

Penstocks, pressure shafts & pressure tunnels

workshop



EurCOLD
Working Group

November 21st
2024



Picture: F.G. Piki

**Online &
in presence**

organized and
supported by

Date and time

Location



November 21, 2024
08:00 - 21:30, UTC +1



TU Graz
Lecture Hall HS I
Rechbauerstraße 12
A-8010 Graz (Austria)

Registration

@ Via ewg2024@tugraz.at by November 15, 2024



ATCOLD
Austrian Commission on Large Dams



mokveld



November 21, 2024 - Morning session

8:00 - 9:00

Registration

9:00 - 9:30

Opening remarks

Alfredo Granados / Sera Lazaridou, General Secretary of EurCOLD / EURCOLD President (online)
Gerald Zenz, ATCOLD President, **Stefan Haun**, Head of IWB institute TU Graz
Antonella Frigerio, Coordinator of the EWG "Penstocks & Pressure shafts"

09:30 - 10:45

Session I – Chair Prof. Stefan Haun

09:30 - 09:55

Using transients in penstocks for diagnostic purposes
Marco Ferrante, Università degli Studi di Perugia

09:55 - 10:20

Framework for fatigue crack growth assessment in steel-lined pressure shafts
Alexandre Pachoud, Swiss Federal Office of Energy SFOE

10:20 - 10:45

The Japanese Technical Standards for Penstocks (Steel and FRP)
Hiroshi Murayama, Consulting Engineer

10:45 - 11:15

Coffee break – Sponsor: Mokveld Valves B.V.

11:15 - 12:30

Session II – Chair Prof. NorbertENZINGER

11:15 - 11:40

Ampezzo power plant: penstock rehabilitation
Roberto Castellano, A2A

11:40 - 12:05

Case studies of rehabilitation of penstocks in South Tyrol
Giulio Lanzingher, ALPERIA

12:05 - 12:30

Case studies rehabilitation works in high pressure concrete shafts and tunnels by installation of geosynthetic liners
Marco Bacchelli, MAPEI

12:30 - 14:00

Lunch time



Picture: roberkfillemann.com

Rechbauerstraße 12



November 21, 2024 - Afternoon session

14:00 - 15:30

Session III – Chair Prof. Gerald Zenz

14:00 - 14:25

Non-conformities found in welded fabrication in the workshop and on site on penstocks and linings of pressure tunnels or shafts

Eric Barthelet, Swiss Welding Association

14:25 - 14:50

Problems in a spiral weld

Norbert Enzinger, Graz University of Technology

14:50 - 15:05

The EWG Bulletins on pressurized waterways: work in progress

Antonella Frigerio, RSE

15:05 - 15:30

Bulletin “Pressurized waterways: state-of-the-art”

Nicolas Crocheton, Tractebel

15:30 - 16:00

Coffee break

16:00 - 17:15

Session IV – Chair Antonella Frigerio

16:00 - 16:25

Bulletin “Pressurized waterways: surveillance and control methodologies, maintenance and rehabilitation activities, main recurring problems”

Carmen Badina, EDF

16:25 - 16:50

Bulletin “Pressurized waterways: design and safety assessment”

Wolfgang Richter, TUGRAZ University

16:50 - 17:15

Bulletin “Pressurized waterways: risk assessment and insurance issues”

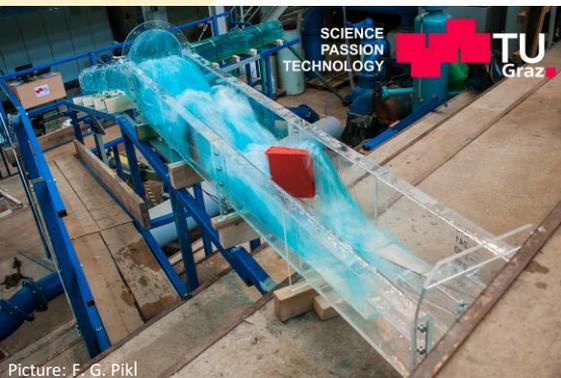
Luigi Papetti, Frosio Next

17:15 - 17:30

Open discussion and closing of the Workshop

17:30 - 21:30

Visit of the Hydraulic Laboratory with light dinner



Picture: F. G. Píkl



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Picture: IWB



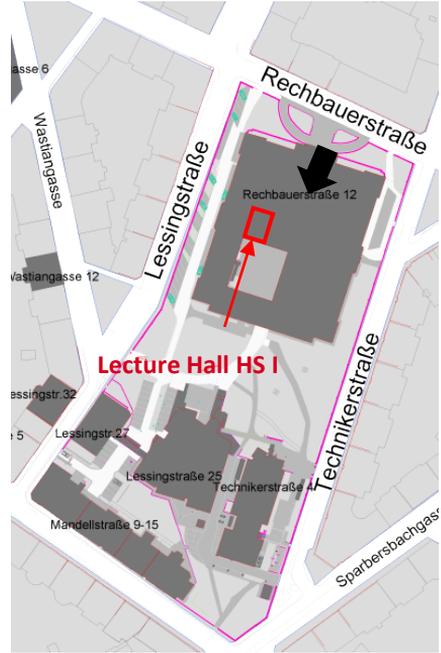
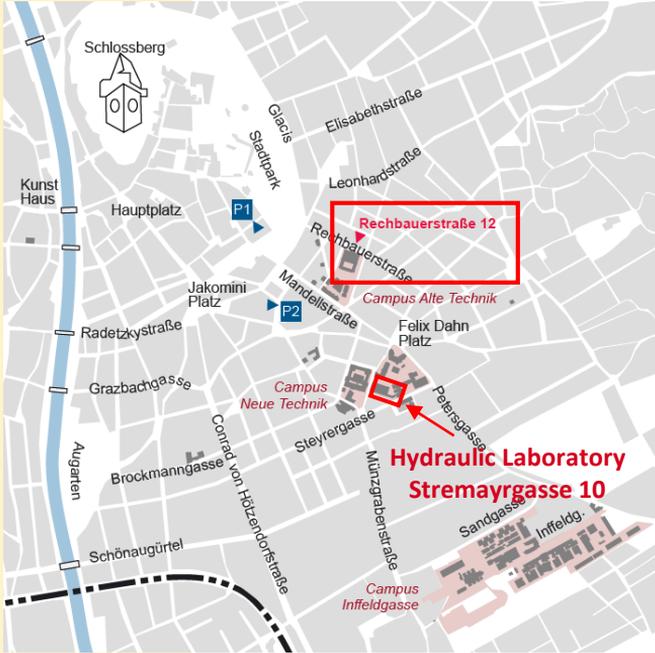
Picture: IWB



Picture: IWB



General information



Rechbauerstraße 12
Entrance

