

Penstocks, pressure shafts & pressure tunnels

workshop



EurCOLD
Working Group

November 21st
2024



Picture: F.G. Pikel

**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 II
Rechbauerstraße 12
A-8010 Graz (Austria)

Registration via



<https://atcold.at/eurcold-working-group-workshop/>
(End of registration 14 November 2024, 23:59)
Please send your questions to: ewg2024@tugraz.at





8:00 - 9:00

9:00 - 9:30

09:30 - 10:45

09:30 - 09:55

09:55 - 10:20

10:20 - 10:45

10:45 - 11:15

11:15 - 12:30

11:15 - 11:40

11:40 - 12:05

12:05 - 12:30

12:30 - 14:00



November 21, 2024 - Morning session

Registration

Opening remarks

Michel Lino, President of ICOLD

Alfredo Granados / Sera Lazaridou, General Secretary of EurCOL / EURCOL President (online)

Gerald Zenz, ATCOL President, **Stefan Haun**, Head of IWB institute TU Graz

Antonella Frigerio, Coordinator of the EWG "Penstocks & Pressure shafts"

Session I – Chair Prof. Stefan Haun

Using transients in penstocks for diagnostic purposes

Marco Ferrante, Università degli Studi di Perugia

Framework for fatigue crack growth assessment in steel-lined pressure shafts

Alexandre Pachoud, Swiss Federal Office of Energy SFOE

The Japanese Technical Standards for Penstocks (Steel and FRP)

Hiroshi Murayama, Consulting Engineer

Coffee break – Sponsor: Mokveld Valves B.V.

Session II – Chair Prof. Norbert Enzinger

Ampezzo power plant: penstock rehabilitation

Roberto Castellano, A2A

Case studies of rehabilitation of penstocks in South Tyrol

Giulio Lanzingher, ALPERIA

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

Marco Bacchelli, MAPEI

Lunch time



Picture: robertillemann.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

Failure case analysis and countermeasures in a spiral welded pipeline

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”

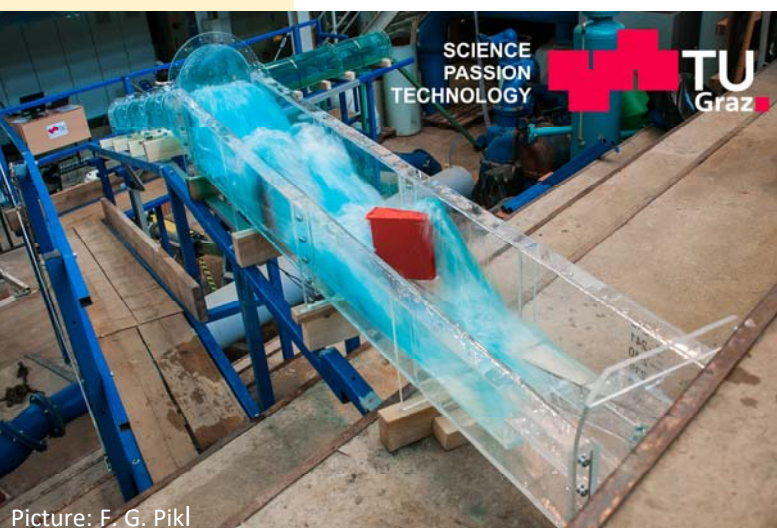
Luigi Papetti, Frosio Next

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



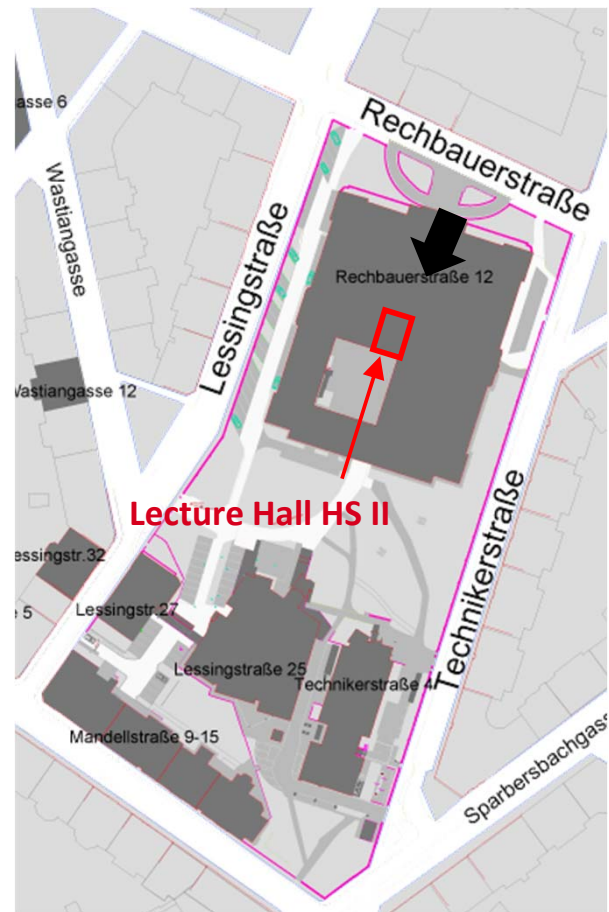
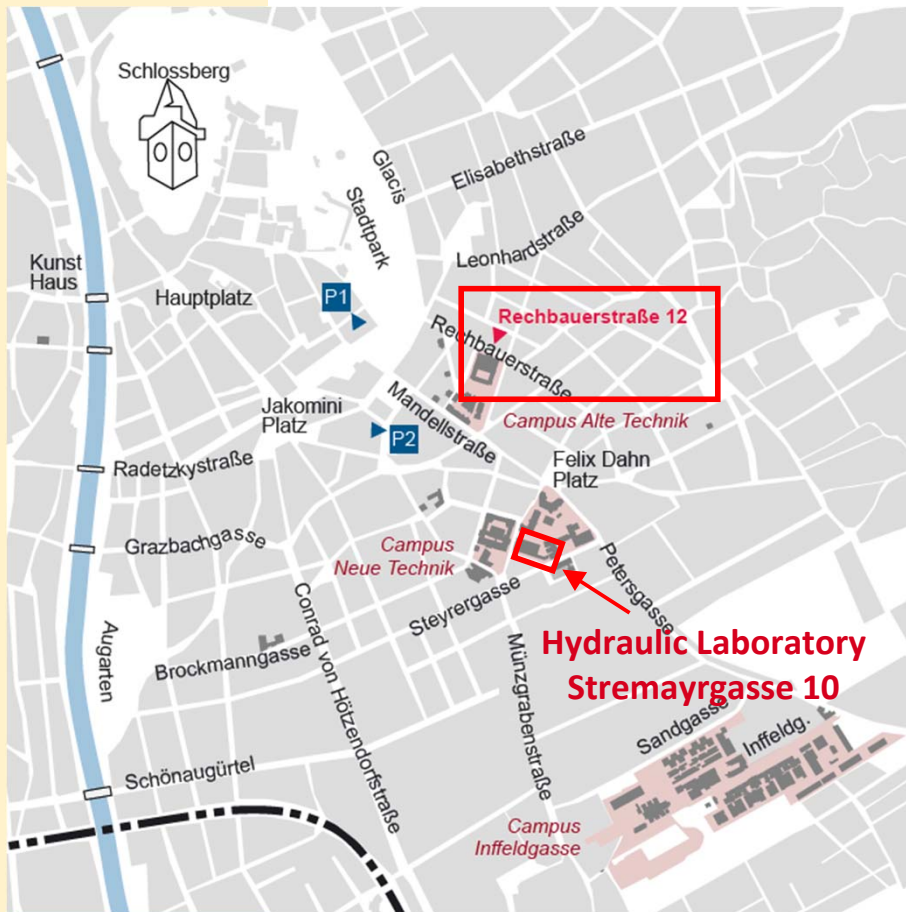
Picture: IWB



Picture: IWB



General information



Rechbauerstraße 12
Entrance

