



EMC11

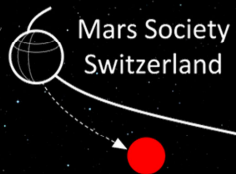
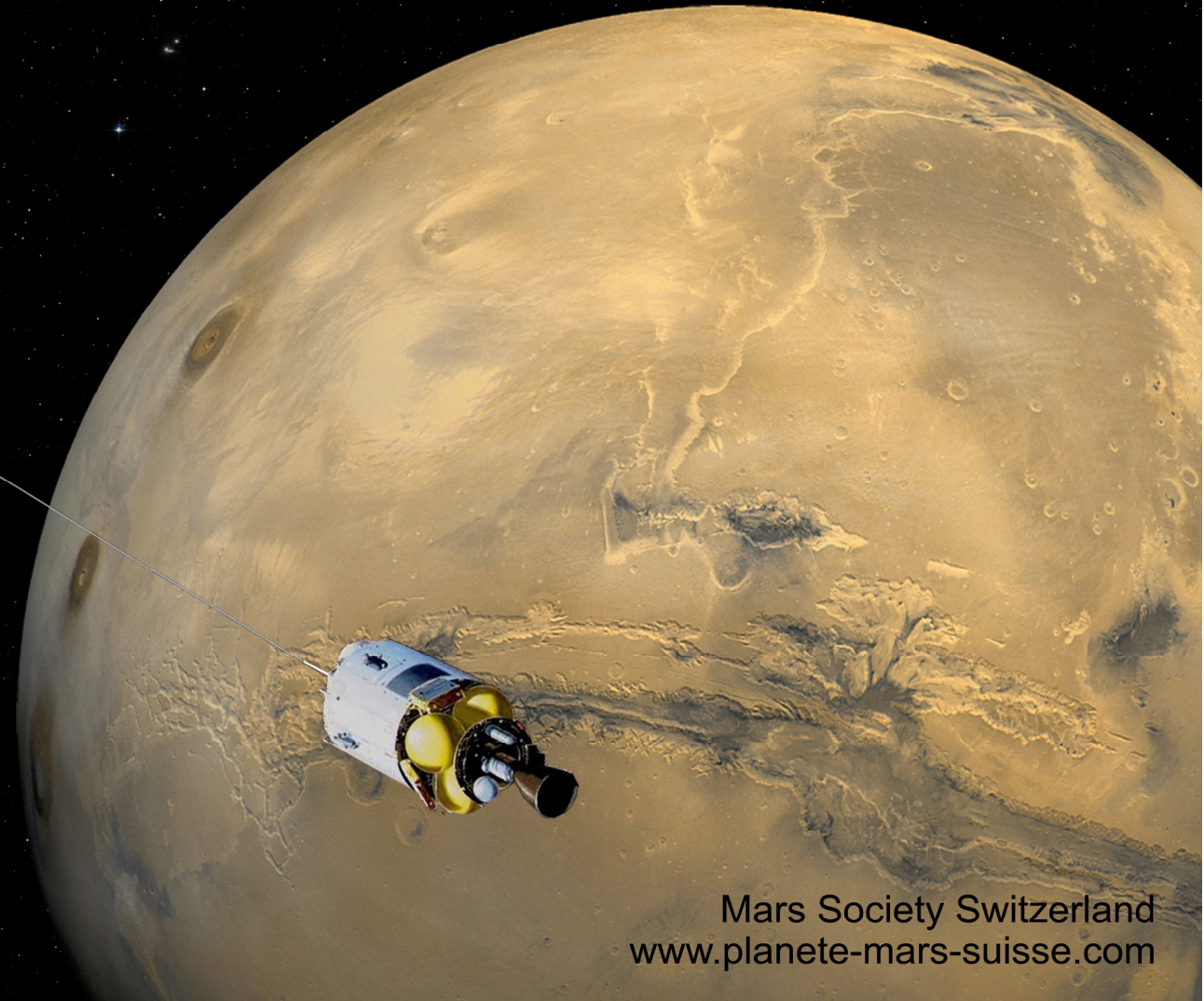
11TH EUROPEAN MARS CONVENTION

Neuchâtel, Switzerland

September 30th – October 2nd 2011

EXPLORING MARS
IS KEY FOR
UNDERSTANDING EARTH

LET'S GO!



Mars Society Switzerland
www.planete-mars-suisse.com

EMC11 11TH EUROPEAN MARS CONVENTION

FOREWORDS

EUROPEAN MARS CONVENTIONS

Every year the European branches of the Mars Society gather to sum up the progress made on the knowledge of Mars and the feasibility of its exploration. This is also the opportunity for specialists to share their experiences and ideas as well as spread their interest to the public at large.

In 2011, the Mars Society Switzerland will host the Convention. « EMC11 » will be the 11th European Mars Convention.

NEUCHÂTEL

Mars Society Switzerland headquarter being in Neuchâtel, this is where EMC11 will take place. In 2011 the city is commemorating the millennium of the first written mention of its name and this event will be the opportunity for the city to express its interest for the Future. Indeed Neuchâtel, building on its history as the capital city of watch making, has nowadays become one of the world centers of Microtechnology which is a key industry for Space exploration.

EMC11

EMC11 will take place within the premises of the Law School of the University of Neuchâtel ("UniNE"). During three days (from Friday Sept. 30th 2 p.m. till Sunday 2nd of October 4 p.m.), thirty experts mostly from Switzerland and France but also from other European countries and from the United States will present the most up to date picture of what you should know about Mars exploration. All fields will be covered: geology, exobiology, propulsion & rocketry, astronautics, microtechnologies and nanotechnologies, life support, psychology, medicine, architecture, economy, politics...

Dr Robert Zubrin, founder of the Mars Society, will be our guest of honor. On Friday evening, Olivier Dessibourg, head of the scientific team of the prestigious Swiss newspaper "Le Temps" will moderate a public debate on the manned exploration of Mars. Saturday evening, the City of Neuchâtel will welcome us in the majestic frame of its Musée d'Art et d'Histoire. On Sunday morning, the Austrian branch of the Mars Society will present a debriefing of its recent tests and experiments in the Rio Tinto area, well known for its Mars analogue environment and its extremophiles.

PROGRAM

www.planete-mars-suisse.com/crbst_82.html

ATTENDANCE

We welcome all persons interested in Mars Exploration. Payment of a registration fee is required (60CHF): www.planete-mars-suisse.com/crbst_79.html

HOTEL RESERVATION

www.planete-mars-suisse.com/crbst_79.html

www.hotel-des-arts.ch (the hotel closest to the University)

www.neuchateltourisme.ch

TRANSPORT

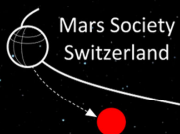
Once in Neuchâtel, any place will be accessible by foot. Trains will connect you to all major European cities and main Swiss airports.

www.planete-mars-suisse.com/crbst_78.html

CONTACT

For any explanation, please contact mars.society.switz@gmail.com

WE LOOK FORWARD TO SEEING YOU IN NEUCHÂTEL!



EMC11 Program

Pierre Brisson, MA in Economics, Uni. of Virginia, retired corporate banker and amateur geologist, President of the Mars Society Switzerland: Welcoming Address to EMC11; “Mars 101; what every participant should know about Mars”.

Dr Robert Zubrin, founder of the Mars Society. Opening words.

Tobias Keller, Institute of Geophysics (PhD), ETH Zürich: “Modeling of core formation, onset of mantle convection and crust formation on Mars”.

(agenda availability to be confirmed). **Professor Jean-Pierre Bibring**, Institut d’Astrophysique spatiale, Université de Paris-Sud, Principal Investigator of the OMEGA instrument aboard MarsExpress ; “Mars Geological History on the basis of spectrometrical data; what has been the real part played by water on Mars”.

Dr Cedric Gillmann, IPGP (Institut de Physique du Globe de Paris); ETH Z, Institut für Geophysik; “The long term effects of volcanism and atmospheric escape on the evolution of Mars surface conditions”.

Charles Frankel, geologist, member of the Board of Association Planète Mars (“APM”), the French branch of the Mars Society; graduate from Middlebury College (Vermont) and the University of Arizona; writer and lecturer on Martian geology; “The role of glacier in the past and present Mars”.

Alain Souchier, president of Association Planète Mars, Graduate in Engineering from Ecole Centrale de Paris, in charge of the Motors for the Future at SNECMA until his retirement early 2011. “Heavy Launchers for Space Exploration”.

Dr Carlos Omar Maidena, Physicist and engineer in Space Nuclear Systems Engineering (PhD Idaho State University), Senior Research Fellow at the European Organization for Nuclear Research (CERN), Senior member of the *American Institute of Aeronautics and Astronautics* (AIAA); “The Nuclear Member of the Mars Society Switzerland: Thermal Propulsion as a solution for faster trips to Mars”.

Elisa Cliquet, Graduate in Engineering from Ecole Centrale de Paris, engineer at CNES (French Centre National d'Etudes Spatiales), Direction des Lanceurs; member of the board of Association Planète Mars: "Trajectories to Mars as a function of propulsion systems".

Jürgen Herholz, Space Engineer (formerly with ESA), member of the board of Mars Society Deutschland: "ARCHIMEDES, a Mars Balloon Probe project of the Mars Society Deutschland" (with the support of the Bundeswehr University Munich, IABG Ottobrunn and DLR-Moraba).

Professor Michel Cabane (LATMOS), co PI of the "SAM" instrument aboard MSL : "Mars Science Laboratory, its purpose".

Dr Jean-Luc Josset, President of the Space Exploration Institute, PhD Université Pierre & Marie Curie, Paris : "ExoMars, where do we stand ?".

Ted Choueiri and Fabien Jordan (EPFL / Space Exploration Institute) "CLUPI an PanCam instruments being built to equip ExoMars".

Dr Sebastian Gautsch, SAMLAB/IMT/EPFL-Neuchâtel, team leader of "Tools for Nanoscience", PhD thesis on the Atomic Force Microscope embarked aboard Phoenix; Vice-President of the Mars Society Switzerland: "Nanotechnologies as a tool to facilitate Space exploration" (*subject of presentation to be confirmed*).

Dr Beda Hofmann, University of Bern, Institute of Geological Sciences, Natural History Museum: "Recognizing fossil microbial life on Mars: The possibilities and limitations of optical imaging".

Artemis Westenberg, President of Explore Mars Inc and founder of the Mars Society Nederland. "The ISRU challenge to proceed forward on a Mars Direct flight architecture".

Pierre Brulhet, Architect DPLG (France) and Olivier Walter, Architect DPLG (France), Co-Presidents of ArchiEspace; members of Association Planète Mars: "The Martian Habitat, what we can do within astronomical and Martian environmental constraints".

Florent Mennechet, Designer at Kia Motors Europe (Frankfurt am Main); “Pressurized rovers, a must to explore Mars”.

Franco Carbone (MSc with Majors in Information Technology/Hardware Engineering from the University of Bologna and CEFRIEL Research Center in Milan; Head of Interferometer Operation Department at the European Gravitational Observatory (EGO) di Pisa; member of the Italian Mars Society, and **Lara Vimercati**, Biology student (Ames Research Center intern): Definition and implementation of a Monitoring and Alarm System for the whole MDRS Station.

Richard Heidmann, graduate of Ecole Polytechnique de Paris and Sup Aéro, Retired from SNECMA management (“Directeur Orientation Recherche et Technologie”), founder of Association Planète Mars (“APM”, the French branch of the Mars Society), vice-president of APM. “Recommendations for a safe and efficient surface power on Mars”.

Enrique R. Guzman Solares, PhD Student in the Laboratory of Applied Mechanics & Reliability Analysis of the EPFL; “resilience of mechanical structures in a Martian environment”.

Richard Heidmann: “Radiations, what we must really fear”.

Théodore Besson, IPTEH (“Institute of Land Use Policy and Human Environment”) Uni. Lausanne, PhD Student, “Micro eco-systems and recycling; where do we stand on MELISSA.”

Gernot Groemer, University of Innsbruck, Institute for Ecology/Dept of Astrophysics, MSc in Astronomy, President of the Mars Society Austria, Member of the Board of the Austrian Space Forum; “Lessons from the Rio Tinto analogue experiment for studying extremophiles”.

Dr Alain Sandoz, Associate Professor at the University of Neuchâtel, engineer in information systems, responsible for planetary protection of the CLUPI & PanCam WAC instruments of the ExoMars ESA mission.

Dr Vincent Ferrari & Dr Cécile Godé, University of Provence and CReA (French “Airforce Center of Research”): “Coordinating in extreme environments, research in the frame of the Mars Society analogue desert habitat (MDRS)”.

Lukasz Wilczynski, “Planet PR” Public Relation Agency, President of the Mars Society Poland; “Mars is it a matter of Marketing?”

Philippe Coué, in charge of the Communication of French Company, Dassault Aviation, and specialist of the Chinese Spatial Program: Interest of the Chinese for the exploration of Mars, their program.

Dr Robert Zubrin, founder and president of the Mars Society: The prospects of the American policy regarding the exploration of Mars with inhabited flights.

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Olivier Dessibourg, Chief of the Scientific Section of the major Swiss newspaper edited in French, “Le Temps”, will moderate a public debate on Space exploration of Mars with inhabited flights.