

GEO
SaXonia

**GEO
SCIENCES**
without
borders

DGGV Annual Meeting 2024

Dresden, 23 – 26 September 2024



PROGRAMME

www.geosaxonia2024.de

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Imprint

Programme brochure of the annual meeting of the German Geological Society (DGGV) “GeoSaxonia 2024” | 23 – 26 September 2024, MESSE DRESDEN, Dresden, Germany.

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**Deutsche Geologische Gesellschaft – Geologische
Vereinigung e.V. (DGGV)**, Rhinstraße 84, 12681 Berlin

<https://www.dggv.de>

Dresden, September 2024

Talks & posters

INSTRUCTIONS FOR ORAL PRESENTATIONS

Duration of oral presentations: 15 min. (incl. appr. 3 min. for discussion).

All conference rooms are equipped with a computer (Windows 10) and a beamer.

Please bring your presentation files saved on USB-Stick to the conference, please DO NOT bring your own notebook.

We suggest PowerPoint 16:9 (preferred; if possible no PDFs).

Upload the presentation to the computer of your session room latest in the break before your session starts. A technician will help you to upload your slides.

DOI

A DOI number (Digital Object Identifier System number) will be assigned to every abstract. All abstracts will be published in the DGGV media library:

<https://www.dggv.de/e-publikationen>

INSTRUCTIONS FOR POSTER PRESENTATIONS

Each poster should be the size of the upright German DIN A0-format which equates to 841 mm width x 1,189 mm height (33.11 in x 46.81 in).

Please note that the organizers are not able to provide print-out of posters.

POSTER AWARDS: Three best posters of (PhD) students will be selected by a jury and awarded. The selected posters will be awarded during the Closing Session on Thursday, Sept. 26.



Dear colleagues,

We are pleased to welcome you to the annual meeting of the German Geological Society (DGGV) "Geo Saxonia 2024" to be held 23 – 26 September 2024 at MESSE DRESDEN.

Our conference themed "Geosciences Without Borders" invites geoscientists from Europe and worldwide to convene for a dynamic international exchange of knowledge and experiences.

2024, the vibrant city of Dresden plays host to Geo Saxonia, embracing its historical significance and cutting-edge research landscape. Organized in partnership with DRESDEN-concept, Federal Institute for Geosciences and Natural Resources (BGR), Helmholtz-Institut Freiberg für Ressourcentechnologie (HIF), Landesamt für Umwelt, Landwirtschaft und Ge-

ologie, Sächsisches Oberbergamt, Senckenberg Society for Nature Research, Technische Universität Bergakademie Freiberg and the TUD Dresden University of Technology, GeoSaxonia 2024 promises to be a convergence of ideas and innovation.

The event features insightful plenary and keynote lectures, a comprehensive poster and industry exhibition, extensive field trips and thought-provoking discussions, aiming to foster cross-border collaborations and inspire new projects and a lively exchange.

We are looking forward to our conference. Great to have you here at GeoSaxonia in Dresden!

Cordially,

The GeoSaxonia 2024 organizers

Committee

- Iris Arndt | Goethe-Universität Frankfurt am Main
- Bernhard Cramer | Sächsisches Oberbergamt
- Frank Fischer | Staatlicher Geologischer Dienst Sachsen
- Andreas Gärtner | Senckenberg Dresden
- Alette Gabriel | Sächsisches Oberbergamt
- Jens Gutzmer | Helmholtz-Zentrum Dresden-Rossendorf
- Sinah Hoffmann | Senckenberg, Dresden
- Tom Járóka | Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie
- Moritz Kirsch | Helmholtz-Zentrum Dresden-Rossendorf
- Katrin Kleeberg | Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie
- Laura Krone | TU Berlin
- Uwe Kroner | TU Freiberg
- Lutz Kunzmann | Senckenberg Dresden
- Jan-Michael Lange | Senckenberg Dresden
- Ulf Linnemann | Senckenberg Dresden
- Jörg Matschullat | TU Freiberg
- Guido Meinhold | TU Freiberg
- Martin Meschede | DGGV
- Robert Möckel | Helmholtz-Zentrum Dresden-Rossendorf
- Thorsten Nagel | TU Freiberg
- Axel Renno | Helmholtz-Zentrum Dresden-Rossendorf
- Alexander Repstock | Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie
- Heinz-Gerd Röhling | DGGV
- Lisa Thiele | Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie
- Sebastian Weber | Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie
- Markus Wilmsen | Senckenberg Dresden
- Mandy Zieger-Hofmann | Senckenberg Dresden
- Johannes Zieger | Senckenberg Dresden



General information

WLAN

Username: **GeoSaxonia** Password: **Dresden2024**

CONFERENCE OFFICE | REGISTRATION

Phone ++ 49 (0)176-200 74 216 | E-mail GeoSaxonia2024@fu-confirm.de

Tuesday: 07:30 – 17:30 h

Wednesday: 08:00 – 17:30 h

Thursday: 08:00 – 14:30 h

HOW DO I GET TO THE DETAILED PROGRAMME AND THE ABSTRACTS?

Please scan this QR-code:



or

- go on our Conference website www.geosaxonia2024.de
- click on the menu item "Programme & Awards"
- press the red "Detailed Programme" button.

Click on the session you are interested in. Now the lectures appear with their timeslots.

If you go now to "Show Abstracts" in the menu at the top, you will see the abstracts.

You can enter any term, any author in a search window at the top right and find everything listed.

COFFEE AND LUNCH BREAKS

The catering is served in Hall 3 at posters and exhibitors. The coffee breaks and also lunch are included in the conference fee.

CONFERENCE DINNER ON WEDNESDAY, 25 SEPTEMBER 2024 | 19:00 – 23:00 h

AUDIO SAMPLE



Wood 'n' Brass

WHERE?

Ballroom and brewery »Ballhaus Watzke« | Kötzschenbroder Straße 1 | 01139 Dresden
<https://watzke.de/ball-und-brauhaus-watzke>

HOW TO GET THERE?

Directions:

There are various opportunities to get there from the conference venue MESSE DRESDEN per public transport, the travel time will be more or less 45 min.

SEQUENCE

18:30 h	Entry 50 € PhD / Doctoral Students: 45 € (including a beverage voucher)
19:00 h	Buffet opening
20:00 h	Music by Wood 'n' Brass BigBand from Freiberg
23:00 h	End

Plenary lectures

TUESDAY, 24 SEPTEMBER 2024 | 13:45 – 14:30 h | Saal Hamburg

“Raw Materials for the Energy Transition – Towards a Better Understanding of Future Supply”

Max Frenzel | Helmholtz-Zentrum Dresden-Rossendorf, Germany

WEDNESDAY, 25 SEPTEMBER 2024 | 13:00 – 13:45 h | Saal Hamburg

“Geoscience and society: Relevance of paleoclimate and paleoenvironmental research”

Antje Schwalb | TU Braunschweig, Institute of Geosystems and Bioindication, Germany

THURSDAY, 26 SEPTEMBER 2024 | 13:00 – 13:45 h | Saal Hamburg

“Climate, energy, raw materials and the sustainable development goals”

Christoph Hilgers | KIT, Institute of Applied Geosciences, Germany

Awardees 2024

AWARDING ON WEDNESDAY, 25 SEPTEMBER 2024

Leopold-von-Buch-Plakette | DGGV

Prof. Teresa E. Jordan PhD, Ithaka, New York, USA

Gustav-Steinmann-Medaille | DGGV

Prof. Dr. Lothar Ratschbacher, Freiberg

Bernd-Rendel-Preis | DFG

Panagiotis Kampouridis, Tübingen

Bernd-Rendel-Preis | DFG

Tabea Rettelbach, Potsdam

AWARDING ON THURSDAY, 26 SEPTEMBER 2024

Serge-von-Bubnoff-Medaille | DGGV

Dr. Siegfried Lächelt, Berlin

Hermann-Credner-Preis | DGGV
(Nachholung 2023)

Dr. Stefanie Tofelde, Potsdam

Hermann-Credner-Preis | DGGV

Dr. Elisabeth Eiche, Karlsruhe

Hans-Cloos-Preis | DGGV

Dr. Steffen Trümper, Münster

GENERAL AWARDING

Hanns-Bruno-Geinitz-Preis 2024 | Senckenberg

*Sebastian Germann MSc., Freiberg
(Betr.: Prof. em. Dr. Jörg Schneider)*



PROGRAMME AT A GLANCE

Tuesday 24/Sept/2024						
07:30	Registration at Foyer / Via Mobile 7					
8:30 - 10:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	08.d) Super-continentals through space and time	03.a) Mineral Exploration Economic and Ore Deposit Geology	15.a) Young Scientist Session	04.b) Deep Geothermal Energy of hydrothermal fault related and petro-thermal systems	03.c) Biohydro-metallurgy for Biomining Metal recycling and Bioremediation	DVGeo (intern)
10:00 - 10:30	Halle 3 West					
	Coffee Break & Exhibition					
10:30 - 12:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	08.d) Super-continentals through space and time	03.a) Mineral Exploration Economic and Ore Deposit Geology	12.a) Advancements on the distribution reactivity and behaviour of TCEs in aquatic systems	04.a) Geothermal Resources – from Play Analysis to Case Studies	06.a) Chemical Sediments as Archives of Earth Surface Conditions	DVGeo (intern)
12:00 - 13:00	Halle 3 West					
	Lunch Break and Exhibition					
13:00 - 13:45	Saal Hamburg					
	Opening Ceremony					
13:45 - 14:30	Saal Hamburg					
	Plenary #1 Max Frenzel					
14:30 - 15:00	Halle 3 West					
	Coffee Break & Exhibition					
15:00 - 16:30	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	01.c) Regional geology and palaeogeography	03.f) Exploration of Evaporites and their importance for Resources	14.a) Geodata management and 3D visualization techniques	08.c) Latest Achievements in Scientific Ocean and Continental Drilling	05.f) Hydrogen in the energy transition	03.g) Advances in pegmatite exploration
16:30 - 17:30	Halle 3 West					
	Poster social					
17:30 - 19:30	Saal Hamburg					
	DGGV Mitgliederversammlung					

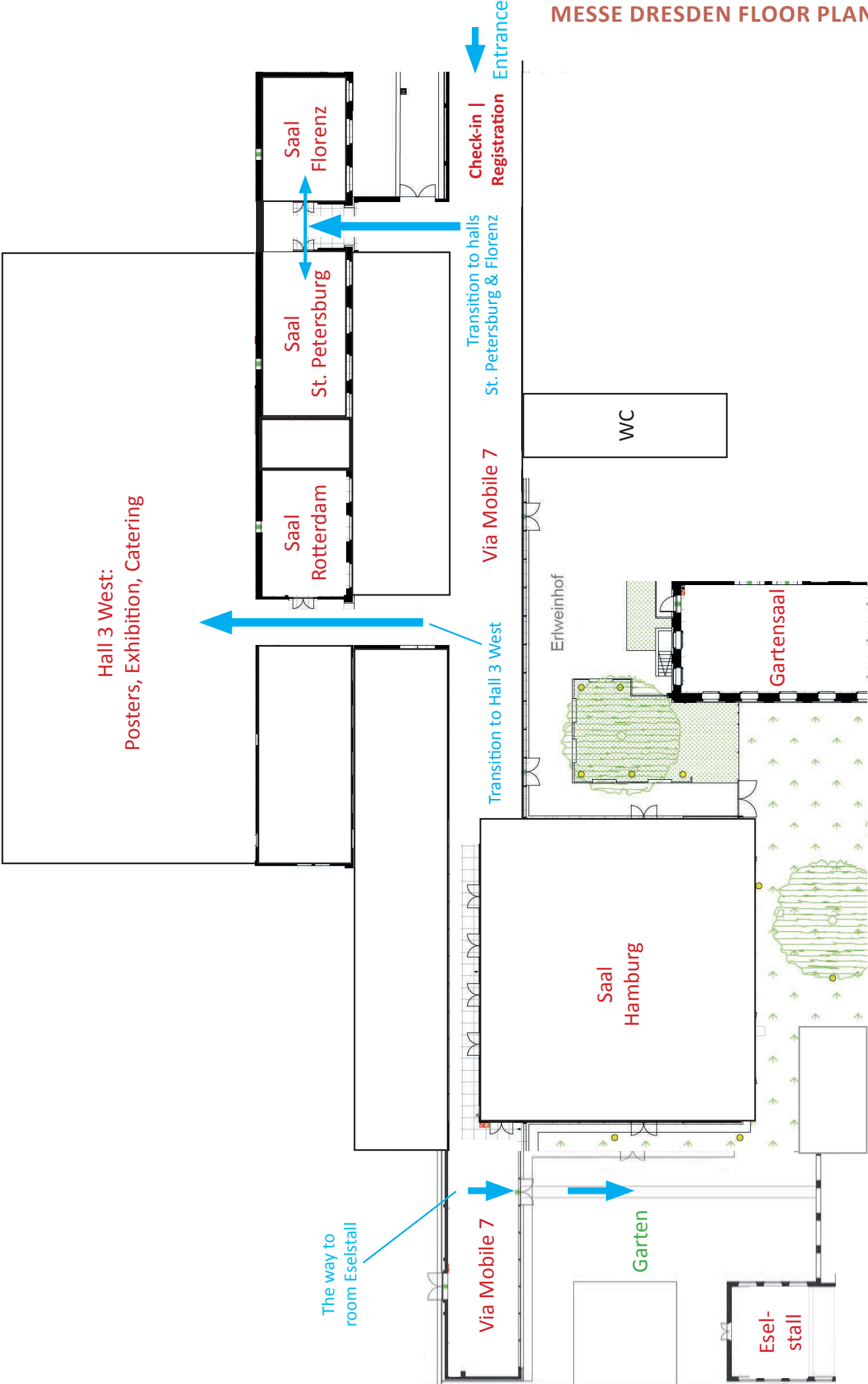
Wednesday 25/Sept/2024						
08:00	Registration at Foyer / Via Mobile 7					
8:30 - 10:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	10.a) Recent Developments of Geoanalytical Methods	02.c) Sedimentary basins across time	05.a) Host rock characterization and long-term safety	08.a) Magmatism volcanism and related processes	Lehrer - Workshop Earth Learning Ideas	Workshop GeoArmadillo
10:00 - 10:30	Halle 3 West					
	Coffee Break and Exhibition					
10:30 - 12:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	
	10.a) Recent Developments of Geoanalytical Methods	02.a) Stratigraphy – dissecting geological time	05.a) Host rock characterization and long-term safety	08.a) Magmatism volcanism and related processes	Lehrer - Workshop Earth Learning Ideas	
12:00 - 12:45	Eselstall					
	Podiumsdiskussion Lehrende					
12:00 - 13:00	Halle 3 West					
	Lunch Break and Exhibition					
13:00 - 14:00	Saal Hamburg					
	Plenary #2 Antje Schwalb					
	DGGV & DFG Awards					
14:00 - 14:30	Halle 3 West					
	Coffee Break and Exhibition					
14:30 - 16:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	08.e) Tectonic Systems - TSK Open Session	05.c) Groundwater under quality stress	14.c) Data Meets Earth: AI-Driven Innovations in Geoscience	08.a) Magmatism volcanism and related processes	Lehrer - Workshop Earth Learning Ideas	GeoKarrierpfade jDGGV
16:00 - 17:30	Halle 3 West					
	Poster social					
19:00 - 23:00	Ballhaus Watzke					
	Conference Dinner					



PROGRAMME AT A GLANCE

Thursday 26/Sept/2024						
08:00	Registration at Foyer / Via Mobile 7					
8:30 - 10:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	06.b) Isotopes in geosciences	07.b) Palaeo-environmental analysis from proxies	13.b) Geoscience Education Research	01.a) Recent advances in geophysical and geological data integration	14.b) How can research data infrastructures meet geosciences needs	
10:00 - 10:30	Halle 3 West					
	Coffee Break and Exhibition					
10:30 - 12:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	06.b) Isotopes in geosciences	07.b) Palaeo-environmental analysis from proxies	05.b) Blurring boundaries and rising responsibilities? – Geoscience & Society	01.b) 3D Geological Modeling: Technical Advancements and Regional Geological Insights	03.b) Communicating responsible management of natural resources	
12:00 - 13:00	Halle 3 West					
	Lunch Break and Exhibition					
13:00 - 14:00	Saal Hamburg					
	Plenary #3 Christoph Hilgers					
	DGGV Awards					
14:00 - 14:30	Halle 3 West					
	Coffee Break and Exhibition					
14:30 - 16:00	Saal Hamburg	Saal St. Petersburg	Saal Rotterdam	Gartensaal	Eselstall	Saal Florenz
	08.f) Interactions between mountain building climate and biodiversity	03.e) Mineralische Baurohstoffe – in Forschung und Inwertsetzung	05.b) Blurring boundaries and rising responsibilities? – Geoscience & Society	01.b) 3D Geological Modeling: Technical Advancements and Regional Geological Insights		
16:00 - 16:30	Saal Hamburg					
	Closing Ceremony with Poster Awards					

MESSE DRESDEN FLOOR PLAN



NOTES



A BIG THANK YOU

...to all the supporters of our conference:

- DRESDEN-concept
- Federal Institute for Geosciences and Natural Resources (BGR)
- Helmholtz-Institut Freiberg für Ressourcentechnologie (HIF)
- Landesamt für Umwelt, Landwirtschaft und Geologie
- Sächsisches Oberbergamt
- Senckenberg Society for Nature Research
- Technische Universität Bergakademie Freiberg
- TUD Dresden University of Technology

...and to our exhibitors and sponsors:

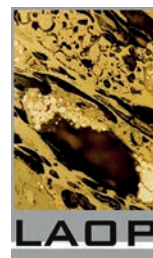
DIAMOND



GOLD



SILVER



BRONZE

