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Dr. Ulrich Kueppers  
Aktuelle Forschung / On-going research  
(with no apparent order and most likely incomplete... ☺)

- VERTIGO ([www.vertigo-itn.eu](http://www.vertigo-itn.eu))
- MED-SUV (<http://med-suv.eu>)
- Ash generating by high strain rates
  - Mike Heap (Uni Strasbourg, France)
  - Mai-Linh Doan (Uni Grenoble, France)
  - Yan Lavallée (Uni Liverpool, GB)
- Abrasion of pyroclasts
  - Steve Lane (Lancaster University, UK)
  - Sebastian Kölbl (LMU, MSc student)
  - Sebastian Müller (MSc student, University of Lancaster, UK)
- Transport and emplacement conditions of pyroclastic density currents on Tungurahua volcano, Ecuador  
*(funded by DFG KU2689/2-1)*
  - Guilhem Douillet (LMU, PhD student)
  - Jorge Bustillos, Minard Hall, Patricio Ramon (Instituto Geofisico Quito, Ecuador)
- Volcanic lightning.
  - Corrado Cimorelli, Betty Scheu (LMU)
  - Miguel Alatorre-Ibargüengoitia (Uni Tuxtla, Mexico))
- Fragmentation process and efficiency during the P1, P2 and P3 eruptions of Mt. Pelée, Martinique (French Antilles)
  - Edouard Kaminski, Steve Tait, Guillaume Carazzo (IPGP Paris, France)
  - Diego Perugini (Uni Perugia, Italy)
- The effect of volcanic ash on the operationability of passenger jet turbines.
  - Kai-Uwe Hess (LMU)
  - Corrado Cimorelli (LMU)
  - Jacopo Taddeucci (INGV Rome, Italy)

- Large-scale experiments on cratering (co-funded by NSF)
  - *Greg Valentine, Ingo Sonder, Alison Graettinger (Buffalo University, USA)*
  - *Pierre-Simon Ross (Quebec University, Canada)*
  - *James White (Otago University, New Zealand)*
  - *Bernd Zimanowski (Uni Würzburg, Germany)*
  - *Jacopo Taddeucci (INGV Rome, Italy)*
- Processes affecting the macroscopic aggregation of volcanic ash.
  - *Michael Jacob (Fa. Glatt, Weimar, Germany)*
  - *Teresa Scolamacchia (LMU)*
  - *Corrado Cimorelli (LMU)*
- Combining experimental volcanology and volcano monitoring (equipping well-constrained experiments with volcano monitoring tools).  
*(funded by DFG KU2689/1-2)*
  - *Matthias Hort, Kristina Meier (Universität Hamburg, Germany)*
  - *Jacopo Taddeucci, Piergiorgio Scarlato (INGV Roma, Italy)*
  - *Miguel Alatorre-Ibargüengoitia (Universidad de Tuxtla, Mexico)*
  - *Bettina Scheu, Laura Spina (LMU)*
- Influence of temperature on the fragmentation behaviour
  - *Bettina Scheu (LMU)*
- Fragmenting samples with porosity gradients
  - *Dominique Mackensen (LMU, BSc student)*
- *Modelling particle acceleration and deceleration*
  - *Alexandr Goloubev (LMU, MSc student)*
  - *Teresa Scolamacchia (LMU)*
- Detailed description of PDC deposits of Volcán de Colima, Mexico
  - *Nick Varley (Universidad de Colima, Mexico)*
  - *Yan Lavallée (University of Liverpool, UK)*
- The 16 ka caldera-forming eruption of Sete Cidades volcano, São Miguel, Azores.
  - *Adriano Pimentel and Jose Pacheco (all at CVARG)*
  - *Massimiliano Porreca (INGV L'Aquila, Italy)*
  - *Kai-Uwe Hess (LMU)*
- The effect of decompression rate on bubble nucleation and growth in analogues and silicate melts  
*(funded by NEMOH)*
  - *Bettina Scheu, Corrado Cimorelli (LMU)*
  - *Laura Spina, Fabian Wadsworth (PhD students)*
- The eruptive behaviour of Stromboli volcano, Italy
  - *Piergiorgio Scarlato, Jacopo Taddeucci (INGV Roma, Italy)*
- Structural analysis of drained basaltic dykes in New Zealand and the Canary Islands
  - *Fabian Wadsworth (LMU, PhD student)*
  - *Markus Schmid (LMU, BSc student)*
- The ejection dynamics of pyroclasts during explosive eruptions.
  - *Corrado Cimorelli (LMU)*
  - *Miguel Alatorre-Ibargüengoitia (Universidad de Tuxtla, Mexico)*
  - *Jörn Sesterhenn (TU Berlin, Germany)*
  - *Jacopo Taddeucci (INGV Rome, Italy)*

- Health issues of volcanic ash.  
*(funded by ERC)*
  - *Peter Düweil (LMU)*
  - *David Damby (LMU, PostDoc)*
  - *Claire Horwell (Durham, UK)*