

Annual Report 2021

IAMG Student Chapter Freiberg & Dresden

Webpage: <https://tu-freiberg.de/iamg>

E-Mail: sc.freiberg@iamgmembers.org

General Information

Since our last hybrid presentation by Prof. Dr. Hans-Jürgen Götze in October 2020 all our activity is taking place online due to the many restrictions on the part of the Universities Freiberg and Dresden concerning Covid-regulations. The resulting lack of personal interaction impeded us to recruit prospective new board members. Therefore, we didn't elect a new Student Chapter Board in 2021. Our president Sonja Frölich is back from maternity leave since January 2022 and all other positions remain as elected in September 2020 (table 1). Student chapter secretary Theresa Schaller will be on maternity leave presumably from July 2022.

Table 1: Current Student Chapter Board

President	Sonja Frölich	froelich@geo.tu-freiberg.de
Vice President	Eric Buchta	Eric.buchta@tu-dresden.de
Secretary	Theresa Schaller	Theresa.schaller@tu-dresden.de
Treasurer	Bruno Grafe	Bruno.Grafe@mabb.tu-freiberg.de
Webmaster	Georg Semmler	Georg.semmler@mailserver.tu-freiberg.de

Faculty Advisor	Dr. Peter Menzel	Peter.menzel@geophysik.tu-freiberg.de
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Nevertheless, we carried out seven online presentations by people closely related to the Student Chapter members. We enjoyed a lot of new topics such as geotechnical challenges and earthquakes as well as methodological input followed by bracing discussions. You find a detailed list of the events below.

Unfortunately, we could not execute the planned hiking excursion to outstanding geological spots between Freiberg and Dresden in 2021. That's why we are planning to have it in summer 2022. In 2021 we started to plan a methodological short course about interpolation with a focus on Kriging and Principal Component Analysis. This is a very interesting topic, and we hope to have a big popularity among the students. We hope for an in-person or at least hybrid event but it stays still unsure how the restrictions will be this year due to the pandemic. So, the format of the course is still in discussion.

Student Chapter Events

- 2021/12/09 (17:30 Online) Presentation by Dr. Hortencia Flores Estrella (TU Berlin): **19th September: a date marked by earthquakes in Mexico City (second part)**
- 2021/11/25 (16:30 Online) Presentation by MSc. Matthias Willen (TU Dresden): **Satellite data enables the determination of ice mass changes and solid-earth deformation in Antarctica**
- 2021/07/30 (15:30 Online) Presentation by Dr. Hortencia Flores Estrella (TU Berlin): **19th September: a date marked by earthquakes in Mexico City**
- 2021/06/10 (17:30 Online) Presentation by MSc. Paul Gabriel (GiGa infosystems, Freiberg): **Why geological data should be managed properly**
- 2021/05/27 (17:30 Online) Presentation by MSc. Philipp Zingerle (Technische Universität München): **Gravity Field Processing: From Observations to Global Models**
- 2021/04/15 (17:30 Online) Presentation by MSc. Erik Loebel (Technische Universität Dresden, Professur für Geodätische Erdsystemforschung): **Automated extraction of glacier calving front locations from optical satellite imagery using deep learning: methodology and application to Greenland outlet glaciers**
- 2021/03/18 (17:30 Online) Presentation by MSc. Lisa Thiele (Landesamt für Umwelt, Landwirtschaft und Geologie): **Geological investigations at the planned railway line Dresden-Prague (figure 1)**

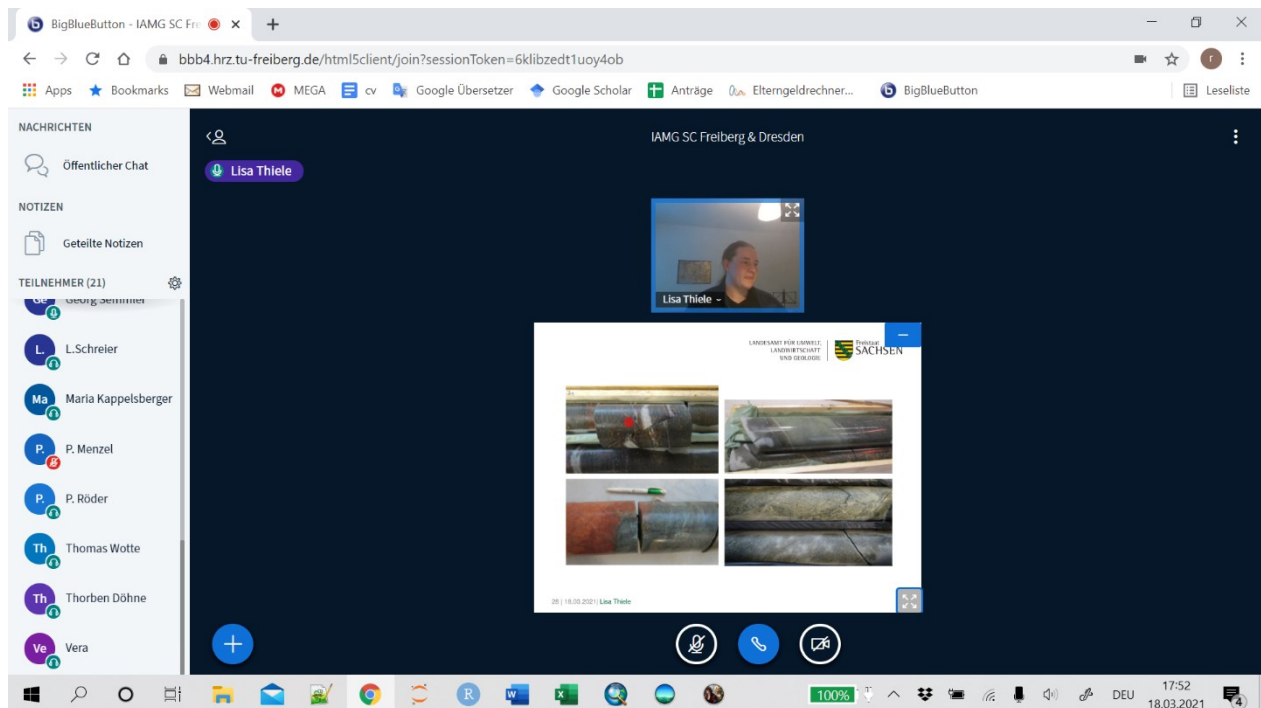


Figure 1: Impression from the online presentation by MSc. Lisa Thiele 2021/03/18