



It started in a little village not in Gallia but in Tyrol called...





2010 34th Edition



Summer School Alpbach 2010

“New Space Missions for Understanding Climate Change”

July 27 – August 5, Alpbach/Tyrol – Austria

www.summerschoolalpbach.at



The „A“ Team



Dear Friends
It will be a
lovely day!
(Commander
in Chief)

Wuff, I'm
keeping the
space herd!

Climate Change
with my Beamer. I
can detect
everything!

Where is
the
money?

I love my Job
In Alpbach



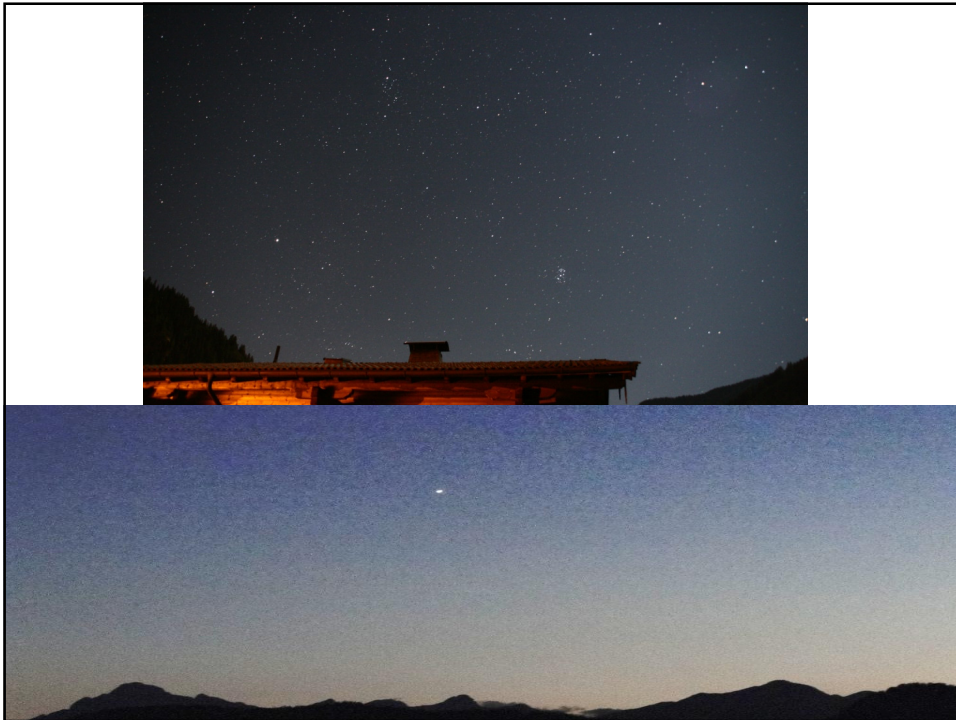
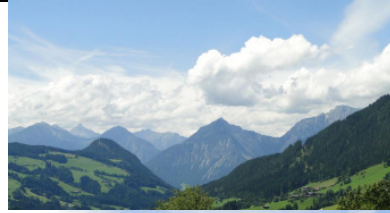
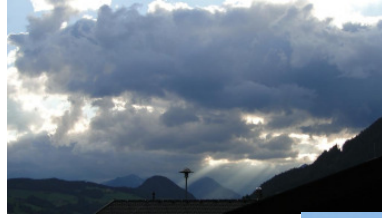
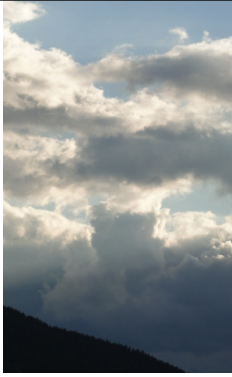
Is Berne and
Swiss
compatible?



Fotos are
missing to our
world

What do I
have to
do?

Sky Impression



Nature Impression



The wise Head Tutor ...



...and the Team



THE Jury 2010

Jury Chairman:

- Roger BONNET, ISSI

Jury Members:

- Josef ASCHBACHER, ESA (Directorate EO)
- Andre BALOGH, Head Tutor (*without voting right*)
- Antonio CASTRO, ESA (Education Office)
- Hartmut GRASSL, Germany
- Denis MOURA, CNES/EDA
- Harald POSCH, FFG (Chairman Programme Committee)



Some special Participants



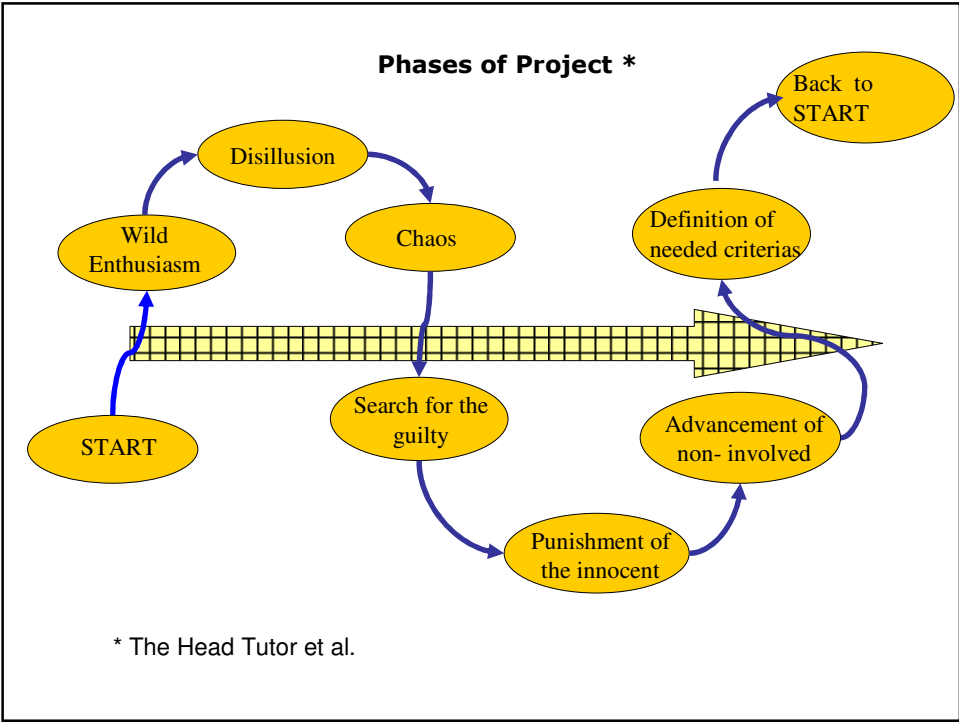
Opening



„Historic excerpt Space Summer School Alpbach “ Alpbach Summer School Students defining the future missions for ESA

- ESA founded **1975** = FFG/ALR/ASA Summer School started **1975**
- **1978** Summer School „Manned space Activities“ = **1983** 1st ESA Astronaut Ulf Merbold Shuttle Flight #9
- **1983** Summer School „Remote Sensing“ = **1991** ERS-1 ESA 1st Earth Obs. Sat.
- **1986** Summer School = **2009** Alexander Gerst member of ESA Astronaut Corps (out of 8750 candidates)
- **1996** Summer School „Mission to the Moon“ = **2003** Smart-1, ESA´s Lunar Mission
- **1998** Summer School „ Our solid & liquid Planet“ = „Cryosat“ due for launch late **2005**, will determine thickness of earth´s continental ice sheet.
- **2000** Summer School „extragalactic Astronomy & Cosmology from Space“ = **2007** „Planck“ ESA´s Cosmic Microwave Background mission
- **2003** Summer School Working and living in Space: from ISS to Moon and Mars“ = **12/2007** Columbus Launch to the ISS
- **2005** Dark Matter = **2015-25** Cosmic Vision ESA
- **2006** Natural Disaster = Alexander Gerst selected ESA Astronaut
- **2007** Astrobiology =
- **2008** Sample Return from Moon, Asteroids & Comets = **Asteroid named Alpbach**
- **2009** Exoplanets=
- **2010** Climate Change

What will come next in 10 years, after 2135 alumni ?



Audi Max Impressions



He guys Space has nothing to do with peristaltic activity!

ICE Breaker



Spacecraft System & Design



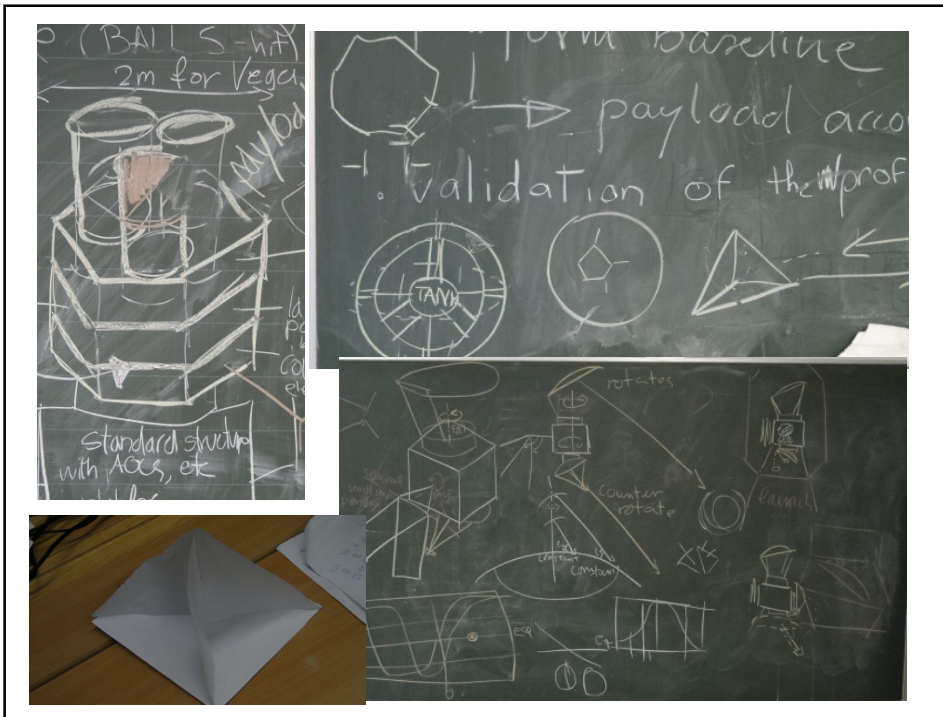




Ways of thinking



Team Working Impression



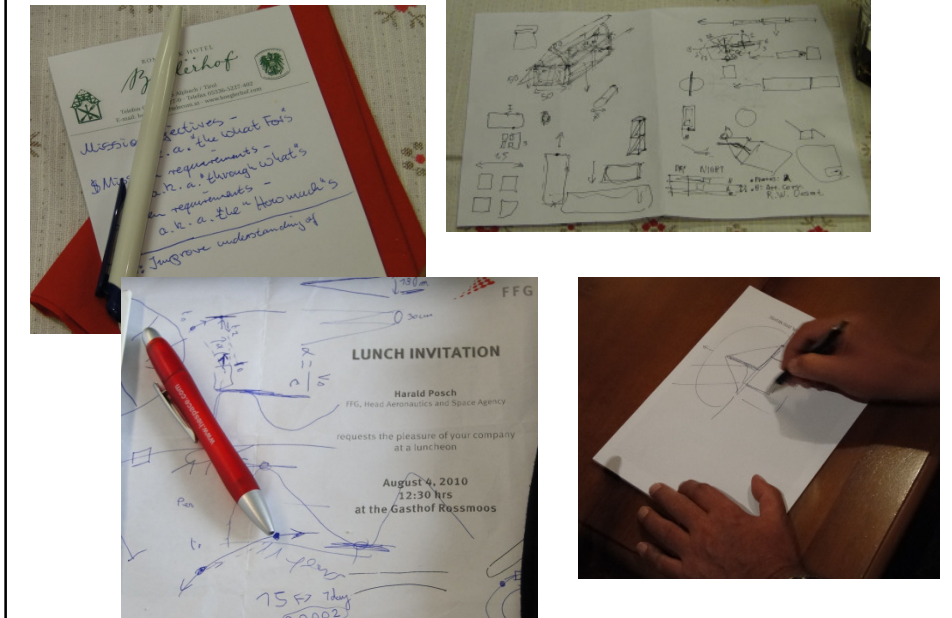
High Level Experts



...many thanks to
Böglerhof Front
Team !



Menüs & Invitation used for Space



SUMMER SCHOOL ALPBACH 2009
34th Edition

Social Event 2010





Mountainhiking 2010 Wiedersbergerhorn



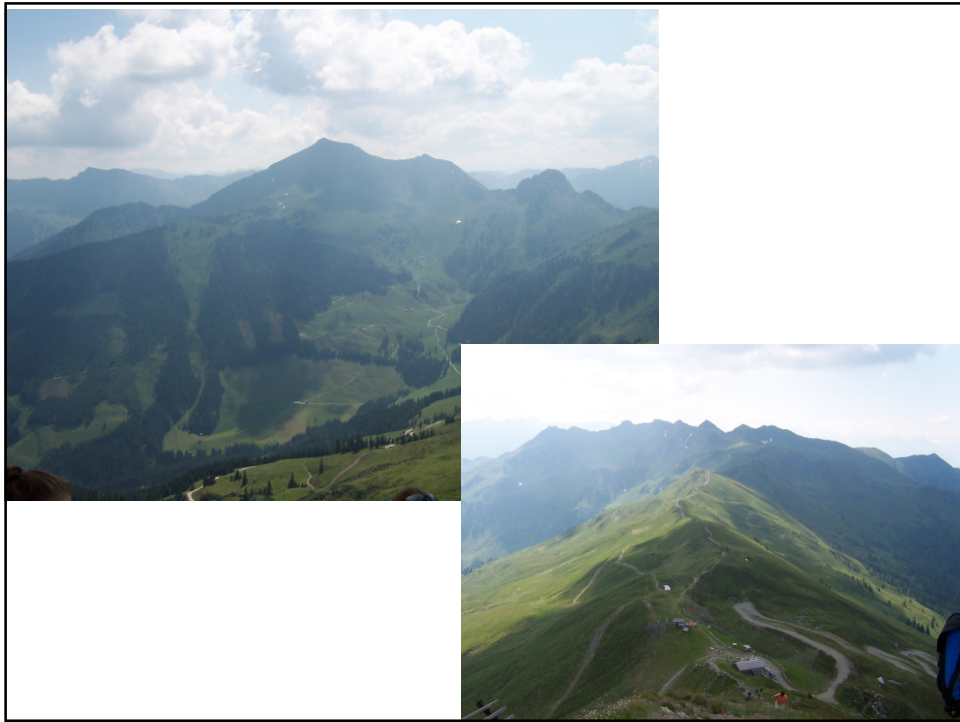
Wiedersberger Horn hiking Some Statistic

- Altitude meters made by walking: 1.634 m = 323 m up and 1.311 m down
- Top station: Wiedersberger Schopf 1.804m
- Top Peak (Cross) Wiedersberger Horn 2.127 m
- Lake 1.346 m social picnic break and swim NEW RECORD 6 men 1 woman Water Temperature: <16C
- Whole hike 11,69 km
- Trip time incl. Break: 6 hours – 4:03 hours walk
- Grade of difficulty (UIAA): 0-1(with cross)
- Max speed: 5,1 km/h
- Moving speed: 2,3 km/h
- Average speed: 0,9 km/h
- Injuries: none
- Missing: none
- Material defect: 0
- Sun Burn: light ones= 3
- participation: 53 persons + 1 dog









At the summit = „Bergheil“





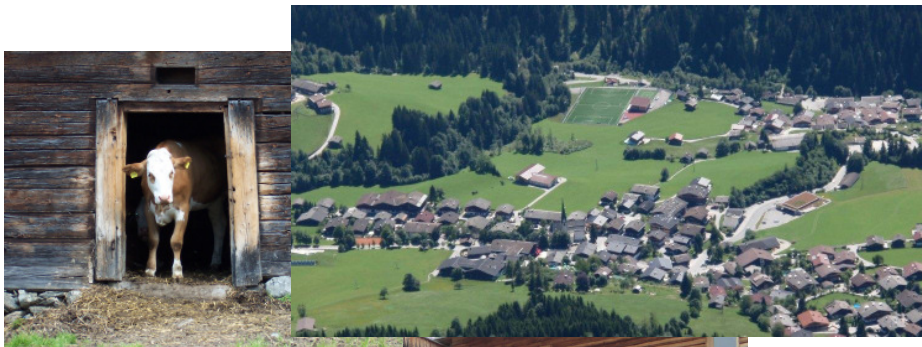
At the lake

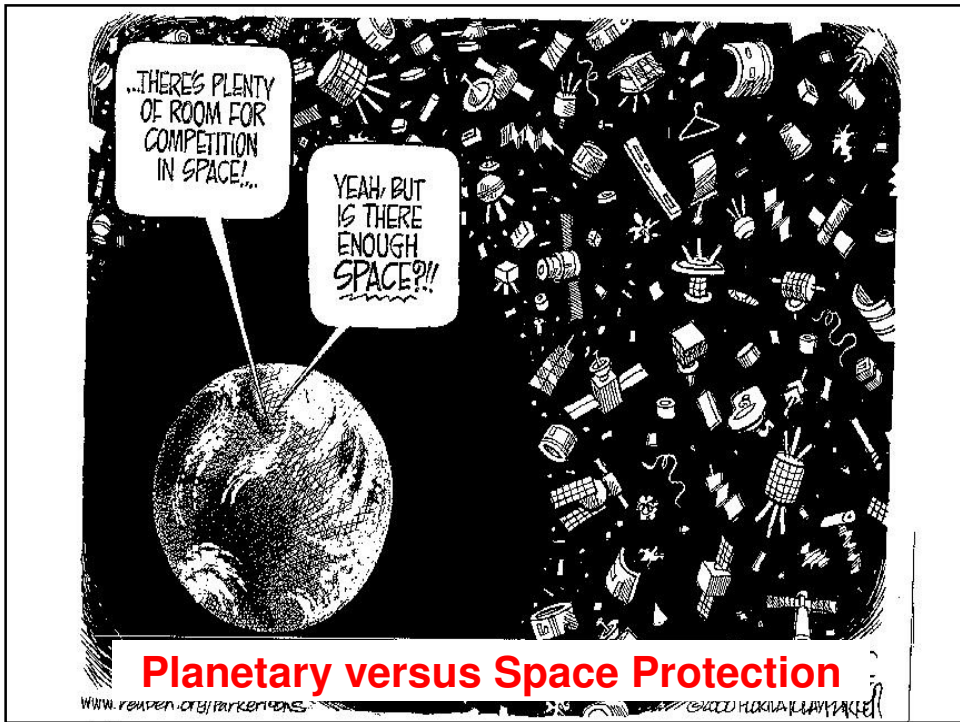


Formic Acid experiment



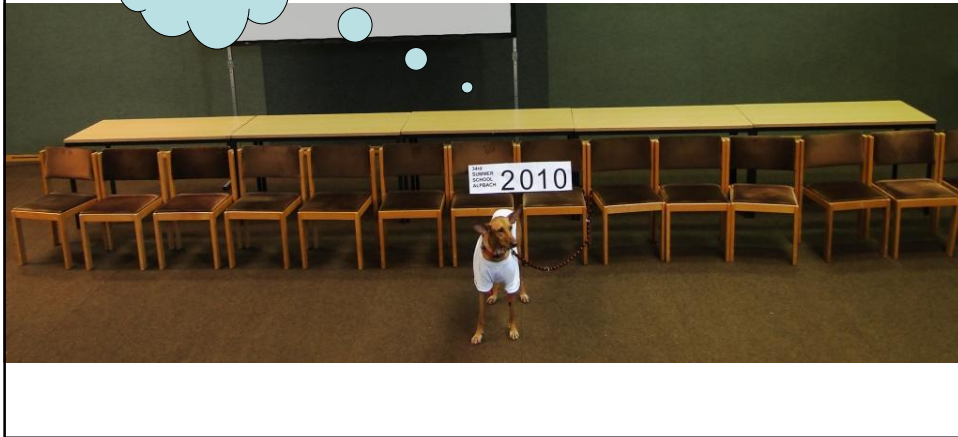
The last challenge :
crossing the ALPBACH





Summer School Alpbach 2010 Group pictures

OOPPS!
Where are
the
students?



Summer School Alpbach 2010 Group pictures

OOPPS!
Wrong side??

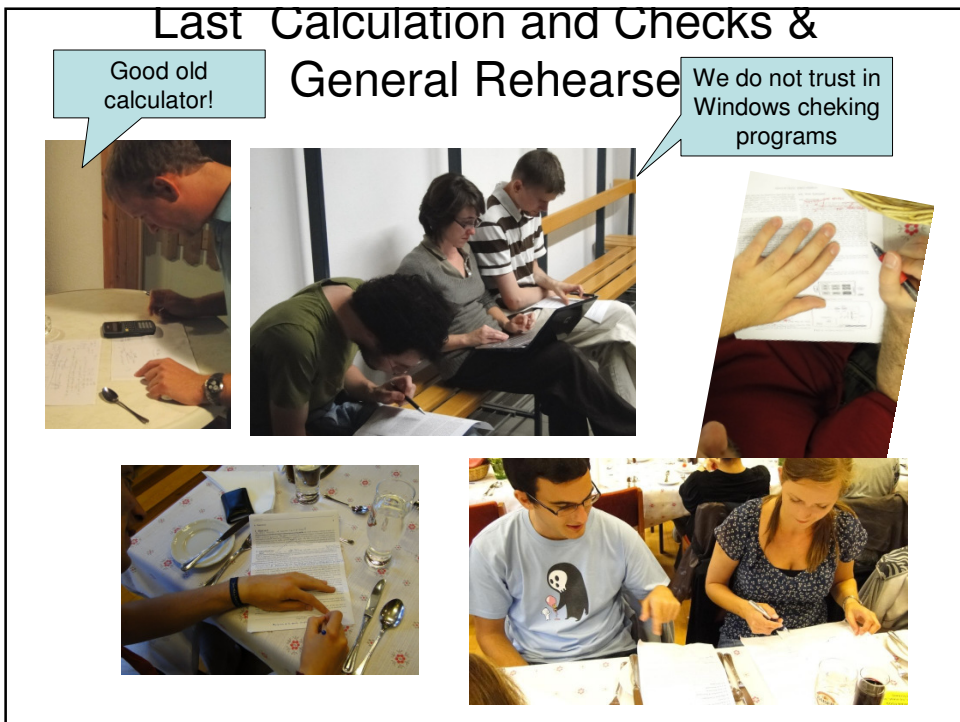




Night shift = last phase



Last Calculation and Checks & General Rehearse



Delivery

no need to hurry to 00:00 anyway the mission will not fly before 2025



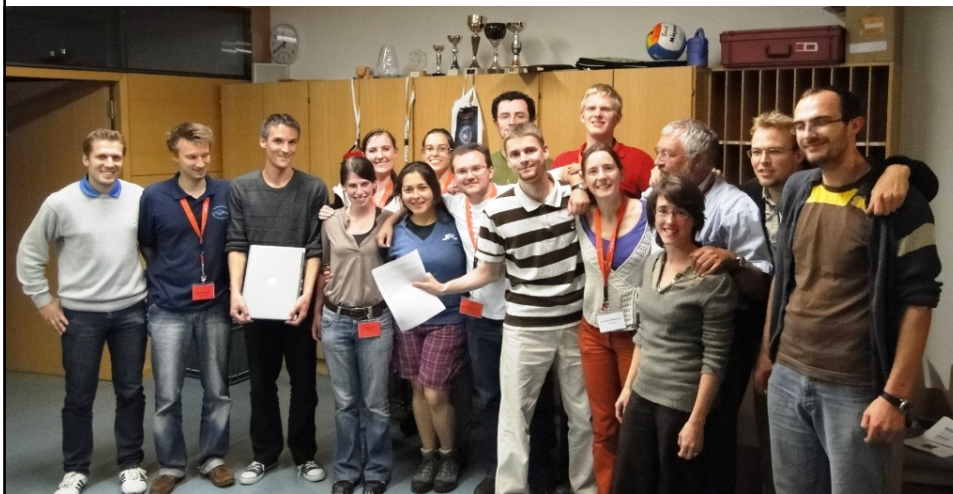
Well, we kept the time limit all were in at 00:00 c.t. (academic 15 min)



1st **RED** at 23:40,
2nd **ORANGE** at 23:56,
3rd **GREEN** at 23:58
last (but not least) **BLUE** at 00:08

TEAM

RED



**TEAM
ORANGE**



**TEAM
GREEN**



**TEAM
BLUE**

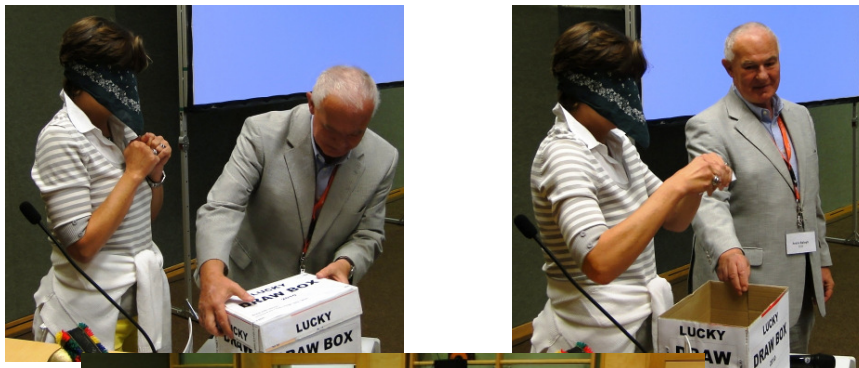


Scientific definition and others...

...pray that there's intelligent life somewhere
up in space, 'cause there's buggers all down
here on earth!

(THE UNIVERSE SONG, from Monty
Python's THE MEANING OF LIFE)

Decision device for order of team presentation in 3 drawings
1st Team Red, 2nd Team Orange, 3rd Team Green and Team Blue



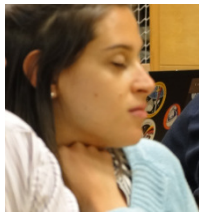


Team ORANGE





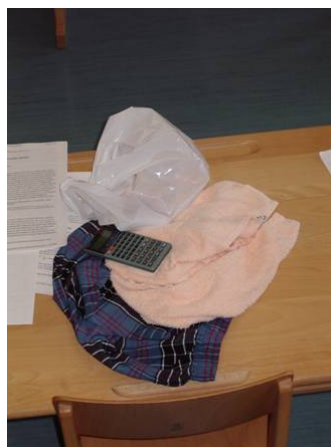
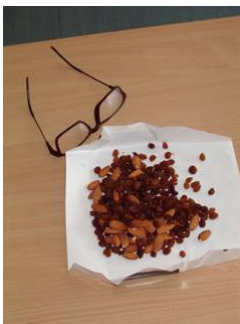
Tired , sleepy and happy



Accurate documentation



Soldiers remain or „Scientists Basics“



...Live from Alpbach.... the Space Oscar's night 2010...



....And the OSCAR 2010 goes to...



- OSCAR for BEST SCIENTIFIC CASE for the Mission to Team **RED**
- OSCAR for BEST TECHNICAL CASE for the Mission to Team **ORANGE**
- OSCAR for MOST COMPETITIVE Mission to Team **GREEN**
- OSCAR for BEST PRESENTATION of Mission to Team **GREEN**
- Jury Chairman's OSCAR to Team **BLUE**

Mission accomplished
(have nice holidays, we need
them now ...)



Acknowledgements of the students

and all tutors

Warm thanks to Helen and Klaus for their patience, support
and expertise throughout the project.

Thanks to the various roving tutors who advised us and
Suggested improvements to our mission.

We are indebted to our national science agencies for
their generous funding.

Finally, we gratefully acknowledge the Summer School
Organizers and staff for this unique opportunity.

The END – ENDE – FIN- FINE – FÍN – VÉGE-SLUTT- TELOS -



Thanks & Credits

- A warm thanks to all involved of the SUMMER SCHOOL ALPBACH 2010
- Thank you for the contribution in pictures also from the students/participants
- We will miss you and we are hoping to see you again very soon

© Summer School Alpbach 2010 – pictures, layout & concept M.A. Jakob