

**z Proposal for Forming an IAA Study Group**

**SG 2.8**

**Title of Study: e-learning in Space Life Sciences**

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**Primary IAA Commission Preference: commission 2**

*(From Commission 1 to Commission 6)*

**Secondary IAA Commission Interests:1,3,4,5,6**

*(From Commission 1 to Commission 6)*

**Members of Study Team**

**Chairs:**

**Chrysoula Kourtidou-Papadeli,  
Gerda Horneck**

**Secretary:**

**Panagiotis Bamidis**

**Other Members (by alphabetical order):**

**Melchor.J.Antunano (USA)  
Andrea Boese (USA)  
Vincent Boles (USA)  
Ludmila Buravkova (Russia)  
Jean-Michel Contant (France)  
Mary Anne Frey (USA)  
Claudie Haigneree (France)  
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Nick Kanas (USA)  
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Chiaki Mukai (Japan)  
Christos Papadelis (Greece)  
Thais Russomano (Brazil)  
Nikolaos Spyrou (Greece)  
Dengyuan ZHUANG (China)**

### **Short Description of Scope of Study**

The aims and objectives of the study group are linked with the expansion of educational activities related to a variety of scientific areas within space medicine (and science).

#### **Overall Goal:**

- To promote cross-disciplinary collaboration in space medicine
- To report on (electronic) educational activities occurring around the globe in this scientific area
- To facilitate the utilization of contemporary platforms/environments for e-learning deployment
- To spread experiences related to conformance with educational standards
- To facilitate the e-exchange of educational digital material among educators
- To experiment with the implementation of digital copyright

#### **Intermediate Goals:**

- To conduct a survey on current use of educational digital material within associated Institutions and IAA members
- To collect all the above information in a common/shared educational environment
- To split into various thematic areas and build cross-linkages/connections
- To enable the uploading of material in the various thematic areas
- To enable the registration of interested parties (e.g. other educators, students)
- To standardize the educational material with the use of educational standards (like SCORM, HealthCare LOM)
- To experiment with the implementation of digital copyright (Creative Commons)
- To enable the exchange of educational material among educators given certain copyright schemes.

### **Methodology:**

- Search literature and study relevant other reports to elicit a draft list of needs
- Conduct an internet survey re space medicine education
- Create a study group web site, associated collaboration environment and e-learning environment
- Implement pilot e-courses and relevant tutorials for educators
- Turn digital material into SCORM compliant material
- Experiment with Creative Commons
- Upload on e-learning space
- Experiment with their interaction friendliness and easiness to use.
- Fully report on each activity

### **Time Line: 2 years**

### **Final Product (Report, Publication, etc.):**

The group will create a site (collaborative site) and an open source educational environment

The final product will be a report composed of various steps/thematic areas of the study group.

A publication in a relevant journal will be considered at the end (e.g. Acta Astronautica)

**Target Community:** initially medical students, which can be extended in all science students, teachers, universities and medical colleges, medical associations and medical doctors, as well as researchers in space medicine, and space life sciences.

**Support Needed:**

In the beginning, local hosting may be done at the Medical School of Aristotle University of Thessaloniki, Greece (hardware and software ready to go):

<http://kedip.med.auth.gr/iaa>

A welcome page and then different courses may be chosen

Username and passwords can be set

Enrolment or free attendance may be enforced / allowed

Provide specific links to/from IAA

If needed, the IAA may look for their own web hosting at a later stage, i.e. IAA server space (may need some software additions there...)

**Potential Sponsors:** Universities, Pharmaceutical companies, space agencies, space industry

*To be returned to IAA Secretariat Paris fax: 33 1 47 23 82 16 email: [sgeneral@iaaemail.org](mailto:sgeneral@iaaemail.org)*

**Date: 22.09.2008**

**Signature:**

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