

Make planetary science on Earth!

project proposal

Romania and Hungary are searching for 8-12 partners in Europe

For the call:

9.2.1 Strengthening the foundation of Space science and technology
SPA 2012.2.1-01 Exploration of space science and exploration data

Why do we suggest this project:

- European Space Sciences Committee Contribution to the EU FP8
- Common Strategic Framework recommending a focus on:
 - planetary science
 - exploration
 - ground-based preparations related to the ExoMars missions

Working title:

Analog research in Europe to synthesise scientific and engineering issues

Project elements:

- field work at Mars (and Moon) analog locations
- laboratory research work
- detector, observing method development

Topics:

- analog geomorphology (geo)
- electronics, optics, development (tech)
- data acquisition (IT, engin.)
- habitats, extremophiles (bio, chem)



Questions to be answered with this project:

- how European capabilities (sci+tech)
- at analog locations/conditions
- could contribute to
- future probes development + result interpretation

Aims:

- to test and develop :
 - analog research framework (organization)
 - researcher – engineer interaction
 - interdisciplinary issues
- to identify :
 - scientific goals
 - where engineers + scientists gain results



Possible locations:

- Svalbard
 - Iceland
 - Ibn Battua
 - Reunion
 - mud volcano in Romania
- + laboratory work !!!

Interest was indicated already:
Groemer, Hauber, Järvstråt,
Kereszturi, Ori, Virgiliu...





Project details

- 3 year period
- funding for:
 - 50% salaries for members
 - 30% equipments, development
 - 15% field work realization
 - 5% meeting(s),
 - first inside Turda Salt mine

Exploratory conference at the Turda salt mine date TBD (August or September)



Who are we searching for

- scientists interested in:
 - Mars geology
 - astrobiology
 - Earth geomorphology
 - microbiology (lab work)
 - biosignatures
 - organic chemistry
- engineers:
 - detector development
 - in-situ analysis
 - planetary probe design
- research institutions
- universities
- small and medium enterprises

Field is wide, ideas and partners
are welcomed at
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