



ARIADNA NEWS:

CFI 08/01

The call for Ideas **Encounter 2029**, released on 22th February 2008, has been closed on **11th April 2008**.

The Advanced Concepts Team thanks all the participants for their interest in this first Ariadna Call for Ideas on the theme of Near Earth Object (NEO) deflection and mitigation, which triggered interesting scientific ideas.

The proposals are currently following the evaluation and selection process, which will be concluded before summer.

For more details on the Call for Ideas, please visit:
<http://www.esa.int/gsp/ACT/ariadna/OpenCalls.htm>

CFP 07/01

The following study has been completed:

07/5202 Efficient Usage of Self Validated Integrators for Space Applications, extended study (6 months) in cooperation with University of Barcelona.

CFP 06/01

The following studies have been completed:

06/6201 Attaching Mechanisms and Strategies Inspired by Spiders' legs, extended study (6 months) in cooperation with University of Udine.

06/6301 Bio-inspiration from Plants' Roots, medium study (4 months) in cooperation with Scuola Superiore Sant'Anna di Pisa.

06/4101 Global Trajectory Optimisation: Can We Prune the Solution Space when Considering Deep Space Manoeuvres?, extended study (6 months) in cooperation with Ecole des Mines de Paris, University of Glasgow, Politecnico di Milano (parallel studies)

The final reports of the completed studies are all available at:

<http://www.esa.int/gsp/ACT/ariadna/completed.htm>

ARIADNA IN SHORT

With Ariadna, ESA intends to strengthen the bond between Academia and ESA by providing opportunities to collaborate and making up-to-date information available on on-going ESA studies and advanced space technology news relevant to the academic world.

Check:

<http://www.esa.int/gsp/ACT/ariadna/OpenCalls.htm>

for news or updates on coming Ariadna call for Proposals or Call for Ideas.

ACT NEWS:

NEW!! Saturn and Tandem: Test the semantic database (Beta version) with chemical trajectory options to Saturn as evaluated by various members of the Mission Analysis Working Group of the European Space Agency in April 2008.

Please visit:

<http://www.esa.int/gsp/ACT/mad/op/AdvancesInGO/SaturnDatabase/SemanticSaturn.htm>

Find our newly organized Newsroom (New page "[Subscribe](#)"), and get a better access to our news releases!

Please visit:

<http://www.esa.int/gsp/ACT/newsroom/index.htm>

ACT IN MEDIA

Article in Actu: "Insect robots for Mars Exploration", March 2008

<http://www.esa.int/gsp/ACT/doc/PRESS/Biomimetics/ACT-CLI-2008-03-Actu.pdf>

SPACE TECHNOLOGY NEWS

Periodically the European Space Agency issues Invitations to Tender (ITTs) on a broad range of subject areas and activity types, ranging from scientific and technical studies, to technology development activities or even basic infrastructure support services. A list of both upcoming and currently open ITTs can be accessed at <http://emits.esa.int/>.



CONFERENCES/EVENTS ANNOUNCEMENTS

This section contains information on conferences of relevance to advanced space technology and some of the studies we are conducting.

Announcement of Opportunity for ESA Lunar Robotics Challenge, released in the frame of ESA's General Studies Programme.

As interest in exploration of the Moon grows, ESA is challenging university students to create an innovative, mobile robot that can retrieve samples from a lunar-like crater. An Announcement of Opportunity has been released and up to eight of the best proposals will be selected for funding after evaluation by a team of ESA experts. The selected student teams will then be given the go-ahead to design their robotic systems, and eventually build them to compete in the Challenge event at an undisclosed location

More information:

<http://www.esa.int/gsp/ACT/events/events.htm>

Workshop on Solar Power Satellites: Get access to the outputs of the workshop by contacting Maria Johansson (Maria.Johansson@esa.int).

You will be provided with an access to the WIKI page of the event, containing the material and conclusions reached during the discussions held at ESTEC on 29th of February, 2008.

Information:

http://www.esa.int/gsp/ACT/events/workshops/sps_workshop08.htm

International Federation of Operational Research Societies Conference, on the theme of "*Operational Research: developing communities, managing the connections amongst them*", 13th-18th July 2008, Sandton, South Africa.

Information:

<http://www.acitravel.co.za/event/index.php?eventID=3>

Global Trajectory Optimisation Competition Workshop, in which will be presented the updated results of the ACT participation, 27th June 2008, Turin, Italy.

Information:

<http://www2.polito.it/eventi/gtoc3/>

NON-ACT CAREER OPPORTUNITIES

All universities from Ariadna's network which would like to advertise about their careers opportunities through the Ariadna's Newsletter are invited to send the corresponding information at act@esa.int

ACT CAREER OPPORTUNITIES

Research Fellowships:

The ACT is currently looking for 1 post-doctoral Research Fellow in the following field:

- Postdoctoral Research Fellowship in Informatics and Applied Mathematics
Deadline: 13th of May 2008.

Description:

<http://www.esa.int/gsp/ACT/opportunities/RF/INF2008.htm>

Stages:

The ACT is currently looking for four Stagiaires to work on the following topics:

- Web 2.0 technologies and their application to research environments
- Passive oscillation damping in booms inspired by plant stems
- Transport of nano-structured-materials in the interplanetary medium
- General Relativistic Effects in Multi-Satellite Systems

Find a preliminary description of these stages at: <http://www.esa.int/gsp/ACT/opportunities/STA/ACT-ADM-2008-StageOpportunities.pdf>

Young Graduate Traineeships:

You can also regularly check the [ESA web-site](#) for the all the YGT opportunities....

For more details on all these positions and how to apply, please visit: [ACT opportunities](#)