

## TUM Incentive Fund

Research partnership between the  
**Department of Civil Engineering of the UFRGS, Porto Alegre**  
and the  
**Chair of Soil Mechanics and Foundation Engineering, Rock Mechanics  
and Tunnelling of the TUM, Munich**



### 2<sup>nd</sup> Workshop UFRGS-TUM (in Munich)

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#### Program for the 2nd Workshop of the UFRGS and the TUM in Munich

## Tue - 29<sup>th</sup> of August, 2017

Venue: TUM Arcisstraße

**08:45 – 09:00**    **Reception and Introduction**  
Prof. Dr.-Ing. Cudmani (TUM)

#### **Session 1: Geotechnical and geo-environmental aspects of the design and construction of tailings impoundments:**

09:00 – 10:00    Safe and sustainable Deposits for Tailings: Requirements and Challenges  
Dr.-Ing. Karl Kast (Dr.-Ing. Karl Kast + Partner (GbR))

10:10 – 10:25    Coffee break

10:25 – 11:10    Accidents and incidents with tailings dams: how to prevent and mitigate it?  
Mr. Rafael Jabur Bittar (Yamana Gold Inc.)

11:20 – 12:05    Design, operation and closure of tailings (*working title*)  
Mr. Ryan Williams (srk consulting)

12:15 – 13:45    Lunch break

#### **Session 2: Material behavior of tailings and improvement part I:**

13:45 – 14:45    On the characterization of the behavior and the determination of properties of tailings  
Prof. Dr. Fernando Schnaid (UFRGS)

14:55 – 15:40    Dynamic liquefaction and spontaneous liquefaction  
Prof. Dr.-Ing. Roberto Cudmani (TUM)

15:50 – 16:05    Coffee break

16:05 – 16:50    Time-dependent behavior of fine grained materials  
Dr.-Ing. Stefan Vogt (TUM)

**17:00**            **End of first day (City stroll, Park Café Biergarten/Ratskeller)**

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## Wed - 30<sup>th</sup> of August, 2017

Venue: TUM Arcisstraße

### Session 3: Material behavior of tailings and improvement part II:

09:00 – 10:00	New developments on improved mine tailings Prof. Dr. Lucas Festugato (UFRGS)
10:10 – 10:25	Coffee break
10:25 – 10:55	Sedimentation of tailings material and soil formation Prof. Dr.-Ing. Alexander Scheuermann (UQ)
11:05 – 11:50	The behavior of oil sands ( <i>working title</i> ) Dr. Arcesio Lizcano (srk consulting)
12:00 – 14:00	Lunch break
14:00 – 14:45	The Use of Geosynthetics in Mining Applications – Strengths, Limitations and Research Opportunities Kent P. von Maubeuge (NAUE GmbH)
14:55 – 15:40	Saturated and partly saturated flow of water in tailings / Tailings dewatering Dr.-Ing. Emanuel Birle (TUM)
15:50	Closure of the public part of the workshop Prof. Dr.-Ing. Cudmani (TUM)

**End of the official (public) part of the workshop**

### Identification and discussion of research topics:

16:00 – 17:30	Small group work & discussions Group 1: Design, behavior of tailings and liquefaction TUM/UFRGS: Schnaid, Cudmani, Vogt Others: <i>Lizcano, Williams, Bittar, Jacinto</i>  Group 2: Improvement of tailings behavior and hydromechanical aspects TUM/UFRGS: Festugato, Birle, Bräu, Henzinger Others: <i>K.v.Maubeuge</i>
17:30	<b>End of second day</b>

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## Thu - 31<sup>th</sup> of August, 2017

Venue: TUM ZG, Pasing

### Laboratory visit, Funding mechanisms, Publications meeting

09:00 – 09:30	Summary of Tue, Wed and perspectives (30 min) Schnaid, Cudmani
09:30 – 10:30	Laboratory visit
10:30 – 12:00	Presentations - Funding mechanisms (4 x 15 min, 30 min questions & discussion) BAYLAT (Ms. Freitag), BayFOR (Ms. Reiter), BMBF (not confirmed), DAAD (not confirmed), TUM International Center (Mr. Beisser, Ms. Grünhagen)
12:00 – 13:00	Lunch break
13:00 – 16:00	Publications meeting TUM/UFRGS <i>Participants of the project will establish short term goals (next steps) to produce relevant publications.</i>

***Evening Program: Barbeque at ZG***

## Fri – 1<sup>st</sup> of September, 2017

Venue: TUM ZG, Pasing

Informal meetings