DC, USA;
- A special session on this topic at the UAS 2009 conference in Paris, France.

These activities will be continued and will be coordinated with the scientific & government authorities of the countries involved.

### **Eurosatory 2008**

In 2008, UVS International was, for the second time in a row, partnered with COGES, the organizers of Eurosatory, the world's largest army equipment & aviation exhibition, which took place in Paris, France on 16-20 June 2008. The UVS Forum, organized by UVS International at this world class event, featured exhibition booths, a briefing section and a meeting area. The UVS Forum focused attention on micro, mini & tactical UAS, as well as unmanned ground vehicles (UGV).

The UVS Forum also featured the indoor demonstrations of UGV systems (<150kg) on a dedicated indoor area equipped with an obstacle course, which had been designed and organized by the French Ministry of Defence (DGA). The UGV

demonstrations were one of Eurosatory's largest crowd gatherers (250-430 persons per demonstration).

### **1<sup>st</sup> UAS Conference in China**

With the intent of contributing to maintaining safety in Chinese airspace, and within the framework of its Global Access Initiative and international harmonisation, UVS International accepted an invitation from International Aviation Group, China to co-organise and chair UAS China 2008, the 1<sup>st</sup> national Chinese UAS conference.

As contribution to the organization of this event, UVS International endeavoured to make it possible for the Chinese regulatory authorities and UAS community to be made aware of the ongoing international regulatory work pertaining to UAS.

UVS International's goal was to contribute to motivating the CAA of China to recognise that they have to start preparing for admitting UAS into Chinese non-segregated airspace.

The 2-day UAS China 2008 conference took place in Beijing, China in September 2008 and drew 423 delegates. Half of the speakers (regulatory authorities, researchers & industry) were brought on board by UVS International. UVS International gave 3 presentations, including one on behalf of EUROCAE.

### **Strategic Partnership Agreement with China**

During the UAS China 2008 conference in September 2008, UVS International signed a strategic partnership agreement with International Aviation Group, China. Within the framework of this agreement the parties will jointly strive to:

- Implicate the Chinese authorities in the regulatory initiatives being undertaken by the global UAS community;
- Improve awareness within the Chinese UAS community (government & industry) concerning the ongoing international activities relative to UAS-related standards, rules & regulations;
- Promote active Chinese industry implication in these activities;
- Work towards goals of common interest relative to unmanned systems.

Possibly as a result of the message brought over by UVS International during this event, the Chinese civil aviation authority has now joined the ICAO UAS Study Group.

### **International Test Range Directory**

In October 2008, UVS International instigated the International Test Range Directory initiative. This initiative has as objective to create a new open and free access web site, which will reference the world's flight test and evaluation ranges. In cooperation with several ranges, a very comprehensive test range description and categorization form has been produced and is posted on [www.testranges.org](http://www.testranges.org).

This web site has as purpose to not only reference test ranges, but also to make it possible to compare their facilities and the services they offer.

### **Regulatory Workshop at UVS Canada Conference**

UVS International organized & chaired a regulatory workshop at the UVS Canada 2008 conference in Ottawa, Canada on 4-7 November 2008.

### **Award Received from UVS Canada**

During its 2008 conference, UVS Canada presented UVS International with its 2008 Organizational Award, in recognition

of its UAS-related organizational activities.

### **Study Contract Received from French Ministry of Interior**

On November 6, 2008 the French Ministry of Interior, Direction Générale de la Police Nationale, Services des Technologies de la Sécurité Intérieur, notified (subsequent to a public tender) the award of a study contract to UVS International. This study concerned the analysis of the French legal framework relative to the use of Light UAS (<150 kg) by the French Homeland Security forces and included the following:

- A detailed analysis of the existing legal framework and the proposal of a solution that will permit the operation use of Light UAS by the French Homeland Security forces;
- Technical guidelines on how to deploy a Light UAS and be in conformity with the current French regulations;
- A proposal concerning the adaptation of the current French regulations in the medium term in order to permit generalization of the operational use of Light UAS by the French Homeland Security forces.

UVS International, the prime contractor, conducted this study in cooperation with UAS Consulting & Services, France, its sub-contractor for this contract. UVS International is proud to have been selected by the French Ministry of Interior to conduct this study.

### **Trans-Atlantic UAS Roundtable**

Within the framework of its Global Access Initiative, UVS International organized, together with The European Institute, and participated in the 3<sup>rd</sup> Trans-Atlantic UAS Roundtable in Washington, DC, USA on 10 November 2008. The theme of this event was «Security-related UAS Applications». The purpose of this on-invitation-only event is to improve high level trans-Atlantic understanding and forge trans-Atlantic links.

### **2008 UVS News Flash**

During 2008, and within the context of the Global Access Initiative, 19 editions of the UVS News Flash & 5 special editions were published (in total 944 pages) and sent out by email. All are posted on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com)

## **ACTIVITIES IN 2009**

### **UVS-Tech 2009 Conference & Exhibition in Russia**

In September 2008, UVS International was invited by the Ministry of Industry & Trade of the Russian Federation, through Expo-Ecos Ltd, to contribute to the organization of the UVS-Tech 2009 conference by organising presentations concerning international UAS-related regulatory work and research applications.

This successful national event took place in Moscow on 27-29 January 2009. A photographic report & the presentations given English can be found on [www.uvs-info.com](http://www.uvs-info.com)

### **Spain - ISR 2009 Conference**

Within the framework of the Global Access Initiative, UVS International accepted an invitation to give a key note address at ISR 2009, the 40th International Symposium on Robotics. This event was organised by AER-ATP, Spain and took place in Barcelona, Spain on 10-13 March 2009.

### **France - Export Regulations Symposium**

On 17 March 2009, UVS France organized, in co-operation

with UVS International, and with the participation of all the relevant competent French governmental authorities, a symposium dealing with French export regulations pertaining to unmanned systems in Paris, France.

In the morning session the French authorities presented and explained the French export regulations relative to unmanned systems (air, ground, naval) at systems & sub-systems & critical component level, as well as services for & services with unmanned systems.

The afternoon session was dedicated to generic case studies with which the participants could identify. The objective of this event was to inform small & medium-sized French enterprises on the existing export regulations & the upcoming changes, and increase their awareness of the legal risks of not complying with these regulations. The presentations given are posted (in French) on [www.uvs-info.com](http://www.uvs-info.com)

### **Switzerland - 1<sup>st</sup> Swiss UAS Day**

On 27 March 2009, the Ecole Polytechnique Fédérale of Lausanne organized the 1st Swiss UAS Day. This event brought together the majority of the Swiss companies involved with UAS at system and sub-system level. Within the framework of the Global Access Initiative, UVS International participated in this symposium.

### **India - 1<sup>st</sup> National UAS Conference & Exhibition**

In May 2008, UVS International was invited by the Indian Ministry of Defence, Defence Research & Development Organization, Aeronautical Development Establishment, to co-organize the 1<sup>st</sup> national Indian UAS conference. The ICAUV 2009 conference & exhibition took place at the Eagleton Golf Resort in Bangalore, India on 3 & 4 April 2009.

This event celebrated the Aeronautical Defence Establishment's 50<sup>th</sup> anniversary and was organized by the Indian Min. of Defence, Defence Research & Development Organization (DRDO), Aeronautical Defence Establishment (ADE), in partnership with UVS International. A photographic report & some of the presentations given can be found on [www.uvs-info.com](http://www.uvs-info.com)

### **Abu Dhabi - Middle East UAS Summit**

UVS International supported & chaired the 1<sup>st</sup> UAS Summit Middle East 2009, which took place at the Meridien Hotel, Abu Dhabi, United Arab Emirates on 19-20 April 2009. The presentations given are posted on [www.uvs-info.com](http://www.uvs-info.com)

### **UAS Photo Competition**

The winners of the 2009 edition of the UAS photo competition organised by UVS International were published in the 2009 edition of the UAS Yearbook, posted on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com), and were exhibited at the UAS 2009 conference.

### **France - UAS 2009 Conference, Workshop & Exhibition**

The 11<sup>th</sup> edition of UVS International's annual UAS conference & exhibition took place in Paris, France on 9-12 June 2009. With 105 presentations by speakers from 18 countries, UAS 2009 is now the world's largest conference dedicated to UAS.

UAS 2009 featured a special 1-day plenary session on regulatory matters, a special half day session on Arctic observation using UAS, and a 1-day workshop on Light UAS

(<150 kg).

### **Survey on Light UAS Non-Military Applications**

In June 2009 UVS International was requested by the European Commission (EC), Directorate General Transport & Energy to conduct a world-wide survey on the current non-military applications of Light UAS (<150 kg).

The results of the survey were officially presented to the EC at the Hearing on Light UAS that was organized by the EC in Brussels, Belgium on 8 October 2009. The results of this survey are posted on [www.uvs-info.com](http://www.uvs-info.com)

### **European Commission Hearing on Light UAS**

The EC's first-ever hearing on Light UAS took place in the offices of Directorate General Transport & Energy in Brussels, Belgium on 8 October 2009. The purpose of this hearing, which was attended by 49 representatives of the European Light UAS community, was to make the EC aware of the size and broad span of the European Light UAS community and the currently ongoing Light UAS Operations. In the morning, 12 testimonials were given by current Light UAS operators (non-military - governmental, commercial, research). During the afternoon the way forward was discussed, and questions from the floor were replied by the EC representatives. The EC's report of this event, including its conclusions and recommendations, are published in the 2010 edition of the UAS Yearbook (UAS: The Global Perspective), which is also posted on [www.uvs-info.com](http://www.uvs-info.com).

UVS International is proud to have been requested by the EC to contribute to the organization of this historic event.

### **ICAO's Global ATM Forum on Civil/Military Co-operation**

UVS International was invited by the International Civil Aviation Organization (ICAO) to participate and support the first Global Air Traffic Management Forum on Civil/Military Cooperation, which took place at ICAO headquarters in Montreal, Canada on 19-21 October 2009. This was the first time in ICAO history that ICAO hosted a civil military plenary meeting, and it was the first time that UAS were an official agenda item at an ICAO plenary meeting. UVS International is proud to have been part of the organizing team and to have been invited to be the moderator of the session on UAS at this historic event.

### **Austria - UAS: Towards Civil Applications**

On 10 November 2009, the Austrian Ministry for Transport, Innovation and Technology organized this first Austrian national UAS conference at the Joanneum University in Graz, Austria. This event, which was supported by UVS International, brought the Austrian UAS community together for the first time and discussed the potential opportunities and best way forward. UVS International had been invited to give a keynote address on international UAS activities and the Global Access Initiative.

### **UVS International's Presence at Milipol**

UVS International had the privilege of sharing a stand with COGES, the Eurosatory organizers at the 25<sup>th</sup> Milipol exhibition, one of the world's largest homeland security exhibitions, which took place in Paris, France on 17-20 November 2009.

### **Norway - UAS Nordic 2009 Conference**

This successful national conference was organized by Flight Operational Forum and UAS Norway with the support of UVS

International and took place at the Quality Hotel Gardermoen in Oslo, Norway on 8 November 2009. This conference brought the entire Norwegian UAS community (governmental & non-governmental) together and focused on current & future UAS activities. UVS International had been invited to give a keynote address on international UAS activities and the Global Access Initiative.

### **2009 UVS News Flash**

Within the context of the Global Access Initiative, 16 editions of the UVS News Flash and 4 special editions (in total 753 pages) were published and sent out by email in 2009. All are posted on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com)

## **ACTIVITIES IN 2010**

### **ICAO UAS Study Group Meets in South Africa**

In February 2010, the ICAO UAS Study Group held, on invitation of the South African CAA, a working meeting in Johannesburg at the facilities of CSIR (Council for Scientific & Industrial Research). This meeting demonstrated the importance ICAO places on the African continent and made it possible to have significant implication of the South African CAA in the study group's work. UVS International participated in this working meeting.

### **Micro Companies - New Membership Category**

In March 2010, the UVS International Board of Directors unanimously agreed to create a new membership category specifically for micro companies (< 3 employees & annual turnover < Euro 100.000).

Micro companies are very often university spin-off companies with substantial technical expertise. This decision was taken in light of the European Commission's «Vision 2020 for the European Research Area» (see UAS Info Section on [www.uvs-info.com](http://www.uvs-info.com)). The intent is to give these micro companies a means of expressing themselves, making themselves known and communicating to the larger companies in the field of unmanned systems technology.

### **Singapore - Defence Summit Asia 2010**

Within the framework of the Global Access Initiative, UVS International was partnered with K2B International, Singapore, which organized, with the support & participation of UVS International, the 1<sup>st</sup> international conference on military robotics Singapore on 2-4 March 2010.

### **Spain - UNVEX'10 Conference**

Within the framework of the Global Access Initiative, UVS International was partnered with IDS, Spain, which organized, with the support & participation of the Spanish Ministry of Defence, Asociacion Espanola de Empresas Tecnologicas de Defensa, Aeronautica y Espacio, the 2<sup>nd</sup> national Spanish UAS conference & exhibition in Madrid on 2-4 March 2010.

### **Czech Rep. - AVBS Conference on UAS**

Within the framework of the Global Access Initiative, UVS International was partnered with AVBS, the Czech unmanned systems manufacturers association, to organize the 1<sup>st</sup> national Czech UAS conference in Prague on 17 & 18 March 2010.

## **Russia - UVS-Tech 2010 Conference & Exhibition**

UVS International had again partnered with Expo-Ecos Ltd, to co-organize the UVS-Tech 2010 conference and exhibition, which took place in Moscow, Russian Fed. on 30 June-4 July 2010. A presentation on the global UAS situation was given by Alexander Koldaev (member of the Board of Directors) on behalf of UVS International.

## **France - UVS Forum at Eurosatory 2010**

Subsequent to their successful partnerships in 2006 & 2008, UVS International once again entered into a partnership with COGES, the organisers of Eurosatory, the world's prime land forces & army aviation & homeland security equipment exhibition, which took place at the Paris-Nord Villepinte exhibition center (just north of Paris, France) once every two years.

The Eurosatory Exhibition took place on 14-18 June 2010. Within the framework of this partnership agreement UVS International organised the UVS Forum, which was dedicated to unmanned aircraft systems (UAS) and unmanned ground vehicle (UGV) systems, as well as sensors & other related sub-systems applicable to either type of system.

The UVS Forum, the largest technology cluster at the Eurosatory exhibition included:

- 2 fully equipped & soundproofed conference halls (500m<sup>2</sup>);
- A food & beverage & social gathering area;
- A combined UAS & UGV exhibit area.

## **UAS Photo Competition**

The winners of the 2010 edition of the UAS photo competition organised by UVS International were published in the 2010 edition of the UAS Yearbook, posted on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com), and were exhibited at the UAS 2010 conference.

## **France - UAS 2010 Conference**

UAS 2010, this year's edition of UVS International's annual international conference on unmanned aircraft systems and related sub-systems took place on the UVS Forum at Eurosatory 2010. The conference had two tracks, which ran in parallel; in total 73 presentations were given by speakers from 6 international organizations, 3 international associations, and 20 countries. The event was concluded by two inter-active workshops [UAS for Atmospheric (volcanic ash) Sensing & UAS Pilot Qualification, Training & Certification], which resulted in two position papers with recommendations that were remitted to the European Commission for their consideration.

## **European Commission's UAS Conference**

On 1 July 2010, the European Commission, Directorate General (DG) Mobility & Transport organised, in co-operation with the European Defence Agency, and in co-ordination with DG Enterprise and DG Research a high level UAS conference. This event had as purpose to create high level European political awareness of the technologies relative to unmanned systems and their importance for the future. The conference took place in Brussels, Belgium (see: [http://ec.europa.eu/transport/air/uas\\_en.htm](http://ec.europa.eu/transport/air/uas_en.htm)).

UVS International is proud to have been invited by the EC to be a member of the conference organising committee and contribute to the organization of this historic event.

The 2010 edition of the UVS Yearbook, which included the European Commission's Report on the Hearing on Light UAS, was distributed to all attendees at this conference. All the presentations given at this conference can be found on [www.uvs-info.com](http://www.uvs-info.com).

## **France - UAV Show Europe**

Within the framework of the Global Access Initiative, UVS International agreed to give a keynote address at this national French UAS conference on Micro & Mini UAS.

This event, with associated flight demonstrations, was organised by Bordeaux Technowest at Bordeaux-Mérignac Aéroport on 15 & 16 September 2010, with the support of regional authorities.

## **UVS International Meets with EC DG MOVE**

On 12 October 2011, 5 representatives of the UVS International Board of Directors met with Daniel Calleja and Peter Sorensen, EC DG MOVE, at their offices in Brussels. The purpose of this meeting was to officially introduce UVS International and its collective expertise, and to propose its services to DG MOVE.

During this meeting, UVS International was requested to produce, free-of-charge, an advisory document, which would express an opinion relative to the High Level Group on UAS, the creation of which was announced at the EC's High Level Conference on UAS on 1 July 2010. The requested advisory document was to cover a proposed structure, an overall strategic approach, a mission statement, a proposed work methodology, as well as the topics to be covered and a report framework, and the required time-line.

This document was produced and remitted to DG MOVE in February 2011.

## **Brazil - National UAS Conference**

Within the framework of the Global Access Initiative, UVS International has agreed to participate in the national Brazilian UAS conference that was organised by DCA-BR. UVS International gave a keynote address on global UAS activities, with a particular emphasis on rules and regulations. This event took place in Sao Jose dos Campos (Sao Paulo) on 27-29 October 2010.

## **Canada - National UAS Conference**

Within the framework of the Global Access Initiative, UVS International once again participated in the regulatory session at this national event, which was organised by the Unmanned Systems Canada association in Montréal, Canada on 2-5 November 2010.

## **Norway - National UAS Conference**

UVS International again participated in this growing national event, which has strong Scandinavian links and was organised by UAS Norway in Oslo, Norway on 24 November 2010.

## **Joint EUROCAE WG73/RTCA SC203 Leadership Meeting**

Early December 2010, a Joint EUROCAE WG73/RTCA SC203 Leadership meeting took place, on invitation of RTCA SC203, at the Volpe National Transportation Systems Center, Cambridge, MA, USA. This working meeting made it possible

to find substantial areas of common ground, and to prepare the framework for an increased cooperative effort between the two organisations with clearly defined deliverables. UVS International participated in this meeting in its capacity of standing advisor to EUROCAE WG73.

### **USA - UAS TAAC 2010**

UVS International will once again participate in this leading national annual event, which brings together all the principal players in the American UAS community and was organised by New Mexico State University, Physics & Science Lab in Albuquerque, NM, USA on 7-9 December 2010.

### **Europe - Petition Letter To The European Commission**

In the beginning of August 2010, UVS International launched a petition letter initiative. This initiative was launched in reference to the statements made by European Commission (EC) representatives at the EC's conference on UAS in Brussels, Belgium on 1 July 2010 and has as purpose to give the Light UAS community [manufacturers & non-military users (governmental & commercial & research), as well as flight service providers] a way of expressing their views and expectations. This initiative was not only open to UVS International members, but also to non-members.

In December 2010, UVS International remitted the petition letter addressed the EC [Siim Kallas (Vice-President of the EC), Antonio Tajani (Vice-President of the EC), Daniel Calleja (DG MOVE), and Luc Tytgat (DG MOVE)] in December 2010. This petition was signed by 112 organizations (*5 governmental; 10 industry; 6 institutions; 2 international associations; 5 national associations; 67 SMEs; 17 academic institutions*) in 25 countries (*20 European: Austria, Belgium, Cyprus, Czech Rep., Denmark, Finland, France, Germany, Greece, Italy, Latvia, Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, United Kingdom; 5 Non-European: Brazil, Canada, Israel, Russian Fed., USA*), and 1 multi-national governmental working group; the aforementioned organisations represented a total of 2046 companies.

This petition letter received a very favourable written acknowledgement by Siim Kallas.

### **France - DGAC Advisory Committee**

In December 2010, UVS International received an invitation from the DGAC (French civil aviation authority) to become a member of a committee that is being constituted to supply advice to the DGAC relative to their proposed new rulemaking on Small UAS (<25 kg).

UVS International is proud to have been requested by the DGAC to contribute to this effort.

## **ACTIVITIES IN 2011**

### **Europe - UVS International Meets with SJU**

On 1 February 2011, 5 European members of UVS International's Board of Directors had a meeting with Patrick Ky and Denis Koehle at the offices of SESAR Joint Undertaking (SJU). The purpose of this meeting was to officially introduce UVS International to SJU and to propose making the combined experience of the association's members available to SJU, if and when SJU would require such expertise. At the end of this meeting the UVS International representatives were informed of the Call for Associate Member UAS that SJU had posted on their web that same day.

### **Russian Federation - UVS-TECH 2011**

For the 3<sup>rd</sup> consecutive year, UVS International partnered with Expo-Ecos to co-organize, with the support of the Russian Ministry of Industry and Trade and under the patronage of the Chamber of Commerce and Industry of the Russian Federation, an international 3-day UAS conference in Moscow, Russian Federation (1-3 March 2011). The presentations given at UVS-TECH 2011 will be posted on [www.uvs-tech-2011.org](http://www.uvs-tech-2011.org) (until 31 December 2011) and on [www.uvs-info.com](http://www.uvs-info.com)

Information pertaining to this event is available on [www.uvs-tech-2011.org](http://www.uvs-tech-2011.org) & [www.uvs-info.com](http://www.uvs-info.com)

### **ICAO Civil/Military Cooperation**

At its conclusion, the Global Air Traffic Management Forum on Civil/Military Cooperation (Oct. '09) recommended conducting a series of regional events to carry over the message of this Forum. This outcome was reinforced by the 37<sup>th</sup> ICAO Assembly (October 2010), which formulated Resolution A37-15, Appendix O: Coordination and cooperation of civil and military air traffic, which asked ICAO to serve as an international forum to play a role in facilitating improved civil/military cooperation and to provide the necessary follow-up activities, that build on the success of the Global Forum with the support of civil/military partners.

In March 2011, ICAO has notified UVS International that it would like to continue working with our organization in the partnership established for the organisation of the Global Forum, which included ATCA, CANSO, EUROCONTROL, IATA, FAA, Department of Defense (USA), Ministry of Transport (Germany), NATO, and UVS International, for the organisation/conduct of this regional campaign of five seminars/workshops on civil/military cooperation in all ICAO regions from 2011 to 2013.

In the planning and organisation of these five seminars/workshops, ICAO has acquired the support of a Civil/Military Informal Working Group (Civ/Mil IWG), which is composed of civil/military experts from most of the partner organisations that assisted ICAO since the inception of the Global Forum and the development of the Civil/Military Cooperation in Air Traffic Management (Cir 330).

The support of UVS International has been solicited by ICAO to plan for the regional campaign of the five seminars/workshops on civil/military cooperation. It should be noted that UAS are an integral part of ICAO's civil/military cooperation initiative.

UVS International is proud to have been recognized as a representative of the international UAS community, and to have been selected by ICAO to contribute to this important global effort.

### **New UAS Blog**

In February 2011, Blyenburgh & Co, in partnership with the English company AMC, started up UAS Vision ([www.uasvision.com](http://www.uasvision.com)). This is an independent global forum for the UVS International members and the international UAS community. It is totally dedicated to supplying, on a daily basis, breaking news and pertinent information relative to UAS. This blog offers a free Daily News Alert, for which anyone can register on the blog.

### **UVScope**

Blyenburgh & Co is intending to start the publishing of a quarterly technically informative electronic magazine called

UVScope for UVS International and the international unmanned systems community. This publication will contain first-time articles (no re-publications) from various sources on ongoing developments and technical matters pertaining to unmanned aircraft, ground & naval vehicle systems (at system & sub-system levels), their current & future use, as well as relevant regulatory issues. Each issue will also feature company profiles and technical papers proposed by international academia.

It is the intention to institute a peer review board, which will permit the authors of academic submissions to obtain the sought after credits and which should make this publication attractive to the academic community. The initial circulation will be approximately 14.000 in 68 countries. This publication will be supplied free-of-charge to all persons in the UVS International database.

Persons desiring to receive UVScope are advised to log on to [www.uvs-international.org](http://www.uvs-international.org) or [www.uvs-info.com](http://www.uvs-info.com). They will subsequently automatically receive UVScope. For information on the advertising opportunities in the highly targeted UVScope, contact UVS International or Blyenburgh & Co.

UVScope will also be available on-line on [www.uvs-info.com](http://www.uvs-info.com)

### **New Web Sites Announced**

On 1 April 2011, after considerable work and multiples hurdles, the totally new editions of [www.uvs-international.org](http://www.uvs-international.org) and [www.uvs-info.com](http://www.uvs-info.com) went on-line. The new web sites are much more user-friendly and their UAS & UGV related libraries (brochures, product datasheet, regulatory documents, white papers, studies, photos (products & events) has been greatly increased in volume. All previous editions of the UAS Yearbook are now available on-line. There are also multiple additional new features.

### **Europe - European Commission's UAS Initiative**

In follow-up to the high level UAS conference that it organised on 1 July 2010, the European Commission, Directorate General Enterprise & Industry (DG ENTR) and Directorate General Mobility & Transport (DG MOVE), have launched, in lieu of the earlier announced High Level Group on UAS, an initiative, which should provide it with the necessary expertise and input to develop a strategy for the future of UAS in the European Union, and to identify the most pressing issues which today hinder the emergence of a UAS market.

In order to collect the necessary information and input, the European Commission is setting up a process involving relevant experts from aviation rulemaking bodies and industry and inviting them to share their knowledge on the subject of UAS insertion into civil managed airspace. For this purpose the European Commission is organising a series of meetings, which will be co-chaired by DG ENTR and DG MOVE, and will also involve other European Commission services (DG HOME, DG RTD, DG INFSO). It is the intention to organise five workshops (each dedicated to a specific topic) over the period ending December 2011, and a wrap-up meeting in January 2012.

A first preparatory meeting took place at DG ENTR in Brussels, Belgium on 27 May 2010. At this meeting Daniel Calleja (DG ENTR) and Matthew Baldwin (DG MOVE) explained the objectives, and described the proposed process; the expected contributions from the invited stakeholders and a discussion on the main subjects to be addressed and the possible structure of the final report took place.

The official announcement of the creation of the EC UAS Panel and its objectives was made by Daniel Calleja at a meeting that took place at the Paris Airshow on 23 June 2011.

UVS International is proud to have been invited by the DG ENTR and DG MOVE to contribute to this effort.

### **UAS Photo Competition**

The winners of the 2011 edition of the UAS photo competition organised by UVS International are published in this year's edition of the UAS Yearbook, on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com), and were announced at the UAS 2011 conference.

### **France - UAS 2011 Conference & Exhibition**

UVS International held the 13<sup>th</sup> edition of its annual international UAS conference and exhibition in Paris, France on 14-16 June 2011 (the week preceding the Paris Air Show).

All information on this event is available on [www.uas2011.org](http://www.uas2011.org) & [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com)

### **EC UAS Panel - 1st Workshop**

The EC UAS Panel's first workshop was held at Eurocontrol in Brussels, Belgium on 12 July. This workshop, entitled «UAS Industry & Market Issues» was organised by Peter van Blyenburgh, with the support of FRONTX and the Kent Police, UK. All the presentations given at this workshop, as well as the workshop discussion paper can be found on [www.uvs-info.com](http://www.uvs-info.com). Four additional workshops will now follow.

### **NAM/CAR/SAM Civil/Military Cooperation Seminar/Workshop**

The ICAO NAM/CAR/SAM Civil/Military Cooperation Seminar/Workshop took place at the «Escuela Superior de Guerra Aerea» in Lima, Peru from 16 to 19 August 2011. This seminar/workshop had been convened by the International Civil Aviation Organization (ICAO), in partnership with the Civil Air Navigation Services Organisation (CANSO), the European Organisation for the Safety of Air Navigation (EUROCONTROL), the International Air Transport Association (IATA), the Federal Aviation Agency (FAA) & the Department of Defence (DoD) of the United States, the Germany Ministry of Transport, the North Atlantic Treaty Organization (NATO) and UVS International.

### **China - AVIC Cup**

UVS International has been invited to be the overseas partner of the AVIC Cup – International UAV Innovation Grand Prix. The AVIC Cup (Sept 23 – 25, 2011) is being organized by the Aviation Industry Corporation of China (AVIC) and the Chinese Society of Aeronautics & Astronautics (CSAA) at the China Aviation Museum in Beijing, in celebration of the 60<sup>th</sup> anniversary of China's aviation industry. AVIC Cup Integrates the Grand Prix (includes the Creativity & Athletics Grand Prix) with a UAS flying demonstration & exhibition. The total award money for the Grand Prix is RMB 2,650,000 (approx. US\$ 378,000).

As overseas partner UVS International contributed to the information dissemination concerning this event and was involved with the sale of exhibition stands.

All relevant information is posted on [www.uas-China-2011.org](http://www.uas-China-2011.org)

### **Brazil - 1<sup>st</sup> Latin American UAS Conference**

UVS International is partnered with DCA-BR to co-organize,

with the support of Brazilian governmental authorities, an international 3-day UAS conference in Brazil (25-27 October 2011). This conference is expressly being organised for the budding South American UAS market and has as purpose to promote international cooperation in the fields of regulatory matters & UAS production.

All information pertaining to this event is available on [www.uas2011-latin-america.org](http://www.uas2011-latin-america.org) & [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com)

## **ACTIVITIES IN 2012**

### **India - ICAUV 2012**

In February 2011, UVS International was invited by the Indian Ministry of Defence, Defence Research & Development Organization, Aeronautical Development Establishment, to co-organize & promote the 2<sup>nd</sup> national Indian UAS conference. The ICAUV 2010 conference & exhibition will again be a residential conference (all speakers & delegates are housed at the conference venue) and will again take place at the Eagleton Golf Resort in Bangalore, India in February 2012.

UVS International is proud to have been selected by the Indian Ministry of Defence for the second time in a row to partner with it for the organisation of this importance national event.

All relevant information will be posted on [www.icauv-2012.org](http://www.icauv-2012.org) & [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com).

### **UAS 2012**

The association's annual UAS conference and exhibition will take place in Paris, France on 5 & 6 & 7 June 2012.

### **Eurosatory 2012**

UVS International has been invited, for the forth time in a row, to partner with COGES, the organizers of Eurosatory, the world's largest army equipment, army aviation and homeland security exhibition, which will place in Paris, France on 11-15 June 2012. The UVS Forum, to be organized by UVS International at this world class event, will feature exhibition booths, a briefing section and a meeting area. The UVS Forum will focus attention on micro, mini & tactical UAS, as well as unmanned ground vehicles (UGV). As in 2008, the UVS Forum will also feature indoor demonstrations of UGV systems (<150kg) on a dedicated indoor area equipped with an obstacle course.

### **Event Organization Assistance**

UVS International welcomes enquiries from national and international associations, organizations and government authorities interested to discuss collaboration relative to the organization of unmanned systems related events (conferences & exhibitions).

### **The Future**

UVS International's primary focus is currently very clearly on UAS-related airworthiness, certification and air traffic management issues. As indicated earlier on, the problems associated with these issues should not be seen only on a European, American, Australian, South African or Japanese level, but on a global one. The association is striving to play an international advocacy and federating role in order to tackle the problems associated with inserting UAS into non-segregated airspace and to be instrumental to making it

possible to harmonise the various national & international approaches at the earliest possible stage.

## **Unmanned Ground Vehicle Systems**

In addition, UVS International is now endeavouring to undertake steps to federate the international unmanned ground vehicle (UGV) systems community. There is the intention to bring out the UGV Yearbook (UGV Systems: The Global Perspective). The UGV Info Section on [www.uvs-info.com](http://www.uvs-info.com) gives an overview of the work that has already been accomplished by the association in preparation for this publication.

## **Continued Outreach to the International UVS Community**

In the context of the aforementioned, and within the context of its Global Access Initiative, UVS International will continue to reach out, to all stakeholders, associations and organizations dedicated to furthering unmanned systems and their safe utilisation.

## **External Relations & Recognition**

UVS International is internationally recognised by numerous government authorities (civil & military), and a significant number of other organizations, as an impartial representative and advocate of the UAS industry.

The association currently maintains relations of various nature with the following stakeholder organizations:

- Aerospace & Defence Manufacturers Association of Europe (ASD);
- Aerospace Industries of America (AIA), USA;
- Air Navigation Services Providers in numerous countries;
- Air Traffic Control Association (ATCA), USA;
- American Institute of Aeronautics & Astronautics (AIAA), USA;
- ANFR (French National Frequency Agency);
- Arctic Council UAS Expert Group;
- Association of Chief Police Officers (ACPO), UK;
- Atlantida Consortium, Spain;
- Australian Certified UAS Operators Association (ACUO), Australia;
- Australian Research Centre for Aerospace Automation (ARCAA), Australia;
- Australian UAS Academy (AUASA), Australia;
- ASTM International, USA;
- ASTRAEA, UK;
- AVBS-Unmanned Systems Manufacturers Association, Czech Rep.;
- Bordeaux TechnoWest Technology Centre, France
- British Model Flying Association, UK;
- CAA, UK;
- CANSO (Civil Air Navigation Services Organization);
- Civil Aviation Safety Authority, Australia;
- Civil aviation authorities in numerous countries;
- COGES (organizers of the Eurosatory exhibition);
- Conseil Général de l'Armement (CGArm), France;
- Council for Scientific & Industrial Research, (CSIR) S. Africa;
- Department of Defence, Policy Board on Federal Aviation, USA;
- Deutsche Flugsicherung (DFS), Germany;
- DGAC, France;
- Europe Air Sports Association, The Netherlands;
- European Aviation Safety Agency (EASA);
- EUROCAE, France;
- EUROCONTROL, Belgium;
- EUROCONTROL Experimental Centre, France;
- European Cockpit Association (ECA);

- European Commission - DG Enterprise;
- European Commission - DG Mobility & Transport;
- European Commission - DG Research;
- European Commission Joint Research Centre;
- European Commission UAS Panel;
- European Defence Agency (EDA);
- European Group of Institutes of Navigation (EUGIN);
- European Institute, Washington, DC, USA;
- European Micro UAS Competition;
- European Space Agency (ESA);
- European Unmanned Systems Centre (EuroUSC), UK;
- Federal Aviation Administration (FAA), USA;
- Federal Ministry of Interior, Germany;
- Flemish Inst. for Technological Research (VITO), Belgium
- FRONTEX, European Union Agency for Border Protection;
- International Council of Aircraft Owners & Pilots Associations (IAOPA);
- International Federation of Air Traffic Controllers Ass. (IFATCA), Canada;
- International Federation of Airline Pilots Associations (IFALPA);
- International Civil Aviation Organization (ICAO), Canada;
- Inspectie Verkeer & Waterstaat (CAA), The Netherlands;
- Japan Aerospace Exploration Agency (JAXA), Japan;
- Japan UAV Association (JUAV), Japan;
- Joint Authorities for Rulemaking on Unmanned Systems (JARUS);
- Korea Aerospace Research Institute, South Korea;
- Korea UVS, South Korea;
- MIDCAS Consortium, Europe;
- Ministries of Defence in numerous countries;
- Ministries of Interior in numerous countries;
- NAMSA, Luxembourg;
- National Aeronautical & Space Administration (NASA) Dryden Flight Research Center, USA;
- National Oceanic & Atmospheric Administration (NOAA), USA;
- National Police Forces in various countries;
- NATO Air Traffic Management Committee;
- NATO C3 Agency, The Netherlands;
- NATO FINAS;
- NATO Joint Air Power Competence Centre (JAPCC);
- NATO Joint Capability Group on UAV;
- NATO Research & Technology Organization;
- NMSU-PSL-TAAC, USA;
- Northern Research Institute (NORUT);
- Netherlands Association of Aeronautical Engineers' (NVvL) Network for Unmanned Aviation, The Netherlands;
- Pégase Regional UAS Competence Centre, France;
- PLATINO Consortium, Spain;
- Remote Control Aerial Photography Association (RCAPA), USA;
- Royal Institute of Navigation, UK;
- Royal Netherlands Police;
- Royal United Services Institute (RUSI), UK;
- RTCA Special Committee 203, USA;
- SAE International, USA;
- SESAR Joint Undertaking;
- SIGAT Consortium, Europe;
- Transport Canada, Canada;
- UAS Brazil (national trade association being constituted);
- UAS Finland, Finland (national trade association being constituted);
- UAS Italy (national trade association being constituted);
- UAS Norway (national trade association), Norway;
- UATAR, Australia (national working group);
- UAV DACH (German-language association), Germany;
- UAV National Industry Team, (UNITE), USA;
- UAV(S) Center, South Korea;
- UAVS (national trade association), UK;

- Universities & academies in numerous countries;
- Unmanned Systems Canada (national trade association);
- US Department of Transportation, Volpe National Transportation Systems Center, USA;
- UVS France (French national trade association), France;
- Welsh Assembly Government, UK;
- West Wales UAV Centre, UK.

### Advantages of UVS International Membership

UVS International provides its corporate members with:

- Voting rights at the General Assembly relative to the election of the Board of Directors;
- Preferential attendee/exhibitor rates at its annual conferences;
- Preferential attendee & exhibitor rates at various international conferences & exhibitions;
- Opportunities to participate in consolidated exhibits at prime international exhibitions at preferential rates;
- Receipt by email of the fortnightly UVS News Flash;
- Access to all the archived UVS News Flashes posted on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com) (not accessible to non-members);
- The opportunity to supply UVS-related press releases for insertion in the UVS News Flash;
- UVScope, a free quarterly electronic technically informative magazine which will be started up in 2011;
- Opportunities to contribute with technically informative articles for UVScope;
- Opportunities to participate in and contribute to international UVS-related lobbying initiatives.
- Opportunities to network with key international industry, government and regulatory authority figures;
- Free listing of product/services brochures & datasheets, on [www.uvs-international.org](http://www.uvs-international.org) & [www.uvs-info.com](http://www.uvs-info.com) (accessible to all registering visitors - members & non-members);
- Access to the product/services brochures & product datasheets of non-members that are posted on [www.uvs-info.com](http://www.uvs-info.com) (not accessible to non-members);
- Direct hyperlink from the UVS International web site to the members' web sites;
- Free copies of the annual UAS & UGV yearbooks (quantity is in function of the membership category);
- Participation in & contribution to the Global Access Initiative;
- Free listing of member's company name, postal address and web site in the annual UAV & UGV yearbooks;
- Free distribution of members' press releases by email to the international UVS community & the international press;
- World-wide access to [www.uvs-international.org](http://www.uvs-international.org);
- World-wide access to [www.uvs-info.com](http://www.uvs-info.com);
- The possibility of participating in funded study contracts;
- Assistance in finding teaming partners and suppliers;
- Assistance with the setting up of independent national working groups or associations (our track record speaks for itself);
- Access to valuable international market information;
- International recognition.

**EVENTS UVS INTERNATIONAL CONTRIBUTED TO WITHIN THE FRAMEWORK OF THE GLOBAL ACCESS INITIATIVE**

**2009 - 2009 - 2009**

**UVS-TECH 2009 ●**

3<sup>rd</sup> International UAS Conference  
Moscow, Russia - January 27-29, 2009

**ISR 2009 ●**

40<sup>th</sup> International Symposium on Robotics  
Barcelona, Spain - March 10-13, 2009

**UAS EXPORT REGULATIONS ●**

National Conference & Workshop  
Paris, France - March 17, 2009

**1<sup>ST</sup> SWISS UAS DAY ●**

National Symposium  
Lausanne, Switzerland - March 27, 2009

**ICAUV 2009 ●**

1<sup>st</sup> International Conference & Exhibition  
Bangalore, India - April 3 & 4, 2009

**UAS SUMMIT MIDDLE EAST 2009 ●**

International Conference  
Abu Dhabi, U.A.E. - April 19-20, 2009

**UAS 2009 ●**

11<sup>th</sup> International Conference & Exhibition  
Paris, France - June 9-11, 2009

**INTERNATIONAL AVIATION SAFETY FORUM ●**

6<sup>th</sup> Annual Conference  
Washington, DC, USA - Sept 9-11, 2009

**EC HEARING ON LIGHT UAS ●**

European Commission Hearing on Light UAS (<150 kg)  
Brussels, Belgium - October 8, 2009

**GLOBAL ATM FORUM ON CIVIL/MILITARY COOPERATION ●**

1<sup>st</sup> International Civil/Military ATM Conference  
Montreal, Canada - October 19-21, 2009

**UVS CANADA 2009 ●**

National Conference & Workshops  
Victoria, BC, Canada - November 2-5, 2009

**UAS: TOWARDS CIVIL APPLICATIONS ●**

1<sup>st</sup> National Conference  
Graz, Austria - November 10, 2009

**NORDIC UAS 2009 ●**

3<sup>rd</sup> National Conference  
Oslo, Norway - November 24, 2009

**UAS TAAC 2009 ●**

11<sup>th</sup> National Conference  
Santa Ana Pueblo, NM, USA - Dec. 8-10, 2009

**2010 - 2010 - 2010**

**DEFENCE SUMMIT ASIA**

International Conference & Workshops on Military Robotics  
Singapore - March 2-4, 2010

**UNVEX'10 ●**

2<sup>nd</sup> National UAS Conference & Exhibition  
Madrid, Spain - March 2-4, 2010

**AVBS 2010 ●**

2<sup>nd</sup> National UAS Conference  
Prague, Czech Rep. - March 17 & 18, 2010

**UAS 2010 & UVS FORUM ●**

12<sup>th</sup> International Conference & Exhibition & Demonstrations  
Eurosatory - Villepinte Exhibition Centre  
Paris, France - June 14-18, 2010

**ROBOTIC INTERVENTIONS IN HOSTILE ENVIRONMENTS ●**

Fontevraud l'Abbaye, France - June 23 & 24, 2010

**UVS-TECH 2010**

4<sup>th</sup> International UAS Conference & Exhibition  
Moscow, Russia - June 30-July 4, 2010

**EUROPEAN COMMISSION'S UAS CONFERENCE ●**

Brussels, Belgium - July 1, 2010

**UAV SHOW EUROPE ●**

National Micro & Mini UAS Conference, Exhibition & Demos  
Bordeaux-Mérignac Aéroport, France - Sept. 15 & 16, 2010

**SEMINARIO INTERNACIONAL DE VANT 2010 ●**

National UAS Conference  
Sao Jose dos Campos (SP), Brazil - October 27-29, 2010

**UNMANNED SYSTEMS CANADA 2010 ●**

National Conference & Workshops  
Montréal, Québec, Canada - November 2-5, 2010

**NORDIC UAS 2010 ●**

4<sup>th</sup> National UAS Conference  
Oslo, Norway - 24 November 2010

**UAS TAAC 2010**

11<sup>th</sup> National Conference  
Santa Ana Pueblo, NM, USA - December 7-9, 2010

**2011 - 2011 - 2011**

**UVS-TECH 2011**

5<sup>th</sup> International UAS Conference & Exhibition  
Moscow, Russia - March 1-3, 2011

**UAS 2011 ●**

13<sup>th</sup> International Conference & Exhibition  
Paris, France - June 14-16, 2011

**EUROPEAN COMMISSION UAS PANEL ●**

1<sup>st</sup> Workshop  
Brussels, Belgium - July 12, 2011

**ICAO CIVIL/MILITARY ATC COORDINATION MEETING ●**

1<sup>st</sup> ICAO Regional (NAM, CAR, SAM) Informative Meeting  
Lima, Peru - August 16-19, 2011

**EUROPEAN COMMISSION UAS PANEL ●**

2<sup>nd</sup> Workshop  
Brussels, Belgium - Sept 13 & 14, 2011

**UAV-g 2011 - UAVs IN GEOMATICS ●**

International Conference & Flight Demonstrations  
Zürich, Switzerland - Sept 14-16, 2011

**AVIC CUP**

UAS Flight Competition  
Beijing, China - September 23-25, 2011

**EUROPEAN COMMISSION UAS PANEL ●**

3<sup>rd</sup> Workshop  
Brussels, Belgium - October 19, 2011

**UAS LATIN AMERICA 2011 ●**

1<sup>st</sup> Latin American UAS Conference & Exhibition  
Sao José dos Campos, Brazil - October 25-27, 2011

**ICAO UAS STUDY GROUP MEETING ●**

Montreal, Canada - Oct. 31 - Nov. 4, 2011

**UNMANNED SYSTEMS CANADA 2011 ●**

National Conference & Workshops  
Halifax, Canada - November 7-10, 2011

**UAS NORDIC 2011 ●**

5<sup>th</sup> National UAS Conference  
Oslo, Norway - November 15, 2011

**EUROPEAN COMMISSION UAS PANEL ●**

4<sup>th</sup> Workshop  
Brussels, Belgium - November 16, 2011

**RED-UAS 2011 ●**

R&D + Education Conference on UAS  
Seville, Spain - 30 Nov. & 1 Dec 2011

**2012 - 2012 - 2012**

**EUROPEAN COMMISSION UAS PANEL ●**

5<sup>th</sup> Workshop  
Brussels, Belgium - January 25, 2012

**ICAUV 2012 ●**

2<sup>nd</sup> International Conference & Exhibition  
Bangalore, India - February 24 & 25, 2012

**ICAO UAS SEMINAR ●**

1<sup>st</sup> ICAO Regional (CAR, SAM) Informative Seminar  
Lima, Peru - April 18-20, 2012

**UAS 2012 ●**

14<sup>th</sup> International Conference & Exhibition  
Paris, France - June 5-7, 2012

● The current UAS Yearbook «UAS: The Global Perspective» was or will be distributed at this event.