

Advanced Education Program in ICT Information and Communication Technologies

Academic Year 2013-2014

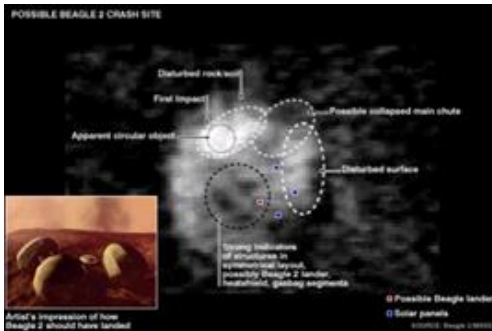
INTERNATIONAL SEMINAR

Risk Management – Practices and Promises

Karen S. McBride, University of California, Los Angeles / NASA

Friday, April 11, 2014 - 3:00 p.m. to 6:00 p.m.

DITEN - Room D1 - Via Opera Pia 11, Genoa



ABSTRACT

Lecture will cover the history of past, present and future Risk identification and management. Topics such as: Changes and lessons learned over the last couple of decades. We will follow the history of Mars Landers, Rovers and Orbiters from Mars Pathfinder to today's Curiosity and the changing environment for safety, cost and performance of these missions. Questions to answer: Is zero risk a realistic goal? What's the difference between risk and safety? Are risk and safety linearly correlated?

In the past decade, Risk Management has progressed within the space flight community especially within the Mars Exploration Program. Today every flight project has Risk Management identified as a specific activity. The focus is on improving and increasing planetary exploration

by minimizing mission's cost and unfortunate incidents. In other words the big challenge is: risk reduction without budget inflation.

In the past decade, flight projects have changed their approaches to conducting missions as a result of cost caps and compressed schedules. The problem with scaling back an effort is that it triggers risk scales in the opposite direction. On the contrary, light projects need to reduce risk factors associated with personal performance, interfaces, operational processes, and system implementation.



Karen S. McBride

After graduation, she studied Geology at the University of Oregon and followed up with Geochemistry graduate work at the University of California, Los Angeles (UCLA). She is currently Senior Program Manager (Mars Exploration Specialist) at UCLA, on a NASA grant.

Previous years have been spent in various collaborative projects between UCLA, the Jet Propulsion Laboratory and NASA Headquarters.

In 2002 she joined NASA HQ to run the Mars Scout Program, which sought to send low-cost and exciting missions to Mars. At NASA HQ, Karen also has worked on Mars Global Surveyor, Mars Odyssey, the Mars Instrument Development Program, and a Mars sampling handling facility to safely process samples that may be returned by future Mars sample return missions. She was the initial Program Scientist and Program Executive for Phoenix Mission. At UCLA, she worked on the Mars Polar Lander project and she managed the White Mountain Research station in Bishop, CA for UCLA. She also put together the UCLA Operation Center and ran the Plasma Energies Lab.

REGISTRATION

La partecipazione è obbligatoria per gli studenti ISICT del terzo anno della laurea triennale e del primo e secondo anno della magistrale. In caso di assenza è obbligatorio inviare una mail giustificativa a segreteria@isict.it.

Per la partecipazione di altri studenti dell'Università di Genova e del personale dei Soci di ISICT è richiesta la prenotazione mediante invio di una email a segreteria@isict.it. Le iscrizioni verranno accolte fino a esaurimento posti. La segreteria dell'Istituto ISICT, su richiesta, rilascerà un attestato di frequenza.

VENUE

DITEN (Department of Electrical, Electronic, Telecommunications Engineering, and Naval Architecture)

Via Opera Pia 11, Genoa - Room D1 (ground floor)

To reach DITEN: http://www.diten.unige.it/index.php?option=com_contact&view=contact&id=1&Itemid=498&lang=it

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