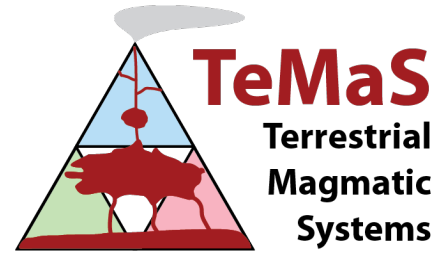


TeMaS workshop

Synthetic Volcano

Geophysical Laboratory



Time: October, 7-9 2020

Venue: Golf- und Landhotel Rheinhessen, Hofgut Wißberg,
55578 St. Johann bei Mainz

<https://www.golfhotel-rheinhessen.de/>

Note: It is easiest to get here by car

List of Participants

Last name	Name	Affiliation	Email
Baumann	Tobias	JGU Mainz	baumann@uni-mainz.de
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Preliminary Program

	Wednesday (10/7)	Thursday (10/8)	Friday (10/9)
8:00-8:30		Breakfast	Breakfast
08:30-10:30		Generating signals from forward models	Breakout session: code coupling
10:30-11:00		Coffee Break	Coffee Break
11:00-12:30		Generating signals from forward models	Breakout session: code coupling
12:30-13:30		Lunch	Lunch
13:30-15:00		Breakout sessions (2+ groups try to link their models)	Final discussion and farewell
15:00-15:30	Arrival/Coffee	Coffee Break	
15:30-18:30	Welcome, minipresentations	Presentation of results	
18:30-	Dinner	Workshop Dinner	

1 Mini-presentations (preliminary titles, please send updates to Boris)

We will kick off the meeting with everyone briefly (~20 min) explaining the others what they can compute from the provided synthetic volcano model and how this is done in practice.

What we are after is the following question: If our 3D volcano model is the reality, how would your observable signal look like? How do you (forward) compute this? We realize that this may depend on local EQ sources, station spacing etc. etc. Yet, being able to compute the signal synthetically will help us to see where combining different approaches could be helpful, and will also allow us to link our results with what others obtain from petrology, geochemistry etc.

Presenters	Title
Kaus & Spang	Model setup & using geodynamic codes to compute uplift & gravity anomalies
Junge & César	MT techniques to image the volcano
De Siena & Zhang	Computing ambient noise signals
Kaviani & Komeazi	Seismic tomography & waveform modelling
Reiss & Hering	Local EQ focal mechanisms and seismic anisotropy signals

After the first introduction, we plan to spend the rest of the workshop to actually do it, and ideally test a few different scenarios. This is mostly a hands-on workshop and we will make most progress if you have sorted out technical details (such as how to import the 3D data into your codes, or how to remotely run your models) prior to the workshop.