

Programm AG Seismologie 26-29.9.2022

Stadthotel Münster

Übersicht:

Montag, 26. 9.	Dienstag, 27. 9.	Mittwoch, 28. 9.	Donnerstag, 29. 9.
	AK Auswertung 3	AG Seismologie 3	AG Seismologie 7
	AK Auswertung 4	AG Seismologie 4	AG Seismologie 8
Mittagessen	Mittagessen	Mittagessen	Mittagessen
AK Auswertung 1	AG Seismologie 1	AG Seismologie 5	AK Wind 1 (H3)
AK Auswertung 2	AG Seismologie 2	AG Seismologie 6	AK Wind 2 (H3)
Abendessen	Abendessen	Abendessen	
		Mitgliederversammlung im Institut	

Montag 26.9.2022

ab 12.00 Mittagessen im Stadthotel

(im Preis inbegriffen für Teilnehmer registriert für Montag)

ab 12:00 Kaffee

AK Auswertung 1

14:00 Begrüßung

14:20 -15:40 Vorträge und Diskussion

Begoff: *Kalibrierung von seismischen Sensoren im Frequenzbereich von 8 mHz bis 100 Hz mit sinusförmiger Schwingungsanregung*

Schmidt-Aursch: *Aktuelles vom Deutschen Geräte-Pool für amphibische Seismologie (DEPAS)*

Wegler: *Bericht zum Thüringer Seismologischen Netz*

Rische - *RuhrNet*

Weidle – *Nordeutsche Netze*

15:40 **Kaffeepause**

AK Auswertung 2

16:20- 18:00 Vorträge und Diskussion

Dienstag

ab 8:00 Kaffee

AK Auswertung 3

8:30-10:50 Vorträge und Diskussion

10:50-11:30 **Kaffeepause**

AK Auswertung 4

11:30 -12:20 Vorträge und Diskussion

ab 12.30 Mittagessen im Stadthotel /Poster

(im Preis inbegriffen für Teilnehmer registriert für Dienstag)

AG Seismologie 1

14:00 Begrüßung (Thomas und Wegler)

14:10 Stammler: *Bericht über technische Arbeiten am Erdbebendienst des Bundes der BGR*

14:30 Haberland: *Geophysikalischer Gerätepool (GIPP) – Statusbericht 2022*

14:50 Strollo: *Recent developments at GEOFON*

15:10 Rische: *Microseismicity in relation to the rise of the mine water level and the regional stress field in the eastern Ruhr area*

15:30-16:20 **Kaffeepause und Poster**

AG Seismologie 2

16:20 Mader: *Analysis of earthquake swarms in the region of the Albstadt Shear Zone, southwest Germany*

16:40 Roth/Harrington: *Insights in fracture evolution and earthquake triggering mechanism(s) from high-resolution in-situ Vp/Vs-ratio estimates of hydraulic fracturing-induced earthquake clusters*

17:00 Roth: *Quantifying background seismicity and triggering potential in the Lower Rhine Embayment near Weisweiler, Germany*

17:20 Lindner: *From Small to Large: Tectonic Stresses and Seismic Activity in the Lesser Antilles Subduction Zone*

17:40 Sudhaus: *The 2021 Tyrnavos earthquake sequence in Greece: complex fault activation at the surface and at depth*

Parallel: Technikersitzung in H3, Hörsaalgebäude am Schlossplatz, Schlossplatz 46

Mittwoch

ab 8:00 Kaffee

AG Seismologie 3

8:20 Schlindwein: *Ambient seismic noise sources at the bottom of the Arctic Ocean: Implications for wave action and the state of the sea ice*

8:40 Schmidt-Aursch: *Noise characteristics of ocean-bottom seismometer data in the Bransfield Strait, Antarctica*

9:00 Fromm: *Seismological activities around Neumayer Station, Antarctica*

9:20 Kinzel: *Unsupervised Deep Representation Learning for Icequake Detection at Neumayer Station, Antarctica*

9:40-10:30 **Kaffeepause und Poster**

AG Seismologie 4

- 10:30 Wiesenberg: *Lithospheric evolution of eastern Arabia*
10:50 Weidle: *Seismicity and state of stress in eastern Arabia*
11:10 Detzel: *Reimagining the aftershock sequence of the 2016 Mw=7.8 Pedernales (Ecuador) earthquake with the latest machine learning-based event detection techniques*
11:30 Woollam: *Applying machine learning for event detection: From curated datasets to practical case study for the Durrës, Albania, aftershock sequence*
11:50 Münchmeyer: *Cross- and in-domain training of machine learning pickers for land- and ocean bottom datasets*
12:10 Braszus: *Towards a High Resolution 3D P- and S-wave velocity model of the Greater Alpine Region using Local Earthquake Tomography*

ab 12.30 Mittagessen im Stadthotel /Poster
(im Preis inbegriffen für Teilnehmer registriert für Mittwoch)

AG Seismologie 5

- 14:00 Koushesh: *Estimation of the Magma Intrusion Volume Rate beneath the East Eifel Volcanic Field, Germany*
14:20 Frietsch: *Current crustal movement in the East Eifel Volcanic Field – anthropogenic or volcanic?*
14:40 Houpt: *The Active Ochtendung Fault Zone Seismic Experiment – Shallow refraction tomography in the East Eifel Volcanic Field, Germany*
15:00 Eickhoff: *Abbildung der Krustenstruktur im Bereich der Eifel durch Reprozessierung der tiefenseismischen Profile DEKORP87-1A/B*
15:20 Föst: *1-D Seismic Velocity Model KIT5 and Hypocentres in the East Eifel Volcanic Field*

15:40-16:20 **Kaffeepause und Poster**

AG Seismologie 6

- 16:20 Blanck: *TURNkey: Insights into the 2021 Reykjanes Peninsula, Iceland, volcano-tectonic episode from processing new small-aperture arrays*
16:40 Vidal: *Correlated low-frequency tremor bursts and very low frequency surface deformation at Villarrica volcano, Chile*
17:00 Hupe: *A global analysis of atmospheric waves and seismoacoustic observations from the January 2022 Hunga eruption, Tonga*
17:20 Widmer-Schniedrig: *Three component ground response to the passage of the atmospheric Hunga-Tonga Lamb wave at stations of the global seismic network (GSN)*
17:40 Meier: *AdriaArray: a passive seismic experiment to study plate deformation in the central Mediterranean*

19:30-21:30 Mitgliederversammlung: In Geo315, in der Geophysik, Corrensstr 24, 48149 Münster. Für Mitglieder der AG Seismologie

Donnerstag

ab 8:00 Kaffee

AG Seismologie 7

8:20 Böse: *GEOREAL – Adaptive Stimulation an der KTB*

8:40 Eulenfeld: *Using seismic envelopes to separate the effects of source, site and path*

9:00 van Laaten: *Determination of the frequency- and depth-dependent intrinsic and scattering S-wave attenuation using the example of the Leipzig-Regensburg fault zone*

9:20 Fröhlich: *Shear wave splitting analysis and temporal misalignment of seismogram components*

9:40 Rumpker: *Testing observables for teleseismic shear-wave splitting inversions: ambiguities of intensities, parameters, and waveforms*

10:00 Gaßner: *Seismic signals from wind turbines and their relation to acoustic emissions and resident annoyance*

10:20-10:40 Kaffeepause und Poster

AG Seismologie 8

10:40 Timko: *A 3D Vs model of the Pannonian region from joint earthquake and ambient noise Rayleigh wave tomography*

11:00 Weber: *Seismo-acoustic event detection and localization by arrays and discrimination of a missile impact in western Ukraine on March 18, 2022*

11:20 Knappmeyer: *Die seismische Momenten-Rate des Mars im Lichte von Event S1222a*

11:40 Carrasco: *Empirical H/V spectral ratios at the InSight landing site and implications for the martian subsurface structure*

12:00 Kaiser: *Re-Evaluation des Erdbebens am 10.2.1871 bei Lorsch und dessen Nachbeben*

ab 12.30 Mittagessen im Stadthotel /Poster

(im Preis inbegriffen für Teilnehmer registriert für Donnerstag)

AK Wind (in H3, Hörsaalgebäude am Schlossplatz, Schlossplatz 46)

14:00 Begrüßung (Ritter)

14:20 Gärtner: *Simulations of ground motions emitted from the wind farm Tegelberg on the eastern Swabian Alb, SW Germany*

14:40 Gaßner: *Seismic velocity estimation for amplitude decay modeling of wind turbine emissions*

15:00 Rüter: *Das NRW-progress innovation-Projekt dbMISS*

15:20 Limberger: *Modelling seismic signals from wind turbines – amplitude prediction, signal correlation, and borehole effects*

15:40 weitere Vorträge und Diskussion

Poster:

Saki: *Structure of mantle transition zone and its connection to subduction in the Caribbean*

Zhang: *Large distance Pdiff coda at high frequencies*

Dahm: *A large-scale seismological experiment to study magmatic processes under the Eifel region*

Pisconti: *Mineralogy, fabric, and deformation domains in D" across the southwestern border of the African LLSVP*

Rein: *Receiver function analysis of noise reduced OBS data recorded at the ultra-slow spreading Knipovich ridge*

Rein: *Local noise sources retrieved from seismic double cross-correlations: A feasibility study in the region of Landwüst (Germany)*

Steinberg: *Evaluating the impact of source mechanism on earthquake ground motion*

Wiesenberg: *Comparison of Greens Functions calculated from high frequency marine ambient noise recorded in the Eckernförde Bay*

Ke: *Uncertainty Quantification in Radial Anisotropy Models Based on transdimensional Bayesian Inversion of Love and Rayleigh Wave Dispersion and Receiver Function: Case Study Sri Lanka*

Plenefisch: *The eruption of the Hunga Tonga-Hunga Ha'apai volcano on 15 January 2022 as observed at seismic stations in Germany*

Rochira: *On the importance of using directional information in searching for lower mantle reflectors*

Liang: *Crustal structure beneath northern Myanmar: preliminary results from ambient noise tomography*

Piasecki: *Tectonic seismic sequences in southwestern NRW*

Koushesh: *Microseismic Kandel Elztal Experiment (MiKaEl-Ex)*

Confal: *Seismic Anisotropy Patterns from Splitting Intensity in the Alps and Apennines Region and a Synthetic Subduction Model*

Sonnabend: *Momententensorinversion für schwache Lokalbeben im Herdgebiet Kraslice/Rotava (CZ)*

Lehr: *NonDC-BoVo - Non-double-couple moment tensor components and their relation to fluid flow in the West-Bohemia/Vogtland region*

Karamzadeh: *Local seismic events recorded by Distributed Acoustic Sensing (DAS) at BFO*

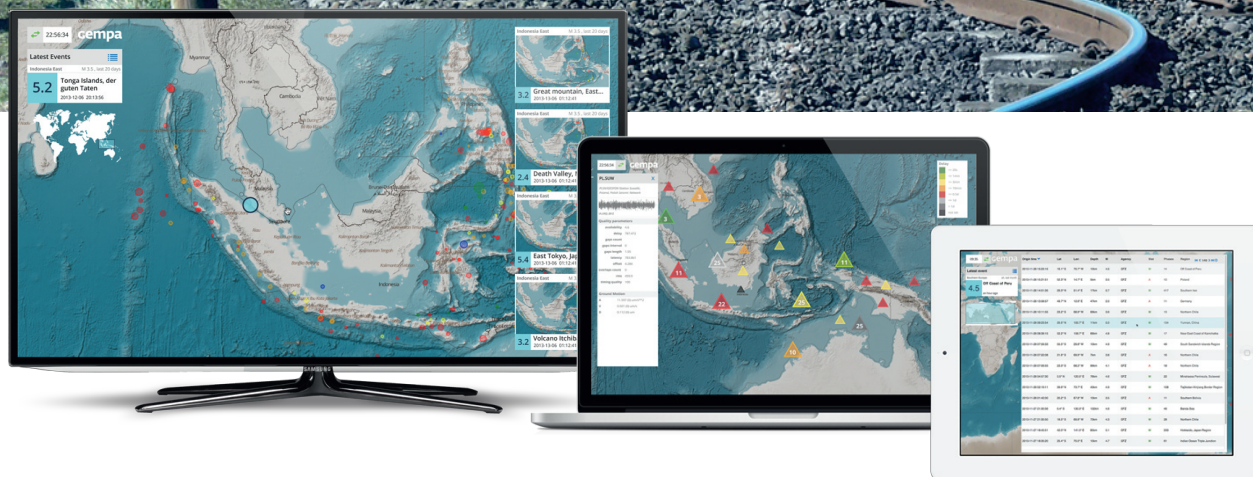
Rössler: *Erdbeben im Elsass*

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- **GDS:** Disseminate observations and alerts.

- **scanloc:** Monitor high-rate local seismicity.
- **ccloc:** Template-based cross correlation for very sensitive monitoring and event discrimination.
- **sceval:** Evaluate the quality of your solutions.
- **scqceval:** Re-configure network geometry in real time from data quality measurements.
- **npeval:** Real-time network performance analysis.
- **QuakeLink:** Real-time streaming of events in secured, redundant and high availability systems.
- **CAPS:** Multi-format, multi-sensor data acquisition in secured, redundant and high availability systems.
- **GAPS:** Analyse seismicity from anywhere through web browsers - our answer to working from home.