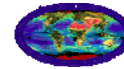




Welcome by Science City Davos – Cutting edge research in a remote place

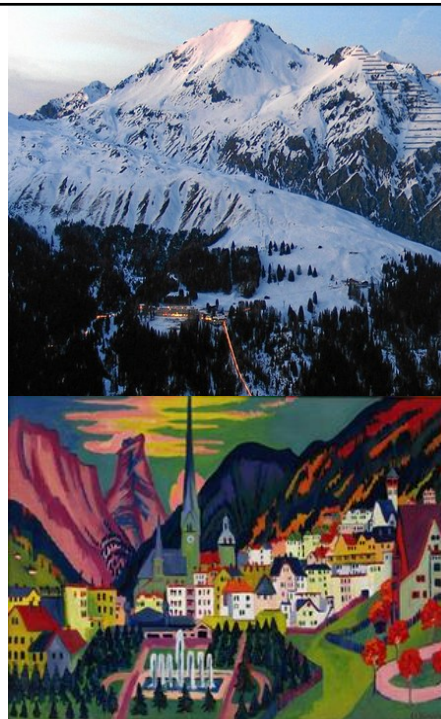
Britta Allgöwer

10th Intl. Symposium on Physical Measurements and Signatures in Remote Sensing
ISPMSRS07, March 12-14, 2007, Davos, Switzerland



Davos is more than ...

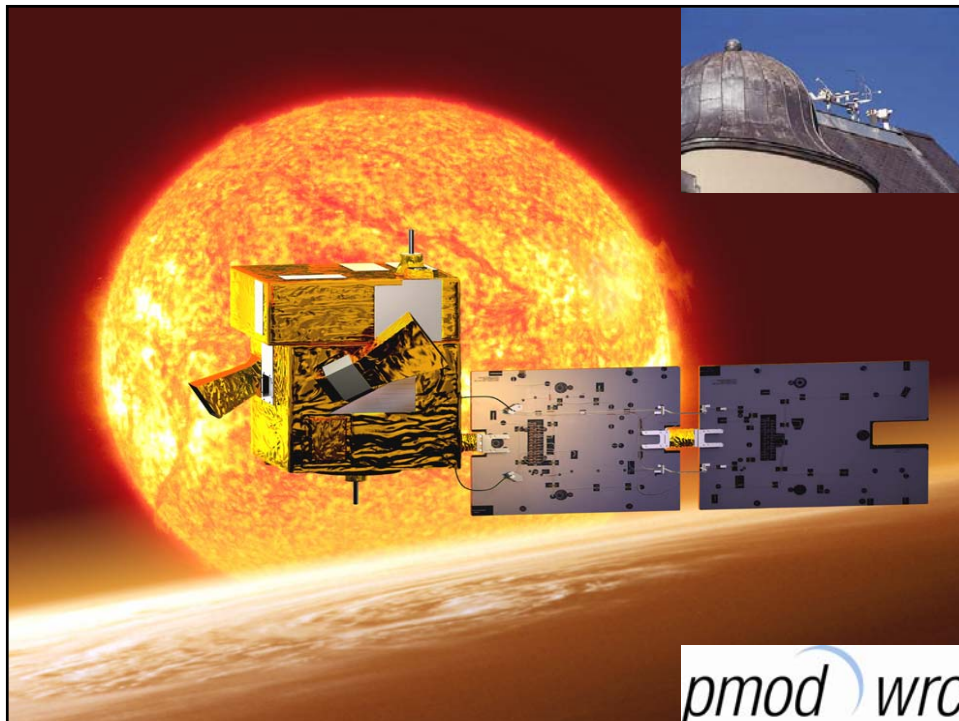
- skiing,
- the WEF,
- Hiking,
- mountain biking,
- cow bells,
- shopping,
- ...



... it is home & working place to

- almost 13000 people

... and home to 4 research institutes





Goals of SIAF

- Development of new therapies
- Innovations in allergy vaccination
- Investigation of the mechanisms of allergic infections

Major Discoveries at SIAF

- Novel allergen-SIT vaccines
- Immunological mechanisms of asthma
- Immunological mechanisms of atopic dermatitis
- Immune tolerance pathways



Swiss Institute of Allergy and Asthma Research
Davos, Switzerland



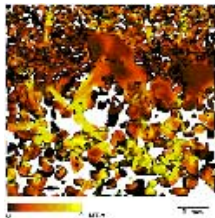


Highlights: Fundamental Snow Physics



experiment...

Worldwide first non-destructive structural analysis by X-ray tomography



and theory...

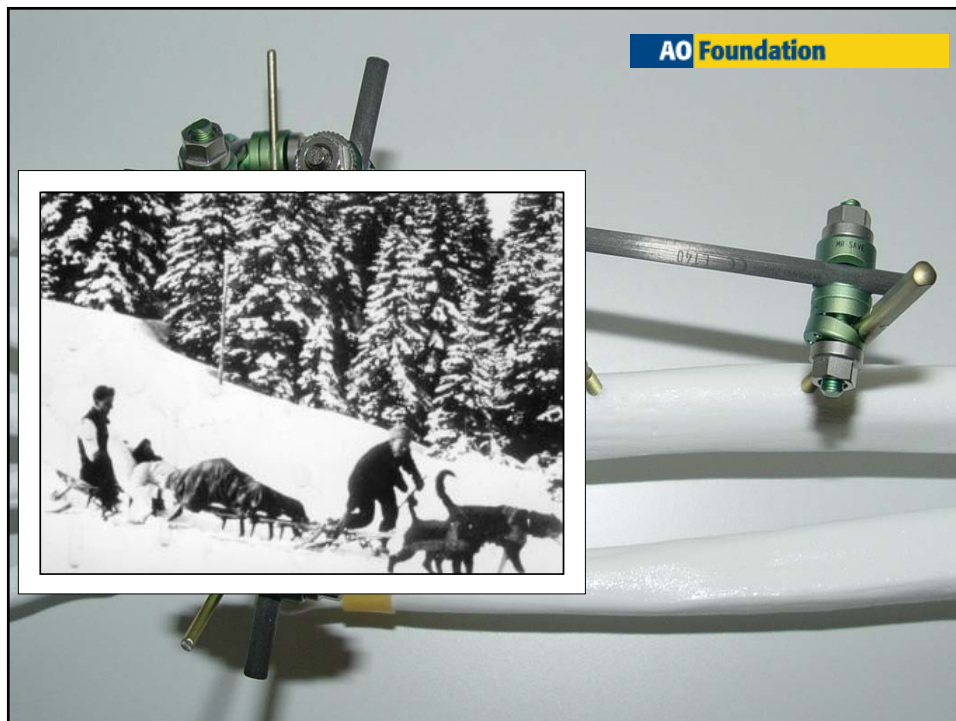
Numerical finite element calculation of stress distribution within snow structure

ASSIST

Alpine Safety, Security & Informational Services and Technologies
EU 6th Framework Programme Priority "Aeronautics and Space" - STREP



- **Goals of ASSIST**
- Providing satellite information rapidly and user friendly on the platforms used by safety and rescue organisations
- preparing measures (*prevention, warning*),
- intervention measures (*closures, evacuations, rescue operations*)
- post-event measures (*event analyses*)





	PMOD/WRC 1907	SIAF 1905	SLF 1931/36 Weissfluhj.	AO Foundation/ Inst 1958
Organisation SFI 			Approx. 120, → 20 PhD students → 10 MSc students → 3 Postdoc → 10 traineeships → 5 apprenticeships 50 – 60 / year	AO Institute: 70 → 20 PhD students → 20 MSc students → 5 Postdoc AO-Foundation: 220 50 – 60 / year Awards 3 - 6
			Yearly budget of CHF 90 – 100 Mio Approximately 400 collaborators	
			demonstrations 2562	(yearly); students vents 13952
			CHF 14 Mio., of which CHF 7 Mio. 3 rd party money	AO Inst. CHF 9.7 Mio., (1.3 3 rd party) AO-Foundation: CHF 75 Mio

Who is Science City Davos?

- Federal Institute for Snow and Avalanche Research (SLF/WSL)
- AO Research Institute (Association of Osteosynthesis / Arbeitsgemeinschaft für Osteosynthesefragen)
- Swiss Institute of Asthma and Allergy (SIAF)
- Physikalisch-Meteorologisches Observatorium Davos & Weltstrahlungszentrum (PMOD/WRC)
- Kirchner Museum (Museum of Ernst Ludwig Kirchner)
- Swiss Text Academy (Schweizerische Textakademie)
- Davos Tourism (DT, Davos Tourismus)
- Community of Davos (Landschaft Davos Gemeinde)



Goals of Science City (www.wissensstadt.ch)

- Interdisciplinary platform of knowledge exchange
- Innovative courses & conferences
- Own research (i.e., evolution of Alpine landscapes / land use change & disturbances)

- Welcome to **ISSW_{Europe} 2009**: 27.9. – 2.10.2009
 - Session on Snow and Remote Sensing



Image courtesy / copy right

- PMOD (Werner Schmutz)
- SIAF (Cecmi Adkis)
- SLF (Stefan Margreth)
- AO (John Wilhelm)