MASE LOGOS





PHOTOS



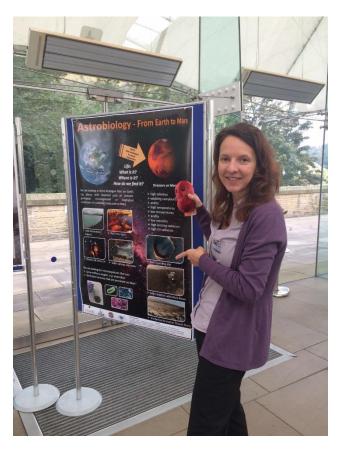
Collecting samples in Boulby Mine.



Lake Graenavatn in Iceland, one of the Mars-analogue environments that has been sampled during the MASE project.



Regensburg sulphidic spring in Germany, one of the Mars-analogue environments that has been sampled during the MASE project.



Dr. Petra Schwender participating in an outreach activity to disseminate astrobiology related topics among the general public.



The MASE team during the fieldwork campaign at Boulby Mine.



Dr. Frances Westall during the third MASE press conference at the Centre de Biophysique Moleculaire in Orleans,



Salt brine at Boulby Mine, one of the Mars-analogue environments that has been sampled during the MASE project.



 $\label{eq:mass} \mbox{MASE team during the last scientific meeting at University of Graz.}$



Collecting samples during a fieldwork campaign in the Regensburg sulphidic springs.



Overview of Mars analogue sites analyzed in the MASE project: Rio Tinto, Regensburg sulphidic springs, Lake Graenavatn and brines at Boulby Mine (from left to right).



Degassing samples during the fieldwork campaign at Boulby Mine.



Dr. Charles Cockell presenting the MASE project at the 2016 European Astrobiology Network Association.





Next year will be an exciting and occupied time for MASS time it will efficially reach its end. Upcorning activities will encompas a press conference at CNRS Orlans with a focus on fossilistion of microorganisms and how this helps to search for extratererizal life. Furthermore, a workshop will be organized in collaboration with the European Autobiology Network Association (EANA) in Asrhus which will address life from extreme environments and its use in ans-

So far, MASE has successfully achieved its objectives, disseminating their activities and results through a variety of communication platforms, establishing new collaborations within the European astrebiology community and leveraging a huge amount of science that it is in the process of being published.

huge amount of science that it is in the proces of being published. Primarily to serve the scientific community, th MASE team will deliver fundamental info

> vof. Charles Cocle MASE Coordings



From Earth to Mars, towards understanding better the red planet habitability

Assessing the habitability of Mars and detecting fifty, if it was ever there, depends on knowledge of whether the combined environmental stress soperienced on Naza are ompatible with file and whether a record of that life rould ever be detected. However, our current ability to make these assessments is hampered by a lack of knowledge of how the combined effect of different environmental stress influence the survivant agrowth of organisms. In particular, many combinations of stress, such as high radiation conditions combined







MASE > MASE attending ABSCICON 2017

on producing scientific publications and attention a variety of scientific conferences for disarramation.

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nost a session sociaced in anaerooic extremophiles and its use in analog studies in the nex European Astrobiology Network Association con ference. We attively seek to expand collaborations and create synergies with other analogue research teams so do not hesitate to approach u towards building complementary activities. MASE results will provide better understanding of the nature of potential Martian biosignatures and

lity to detect traces of life.

Prof. Charles

The Astrobiology Science Conference 2017

(AlsSicOn 2017) will be hed April 2-28 2017 in Makes, Alstons. The home for this year in "Diversis Life and 2a Detection on Different Worlds." Many the April 2017 in the Company of the Company of the Properties of the Company of the Company of the Head of the Company of the Head of the Company of the Comp

The MASE team will be attending the co

AbSCION 2017 will provide a forum for reporting on new discoveries, sharing data and insights, advancing collaborative efforts and initiating new ones, planning new projects, and educating the next generation of astrobiologists. The conference will feature plenary sessions on current and thought-providing topics, topical sessions, evening programs, and public and educational events.

To browse the conference program click here



From Earth to Mars, towards understanding better the red planet habitability

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After almost 48 months of intense activity, the MASE project will reach it is end in December 2017. During the last months, the MASE team has been working to produce the first scientific publications of the project and disseminate its results.

Three MASE publications related to isolation of anierobic microorganisms in analogue environments, inheredization and preservation of microorganisms rom a Mars analog and stress tests affecting the unival artas of anaerobic microbes have just been published. More will come in the following months!

On 8th November, the University of Graz will he bast scientific meeting of the MAGE gracie. During this meeting we will review the whole MAGE activities during these almost four year evaluate the propers of ongoing activities and discuss future opportunities to harmest be outcome of the project. The development of provisions to resource that early correct researchers continued to be martured it inhabitemental to move forward them.

The MASE team will stay committed to the astrobology community and discussions on potential collaborations are already planned and will continuously the project of lifetime.

AGASE Coordin

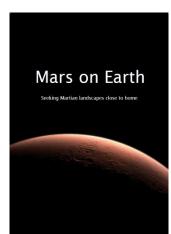


ast month, eight members of the MASE consortim attended the meeting of the European Astrobidogy Network Association in Aurhus delivering a otal of 4 oral presentations and 2 poster commu-

The enthusiasm and interest expressed by our E ropean and international colleagues demonstration one more time, that the MASE project is releva and lead to many interactions and collaborations



MASE newsletters





MASE outreach booklet