

Services to members

Programmes and projects for 2010 and beyond

Approved by the Council of Mayors on 8 Oct. 2009

Introduction

Being an active member of the Community of Ariane Cities carries some responsibilities and also many advantages and privileges. This document outlines the services and privileges granted to the members. The term „member“ refers to the tandem composed by a local or regional administration (in most cases a city council) and an industrial company or industry association (in most cases an Ariane programme contractor) located in the territory of the said administration.

The services and privileges are classified in several categories, in chapters 1 to 8. Chapter 9 describes some new activities to be launched in 2010, which were approved by the Council of Mayors on 8 October 2008.

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1. Sending participants to CVA's educational programmes

1.1. Scientific Holidays

Any member city can send two high school students (aged 15 to 17) per year to the itinerant Scientific Holidays, hosted in the summer by a different CVA member city. The programme usually takes **10 days** and includes intercultural training, non-formal learning about European cooperation in Space and benefits of space research and industrial activity, hands-on workshops on model rocket construction, astronomy or similar topics. In addition, the programme includes visits to local industry or research facilities, and cultural and sports activities.

The CVA, in cooperation with professional associations specialized in intercultural and scientific education, organizes the programme, accommodation, meals and local transportation. The travel costs to the host city, plus a small participation fee are covered by each participant or, in some cases, by their City Council or Ariane industry member.

The 2010 Scientific Holidays will be hosted by the City of Madrid Cercedilla, a village on the beautiful „La Sierra“ hills north of the city. During the same period and the same place, a summer camp on Space will be organized by INTA, the Spanish National Aerospace Laboratory. Both programmes will benefit from the synergies of being held simultaneously.

1.2. Intercultural Seminars

Any active member can apply to participate in a series of Intercultural Seminars. This involves **three cities each hosting a one-week seminar for 30 high school students aged 15 to 17**. Each of the three participating cities selects 10 students to attend the programme, which consists of one stay of one week days in each city, spread over one school year.

The programme includes intercultural training, non-formal learning about European cooperation in Space and the economic, technology and social benefits of space research and industrial activity. In addition, participants work in groups to develop a project to reach out to the general community. The project can take the form of an itinerant poster exhibition, a CDROM or a website, for example, where the youngsters explain what they have learned about European cooperation in Space and its benefits, as well as the importance of their own city being an active player in this sector.

The Intercultural Seminars are co-funded by CVA and the French-German Youth Office (OFAJ-DFJW), and must involve each time at least one French and one German City.

For example, the 2009-2010 Seminars involve one stay in Lampoldshausen (Germany) in November 2009, one in Mulhouse (France) in March 2010 and one in Colleferro (Italy) in May 2010.

The City of Les Mureaux is considering, together with other partners in France, hosting one of the Intercultural Seminars for the 2010-2011 school year. Two more candidate cities are sought for the 2010-2011 school year.

1.3. Summer School

This **intense one-month itinerant course is open each year to 36 undergraduate and graduate engineering students, and young professionals**

from CVA member cities. The programme is usually hosted by a university in a CVA member city and has the strong support of the local Ariane industry.

Any CVA member city or industry can propose candidates to the Summer School. Their academic suitability is evaluated by CVA's collaborating professors in several universities. Students contribute with a small fee, plus their travel to the Summer School location and two meals per day. Young employees from Ariane member industry contribute with a higher, but still subsidized, participation fee.

The syllabus includes 40 hours of plenary sessions on *European Space Transportation* engineering and management, plus workshops, professional visits, intercultural teambuilding sessions and language courses. In addition, the course includes more than 50 hours of comprehensive work in teams, and a final report and a presentation in front of a evaluating jury on a topic of interest to the Ariane industrial sponsor.

CVA's Summer School has been organized each year since the inaugural session held in Bremen in the year 2000, and has so far contributed to the training of more than 300 young professionals, who are progressively taking promising positions in the European space sector. Since 2007, an alumni gathering is organised during the Summer School, allowing for fruitful networking opportunities with the students.

The 2010 Summer School will be held at the *Arts et Métiers ParisTech* engineering school in Bordeaux from 26 June to 23 July, hosted by the CVA members in Bordeaux, namely the Urban Community of Bordeaux, CNES and Safran/Snecma Propulsion Solide, in cooperation with other local partners.

1.4. Teachers' Seminars

This programme started in 2008 in Toulouse as part of the Ariane Cities Educational Network (REVA, from its French acronym), and brings together about **20 secondary school teachers of math and science for three days** to a different Ariane city. Teachers exchange their experience in the use of space as an inspiring topic when teaching mathematics and science, and follow a series of lectures and hands-on workshops to enlarge their knowledge and skills in this field. The programme includes professional visits to local industry and research facilities, and discussions with local secondary school teachers.

Any CVA member city can send teachers of math or science to the REVA seminar.

The 2010 Teachers' seminar will be hosted by the City of Bremen from 19 to 21 July, in conjunction with the yearly meeting of the Committee on Space Research (COSPAR) a major international conference. One of the main themes will be "One day without satellites: what a chaos!"

2. Hosting a CVA educational programme

Any CVA member can propose to host any of the educational programmes outlined in chapter 1 above. All these programmes have an itinerant nature, and interested members usually express their interest 1,5 to 2 years in advance. The city holding a presidency usually offers to host at least one of these programmes during the year of its presidency.

In the planning process, the host city works with the CVA General Delegation and with local partners from the Ariane industry, from space research organisations and from administration offices, so that the effort is shared and the outcome has a larger impact.

As of January 2010, the CVA is looking for candidate cities to host the educational programmes in 2011 and 2012. They should be confirmed by the Mayors Council in 2010.

3. Access to educational and employment information tools

The Ariane Cities Educational Network (REVA, from the French name Réseau Educatif des Villes Ariane) offers a very flexible and easy to use web portal where:

- a catalogue on educational programmes in the aerospace field can be consulted by means of a multi-entry search tool which proves to be very useful for students, teachers and education planners alike.
- best practices on education can be exchanged,
- news and job offers can be posted, **at no expense for the CVA members and alumni.**

More details are available at CVA's website, or directly at www.education-cva.eu

4. Professional visit to the Guiana Space Centre, Europe's Spaceport

All alumni from any of the CVA educational programmes outlined in chapter 1 above are entitled to join one of the yearly professional visits to the Guiana Space Centre, Europe's Spaceport in Kourou. The five-day trip includes detailed briefings and visits to the main facilities of the spaceport: mission control, payload preparation, launchers assembly buildings and launch pads for Ariane 5, Soyuz and Vega. Informal opportunities are arranged for the group to meet with spaceport employees from different European countries, as well as with employer management to discuss about internship or employment opportunities. During the trip, some of the local cultural and natural attractions are also visited, such as Devil's Islands, Cayenne and the rainforest.

CVA alumni cover half of the cost of the programme, the other half being subsidized by the CVA budget and benefits from in-kind contributions by ESA, CNES and Arianespace. A limited number of places is **also available for representatives from CVA member organizations**, at the real cost of the trip, which is a negotiated group fare.

The 2010 visit could take place at the end of July, or at the beginning of September, for five days.

5. Taking the rotating presidency of the CVA

Any member city can apply to hold the twelve-month rotating presidency of the Association, thus benefiting from high visibility through the organization of the Council of Mayors meetings and other activities of international nature designed by the presidency city itself.

CVA's bylaws establish some rules for the candidature and decision making process of designating upcoming presidencies. The formal letter of interest must be addressed to the President of the Association at least one and a half years before the beginning of the Presidency period (i.e. by the end of June of the year N-2, for a Presidency in the year N).

There is no special fee connected with the Presidency, but it is assumed that the city holding the Presidency will host at least one of the two Council of Mayors meetings (30 to 50 participants), and at least one of the three Bureau meetings (10 to 15 participants)

during the year, providing for meeting rooms, some meals and local visits to space-related facilities.

As of January 2010, the city of Madrid has taken the Presidency for the year, and the City of Les Mureaux will take the Presidency for 2011. The City of Kourou has indicated that it will propose its Presidency for the year 2012.

6. Hosting a meeting of the Council of Mayors

Usually, the Council of Mayors meets twice a year in a member city (once in the spring, once in autumn) to discuss and decide on programmes, budget, memberships and upcoming presidencies. **Any city can propose to host one of the Councils**, but the city holding the Presidency has priority and this should therefore be discussed well in advance with the city holding the Presidency. The number of participants varies between 30 and 50 people.

7. Organizing a city-launcher partnership

Any member city can propose a partnership with an Ariane 5 launch, which allows **the name of the city to appear on the upper part of the launch vehicle**, and a short video on the city to be included in the official launch broadcast. Interested cities are expected to prepare a communication and outreach plan, both at home and in French Guiana, to be carried out around the date of launch.

The communication plan typically includes a live broadcast event at the host city, open to the general public, and the traditional planting of a palm tree named after the partner city, next to the Jupiter mission control complex in Kourou. Other activities, such as public lectures and exhibitions on space can also be part of the outreach plan.

A delegation from the partner city is expected to travel to French Guiana for the launch, including two alumni from CVA's educational programmes. The city's fee for the launcher partnership is used by the CVA to cover the travel costs of the two alumni.

8. Professional or outreach events, taking advantage of CVA's network

Each year, many member cities organize a variety of events, in collaboration with local industry, research or cultural players. Any member, and not only the city holding the Presidency, is welcomed to organize events of cultural, educational or outreach nature to highlight the local space activities and their benefits on employment, education, economy, etc. The CVA General Delegation and the CVA network at large are at the city's disposal to **help with ideas, contacts with expert lecturers or specialized organizations**, in the planning and execution of the events.

There are many examples of events organized at the initiative of CVA member cities, and they are open to the attendance of any member of the Association. The following are just a few illustrations:

- An astronauts' event, in collaboration with the European Space Agency;
- A school contest to select the participants to CVA's Scientific Holidays or Intercultural Seminars;
- An international conference on the Future of Space Programmes;
- A European Space Technology Transfer Forum;
- A roundtable on space transportation policy.

- An exhibition on the 50th anniversary of the launch of the first artificial satellite, or the 30th anniversary of the first Ariane launch.
- A live video broadcast of an Ariane launch, complemented by a lecture by a local (or a flown-in) expert from industry, research or administration.

9. New activities to start in 2010

The following new projects were approved by the Council of Mayors on 8 October 2009, and are budgeted to start in 2010. They will be carried out on a trial mode this year, then evaluated and eventually proposed as recurrent programmes from 2011 onwards.

9.1. Student internship at CVA's office in Paris

Located very close to the Head Office of the European Space Agency, and sharing office space with the International Astronautical Federation and the Eurisy association, the CVA General Delegation could host one student for a few months of work experience in one or more of the following specialties:

- communication and outreach;
- report drafting and layout, web design, webmaster tasks;
- event planning and organization, database management;
- translation and interpretation;
- accounting and financial reporting.

Applicants may come from any CVA member city. Additional requirements would be: to have student status and be at least 18 years of age. Good knowledge of at least one of the two CVA working languages (English and French) would be an asset. The selected student would receive a modest scholarship from the CVA during the internship period, which is expected to be of three to four months.

9.2. Training of coaches in intercultural teambuilding

Most of CVA's educational programmes need professional trainers knowing how to coach students coming from different cultures and languages and bring them to work together in a very short time. This requires special skills which are rarely offered in existing academic programmes.

Many CVA alumni value the intercultural teamwork as one of the most useful skills they learned with our Association, and recognize that it is a basic skill for any professional working in European Space programmes.

As of January 2010, the venue for this programme is still to be defined.

Participants are accepted come from any CVA member city.

9.3. Support to local Space related events in CVA member cities

A special budget is proposed to give support to the activities organized locally in CVA member cities, such as those described in chapter 8 above. The support can take the form of giving advice in the planning, in searching and flying in an expert speaker, etc.

9.4. CVA football championship in Hardthausen/Lampoldshausen

The city of Hardthausen/Lampoldshausen invites amateur soccer teams from other CVA cities to participate in the international championship planned in 2010. The CVA

sponsorship would be leveraged with that of other sponsors raised locally. The dates and conditions are to be advised.