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Expertise

- Planetary sciences
- Emergency Medicine
- Science Communication

Education

- MSc in Astronomy, 2004
- Emergency Medical Technician – Paramedical Level, various special training courses in disaster relief, medical teaching and rescue strategy development.
- ISU summer sessions 1996, 1997, 1998 (support staff, student, teaching assistant)

Experience

- 17 yrs. Prehospital Emerg. Medicine (including remote rescue operations)
- 8 yrs. Astronomical projects
- 10 yrs. Experience in media work and science communication
- Crew member of the Crew 11 and Crew 48 at the Mars Desert Research Station, Utah (Station Astronomer and Crew Medical Officer, Simulation of the first surface expedition on Mars)
- Flight Crew member of the 37th ESA Professional Parabolic Flight Campaign (Emergency Medicine experiments)
- PolAres / programme executive officer (multiyear, interdisciplinary Mars analogue research project)

Relevant Projects

(not more than 8-10)

1. Mars Desert Research Station, Utah (2 times)
2. Parabolic Flight Experience (ESA Professional Parabolic Flight Campaign 47)
3. Project management for various science communication and outreach projects (ranging from workshops, exhibitions, to media interaction etc...)
4. Project management AustroMars (Mars Analogue Project, responsibility: science management and crew selection/training)
5. PolAres Programme Executive Office (6-year project for an arctic Mars-analogue expedition)

Papers + Publications + Lectures

Selected Papers & Publications

1. Groemer, G.: "The LunarSat strategy for public outreach and education - a testbed for future mission outreach". Proc. of the 4th Int. Conf. on the Exploration and Utilization of the Moon, 37-40. Noordwijk, 2000
2. Groemer, G.: "LunarSat, the old continent reaching out again". Earth Space Review 3 (2000), 27-28.
3. Bacher, A., Lederle, C., Groemer, G., Kapferer, W., Kausch, W., Kimeswenger, S.: "Variable stars on small telescopes - Antipin V71 - a case study". AG Abstr. Ser. 18 (2001), 250.

4. Kimeswenger, S., Bacher, A., Lederle, C., Kausch, W., Kapferer, W., Groemer, G.: „V445 Puppis“, IAU Circ. 7574 (2001), 2.
5. Bacher, A.; Lederle, C.; Groemer, G.; Kapferer, W.; Kausch, W.; Kimeswenger, S. „V, I_C Observations of the Variable Antipin V71“, 2001IBVS.5182, 10/2001
6. Groemer, G. „Rettungsdienst auf dem Roten Planeten“ (EMS on the Red Planet), Rettungsdienst (german EMS journal), March 2003
7. Frischauf, N., Groemer, G., „Using Science Fiction to attract the general public towards space“, IAF 2003 conference proceedings, Bremen, 2003
8. Groemer, G.: „Trauma Management Issues During a Surface Expedition on Mars“, Proc. of the 3rd European Mars Conference, Bremen, 2003
9. Kimeswenger, S., Bacher, A., Emprechtinger, M., Groemer, G.E., et al.: „Optical spectroscopy of IRAS 02091-6333“, A&A 409, 953-957, 2003
10. Grömer, G., Soucek, A.: „Fachdidaktik im Vakuum?“, Astronomie und Raumfahrt im Unterricht, August 2004.
11. Grömer, G.: „High-z dust investigations on overlapping pairs of galaxies“, Diploma thesis, Univ. Innsbruck, May 2004.
12. Grömer, G., Brimacombe, J., Haas, T., Negueruela, C., Soucek, A., Thomsen M., Keller, C.: „The Feasibility of Laryngoscope-Guided Tracheal Intubation in Microgravity During Parabolic Flight: A Comparison of Two Techniques“ Anesth Analg 2005;101:1533-5
13. Mauschwitz, R., Grömer, G., Oberhammer, R., „Notfallmedizin auf dem Mars - Eine simulierte Marsexpedition“, in: „Notfall- und Rettungsmedizin“ (Dez. 2006), Springer, pp.653-660
14. Grömer, G. (ed.): *AustroMars Mission Report* (2006), pp.1-375, Innsbruck, 2006.
15. Grömer, G., Frischauf, N., Soucek, A.: „The AustroMars Mission“, in: Mars 2030 Conference Abstract Booklet, Salzburg 2006, p.6
16. Grömer, G.: „Zum Stellenwert der bemannten Raumfahrt in der Grundlagenforschung“ In: Brünner „Weltraum und Recht“, Graz 2007
17. Groemer, G.: "AustroMars and PolAres: Measuring Forward Contamination During Mars-analogue Missions", Planetary & Space Sciences, Special Issue on Exploring Mars and its Earth Analogues (Ori et al.), Special Issue Planet. Space Sci. (2008), doi:10.1016/j.pss.2008.07.021
18. R. Albrecht, P. Beck, G. Groemer, and N. Frischauf: "Ad Astra per Aspera - Austria joins the European Southern Observatory", Bridges. Vol 18, July 2008. Herausgeber: Office for Science and Technology, Austrian Embassy to the United States. ISSN: 1558-4674)
19. Groemer, G. et al: "Human performance data in a high workload environment during the simulated Mars expedition "AustroMars". Proceedings of the 59th International Astronautical Congress - IAC Proceedings 2008, Glasgow, Scotland. ISSN 1995-6258

Various lectures is basic astronomy in schools, popular lectures for non-scientific communities, 14 years of teaching experience for EMS students;
Lecturing various classes on planetology at the University of Innsbruck.

Memberships

- Space Generation Advisory Council
- Austrian Space Forum
- Various Emerg. Medicine related organizations and working groups
- International Academy of Astronautics, Study board on "Protecting the environment of celestial bodies"
- Panthera Groemer Seeber Zechmann KG (priv. company, IT projects and space science consulting)