
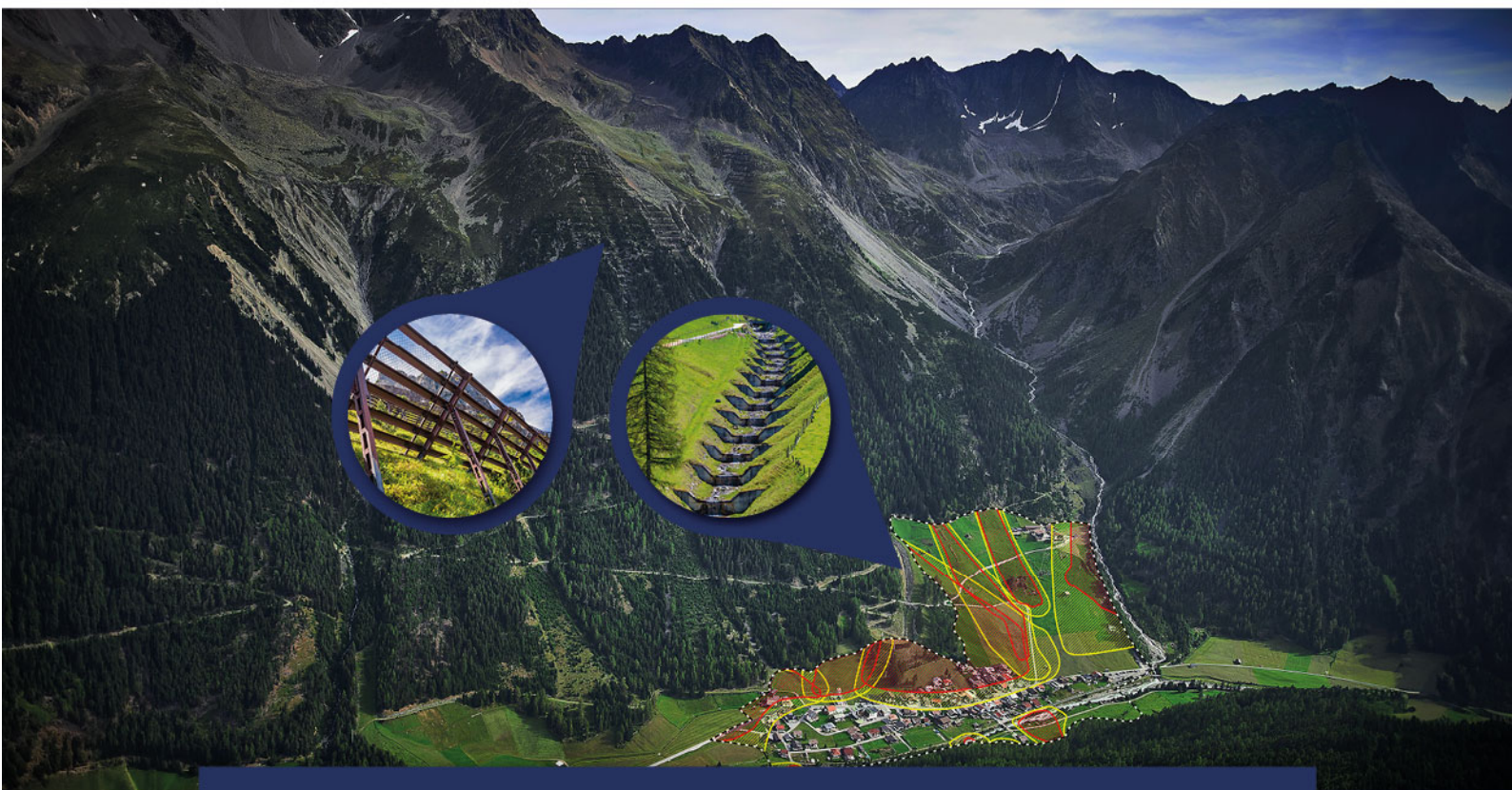


Organizers:

 Wildbach- und  
Lawinerverbauung  
Forsttechnischer Dienst

**BFW** AUSTRIAN  
RESEARCH  
CENTRE  
FOR FORESTS

 **congress  
messe  
INNSBRUCK**



# INAC CONFERENCE

INDUSTRY MEETS SCIENCE

MAY 5-7  
CONGRESS INNSBRUCK

## PROGRAM

**INAC**  
INTER-ALPINE  
NATURAL HAZARDS  
CONFERENCE 

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# WELCOME

## Welcome to the INAC 2025!

It is our great pleasure to cordially invite you to participate in the **Inter-Alpine Natural Hazards Conference** (INAC 2025, Innsbruck), which will be held from Monday, 5<sup>th</sup> May to Wednesday, 7<sup>th</sup> May 2025, at the Congress Innsbruck, Austria.

### Industry Meets Science

The Inter-Alpine Natural Hazards Conference (INAC) has the overarching goal of merging the knowledge of key actors, decision makers and operators in industry, infrastructure, engineering and research. In conjunction with the world leading international trade fair INTERALPIN the INAC adds additional value for sustainable protection approaches in natural hazards and risk management.

Focal points of the conference are technical protection measures, nature-based solutions and innovative safety concepts for natural hazard processes, such as snow avalanches, debris flows, floods, rockfall or storms in a rapidly adapting alpine environment and changing climate conditions.

### Target Groups

- ✓ Science and research
- ✓ Application industries, manufacturers and producers who deal with measures to detect and prevent natural hazards
- ✓ Relevant authorities, entities, institutions and organizations
- ✓ Municipalities and federal states
- ✓ Infrastructure companies in the road, rail and mountain railroad sectors
- ✓ Engineering and planning offices

We are very much looking forward to welcoming you to Innsbruck, Austria!

The INAC Organizing Committee

# PROGRAM OVERVIEW

Monday, 5th May 2025	
	<b>Congress Innsbruck</b>
01.45 pm - 02.00 pm	Congress Opening
02.00 pm - 03.15 pm	<b>Session 1: Natural Hazard Management in an Adapting Alpine Environment</b>
02.00 pm - 02.15 pm	Managing Alpine Hazards in a Changing Climate - Challenges and Solutions
02.15 pm - 02.30 pm	How Does Climate Change Affect the Snow Conditions and Snowmaking Capabilities of Ski Areas in Austria?
02.30 pm - 02.45 pm	Natural Hazard Management and Change Processes in Ski Resorts
02.45 pm - 03.00 pm	Avalanche Mitigation in a Changing Climate and Its Public Perception in Austria
03.00 pm - 03.15 pm	Monitoring of Glacier Risks at a Regional Scale
03.15 pm - 04.00 pm	<b>Coffee Break</b>
04.00 pm - 5.15 pm	<b>Session 2: Gravitational and Hydrological Hazard Processes in a Changing Climate</b>
04.00 pm - 04.15 pm	Runoff Processes in Alpine Catchments - Characteristics, Triggers and their Changes
04.15 pm - 04.30 pm	New Normative and Digital Instruments in Avalanche Protection
04.30 pm - 04.45 pm	Rock Fall and Rock Avalanches in the High Alpine Environment
04.45 pm - 05.00 pm	Lessons learnt from the Debris Floods that Occured During Storm Alex, 02/10/2020 (French Maritime Alps)
05.00 pm - 05.15 pm	Marmolada Glacier, July 3, 2022: from the Collapse to the Rescue, from Monitoring for Safety Purposes to the Understanding of the Causes of the Event
05.15 pm - 05.40 pm	<b>Symposium: Monitoring Site Ranalt - Flexible Barrier Designed for Catching Avalanches Exposed to an Unexpected Debris Flow Event</b>
06.00 pm	<b>Welcome Reception</b>

Wednesday, 7th May 2025	
	<b>INTERALPIN @ Messe Innsbruck</b>
11.15 am - 12.15 pm	<b>INTERALPIN Inspiration Days: Focus on Natural Hazards</b>
11.15 am - 11.45 am	Natural Hazard Management in an Adapting Alpine Environment and Compound Events and Cascading Process Chains - A Cross Section
11.45 am - 12.15 pm	Gravitational and Hydrological Hazard Processes in a Changing Climate and Sustainable Protection Measures and Safety Concepts - A Cross Section
12.15 pm - 18.00 pm	<b>Open INTERALPIN VISIT</b>

# PROGRAM OVERVIEW

Tuesday, 6th May 2025	
	<b>Congress Innsbruck</b>
09.00 am - 10.30 am	<b>Session 3: Sustainable Protection Measures and Safety Concepts</b>
09.00 am - 09.15 am	Climate Risk Assessment Approaches for the Infrastructure Sector: Insights from National and International Projects
09.15 am - 09.30 am	Global Change Impacts on Avalanche Protective Forests: What Do We Know and Where Do We Grow from Here?
09.30 am - 09.45 am	Central Office for Engineering Structures and Georisks: Management of Geohazards on Roads of the Bavarian Road Administration and the Monitoring of Protective Structures Against Alpine Natural Hazards
09.45 am - 10.00 pm	Non-Structural Mitigation Measures: the Experience of the Debris Flow Warning in the Boite Valley, Dolomites (Veneto Region, Italy)
10.00 am - 10.15 am	Safety Concepts for Remote Avalanche Control Systems - Example from Switzerland
10.15 am - 10.30 am	Road Protection in Tyrol Using Examples from the Landeck District
10.30 am - 11.15 am	<b>Coffee Break</b>
11.15 am - 12.45 pm	<b>Session 4: Compound Events and Cascading Process Chains</b>
11.15 am - 11.30 am	Compound and Cascading Processes - New Challenges Ahead?
11.30 am - 11.45 am	Risk Management in the Field of Weather and Avalanche Warning Services for Railway Infrastructure Providers
11.45 am - 12.00 pm	Hazard Mapping in Norway: A Multi Process Site with a Long History
12.00 pm - 12.15 pm	Torrent Processes and Climate Changes - Protective Engineering Adaptation Strategies from Practical Engineering Experience
12.15 pm - 12.30 pm	Historical Experiences on Avalanche Mitigation in Widespread Settlements in Norway and Demands on Future Development
12.30 pm - 12.45 pm	Guideline for Reducing the Impact of Forest Roads on Surface Runoff
12.45 pm - 03.00 pm	<b>Lunch Break</b>
	<b>INTERALPIN @ Messe Innsbruck</b>
03.00 pm - 05.30 pm	<b>Session 5: Innovative Solutions for Natural Hazards - Industry Sessions</b>
	<b>Congress Innsbruck</b>
07.30 pm	<b>Snow Crystal Gala</b>

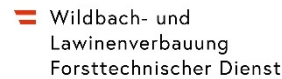
## COMMITTEES

### INAC Organizing Committee

BFW (Austrian Research Centre for Forests)



WLV (Forest Engineering Service for Torrent and Avalanche Control)



CMI (Congress Messe Innsbruck)



### Program Committee

Bayrische Landesamt für Umwelt

DCNA (Disaster Competence Network Austria)

GeoSphere Austria

INFRA 2050

INTERPRAEVENT Association

University of Innsbruck

NVE (Norwegian Water Resources and Energy Directorate)

ÖBB (Österreichische Bundesbahnen)

WSL (Forschungsanstalt für Wald, Schnee und Landschaft)

we4DRR (woman exchange for Disaster Risk Reduction)

WPMMW (Working Party on the Management of Mountain Watersheds)

Agentur für Bevölkerungsschutz – Autonome Provinz Bozen – Südtirol

Standortagentur Tirol

NGI (The Norwegian Geotechnical Institute)

BFW (Austrian Research Centre for Forests)

WLV (Forest Engineering Service for Torrent and Avalanche Control)

CMI (Congress Messe Innsbruck)

## CONTACT

### Congress Organization

PCO Tyrol Congress

Rennweg 3

A-6020 Innsbruck

T: +43 (0) 512 575600

E: [inac@cmi.at](mailto:inac@cmi.at)



### Venues

Congress Innsbruck

Rennweg 3

A-6020 Innsbruck



Messe Innsbruck

Ing.-Eitzel-Straße 31

A-6020 Innsbruck



### Website

[inac-conference.com](http://inac-conference.com)



# VENUE

## Congress Innsbruck

INAC 2025 will be held at Congress Innsbruck starting with the Congress Opening on Monday, 5<sup>th</sup> May 2025.

The venue Congress Innsbruck is situated right at the city centre making it possible for visitors of congresses to enjoy a car-free stay. The award-winning event venue offers a wide range of space and is geared to cater for individual requirements and wishes – from compact seminars to major congresses.

## INTERALPIN 2025 (Industry Session) & INTERALPIN Inspiration Days

The last session of the congress will be held as **guided tours at the INTERALPIN** trade fair, which is the world’s leading trade fair for alpine technologies.

The INTERALPIN takes place at Messe Innsbruck, which is located just a few minutes’ walk from the Imperial Gardens and Tyrol’s largest exhibition center.

INTERALPIN is the leading international trade fair for alpine technologies and a central meeting point for the industry. It brings together innovative solutions and the latest developments in the fields of ropeway technology, snow management, slope grooming, access control, safety, the leisure industry and much more. Experts from all over the world use INTERALPIN, which will take place from Tuesday, 6<sup>th</sup> May to Friday, 9<sup>th</sup> May 2025, to exchange ideas, network and discover pioneering technologies that are revolutionizing Alpine tourism and urban transportation.

The INTERALPIN Inspiration Days consist of top-class keynotes, specialist presentations and panel discussions on various topics such as innovation, marketing, digitalization, sustainability and, this year, a focus on natural hazards.

# REGISTRATION

Online registration for the congress is open.

Early Registration Fee until 9<sup>th</sup> March 2025, 11:59 pm.

Regular Registration Fee from 10<sup>th</sup> March 2025, until 4<sup>th</sup> May 2025, at 11:59 pm.

Please register for the congress at [inac-conference.com](https://inac-conference.com)

You are also welcome to register directly on site at Congress Innsbruck from Monday, 5<sup>th</sup> May, 2025.

## Registration Fees

Early Registration Fee until 9 <sup>th</sup> March 2025	
Full Congress	340,00 €
Young Researcher and Young Professionals*	125,00 €

Regular Registration Fee from 10 <sup>th</sup> March until 4 <sup>th</sup> May 2025	
Full Congress	360,00 €
Young Researcher and Young Professionals*	125,00 €

On Site Registration Fee from 5 <sup>th</sup> May 2025	
Full Congress	380,00 €
Young Researcher and Young Professionals*	125,00 €

\*Proof of studies is required.

## REGISTRATION

### Conference Registration Fee includes:

- ✓ Welcome Reception on 5<sup>th</sup> May 2025
- ✓ Participation in all sessions
- ✓ Coffee breaks
- ✓ Lunch on 6<sup>th</sup> May 2025
- ✓ Visit of INTERALPIN

### Conference Registration Fee does NOT include:

- ✓ Participation in the Snow Crystal Gala 6<sup>th</sup> May 2025
- ✓ Accommodation

### Registration Details

Registration will only be confirmed upon receipt of payment as well as proof of studies if required.

If the registration full payment has not been received by the early registration deadline indicated, the registration will be cancelled OR the next category or registration fee will automatically be charged.

### Cancellation Policy – Conference Registration

#### General cancellation policy

Notification of cancellation must be made in writing and sent to the Registration team by email no later than 5<sup>th</sup> April 2025 at 23:59 CEST. An administrative fee equivalent of EUR 50.00 will be deducted from the amount to be reimbursed. No refunds will be made for cancellations received as of 6<sup>th</sup> April 2025 or for unattended sessions or early termination of attendance.

## REGISTRATION

### Cancellation policy – Snow Crystal Gala

Notification of cancellation must be made in writing and sent to the Registration team by email. The Snow Crystal Gala can be cancelled free of charge up to and including 5<sup>th</sup> April 2025 at 23:59 CEST. No refunds will be made after this date.

### Group registrations

For inquiries about group registrations, please send an e-mail to [inac@cmi.at](mailto:inac@cmi.at). Please state the number of registrations, the desired registration type and the billing address.

### Data Protection

For your registration for the INAC 2025, the collection, storage and processing of your personal data is unavoidable. This is done exclusively for the purpose of organizing and running the event. Your data will only be passed on to third parties who are directly involved in the congress process and if the organizational process requires this (organizers).

You will receive further details on data protection when you register for the congress.

# SOCIAL EVENTS

## Social Events

### Welcome Reception

*Monday, 5<sup>th</sup> May 2025 | 6.00 pm*

*Venue: Congress Innsbruck, Kristallfoyer*

The Welcome Reception is free of charge for all congress participants! Drinks and snacks will be provided.

### Snow Crystal Gala

*Tuesday, 6<sup>th</sup> May 2025 | 7.30 pm (cocktail reception at 6.30 pm)*

*Venue: Congress Innsbruck, Dogana*

The Snow Crystal Gala is an exclusive event with culinary delights, live bands and artists. One of the many highlights of this evening will be the presentation of the “ÖSV Schneekristall des Wintersports” award. This award is given in recognition of outstanding achievements in popularizing winter sports.

You can book your ticket in the registration process – drinks and food is included.

program

## PROGRAM – Monday, 5th May 2025

### PROGRAM – Monday, 5<sup>th</sup> May 2025

#### Congress Innsbruck

- 01.45 pm – 02.00 pm** Congress Opening
- 02.00 pm – 03.15 pm** **Session 1: Natural Hazard Management in an Adapting Alpine Environment**  
*Chair: M. Keiler, we4DRR/University of Innsbruck/Austrian Academy of Sciences*
- 02.00 pm – 02.15 pm** Managing Alpine Hazards in a Changing Climate - Challenges and Solutions  
F. Rudolf-Miklau, Austrian Service for Torrent and Avalanche Control (WLV)
- 02.15 pm – 02.30 pm** How Does Climate Change Affect the Snow Conditions and Snowmaking Capabilities of Ski Areas in Austria?  
S. Drechsel, GeoSphere Austria
- 02.30 pm – 02.45 pm** Natural Hazard Management and Change Processes in Ski Resorts  
R. Klier, Wintersport Tirol AG
- 02.45 pm – 03.00 pm** Avalanche Mitigation in a Changing Climate and Its Public Perception in Austria  
I. Reiweger, BOKU University
- 03.00 pm – 03.15 pm** Monitoring of Glacier Risks at a Regional Scale  
F. Troilo, Fondazione Montagna sicura

## PROGRAM – Monday, 5th May 2025

### PROGRAM – Monday, 5<sup>th</sup> May 2025

- 03.15 pm – 04.00 pm** Coffee Break
- 04.00 pm – 5.15 pm** **Session 2: Gravitational and Hydrological Hazard Processes in a Changing Climate**  
*Chair: R. Hofmann, University of Innsbruck*
- 04.00 pm – 04.15 pm** Runoff Processes in Alpine Catchments - Characteristics, Triggers and their Changes  
G. Meißl, University of Innsbruck
- 04.15 pm – 04.30 pm** New Normative and Digital Instruments in Avalanche Protection  
F. Oesterle, Austrian Research Centre for Forests (BFW)/Austrian Service for Torrent and Avalanche Control (WLV); M. Granig, Austrian Service for Torrent and Avalanche Control (WLV)
- 04.30 pm – 04.45 pm** Rock Fall and Rock Avalanches in the High Alpine Environment  
C. Zangerl, BOKU University
- 04.45 pm – 05.00 pm** Lessons learnt from the Debris Floods that Occured During Storm Alex, 02/10/2020 (French Maritime Alps)  
C. Misset, French National Forestry Office (ONF)



## PROGRAM – Monday, 5th May 2025

### PROGRAM – Monday, 5<sup>th</sup> May 2025

05.00 pm – 05.15 pm Marmolada Glacier, July 3, 2022: from the Collapse to the Rescue, from Monitoring for Safety Purposes to the Understanding of the Causes of the Event  
M. Gaddo, Office of Forecasting and Planning, Province of Trento

05.15 pm – 05.40 pm  *Symposium: Monitoring Site Ranalt – Flexible Barrier Designed for Catching Avalanches Exposed to an Unexpected Debris Flow Event*

06.00 pm **Welcome Reception**

## PROGRAM – Tuesday, 6th May 2025

### PROGRAM – Tuesday, 6<sup>th</sup> May 2025

#### Congress Innsbruck

09.00 am – 10.30 am **Session 3: Sustainable Protection Measures and Safety Concepts**  
*Chair: W. Gallmetzer, Civil Protection Agency, Province of Bolzano*

09.00 am – 09.15 am Climate Risk Assessment Approaches for the Infrastructure Sector: Insights from National and International Projects  
J. Schmieder, alpS GmbH; K. Schneeberger, alpS GmbH

09.15 am – 09.30 am Global Change Impacts on Avalanche Protective Forests: What Do We Know and Where Do We Grow from Here?  
M. Teich, Austrian Research Centre for Forests (BFW)

09.30 am – 09.45 am Central Office for Engineering Structures and Georisks: Management of Geohazards on Roads of the Bavarian Road Administration and the Monitoring of Protective Structures Against Alpine Natural Hazards  
A. Koch, Zentralstelle Ingenieurbauwerke und Georisiken (ZIG) der Bayerischen Staatsbauverwaltung

## PROGRAM – Tuesday, 6th May 2025

### PROGRAM – Tuesday, 6<sup>th</sup> May 2025

09.45 am – 10.00 am	Non-Structural Mitigation Measures: the Experience of the Debris Flow Warning in the Boite Valley, Dolomites (Veneto Region, Italy) M. Cesca, Regional Agency for Environmental Prevention and Protection, Veneto Region
10.00 am – 10.15 am	Safety Concepts for Remote Avalanche Control Systems - Example from Switzerland L. Stoffel, WSL Institute for Snow and Avalanche Research (SLF)
10.15 am – 10.30 am	Road Protection in Tyrol Using Examples from the Landeck District R. Zach, Land Tirol
<b>10.30 am – 11.15 am</b>	<b>Coffee Break</b>
<b>11.15 am – 12.45 pm</b>	<b>Session 4: Compound Events and Cascading Process Chains</b> <i>Chair: S. Wernhart, Disaster Competence Network Austria (DCNA)</i>
11.15 am – 11.30 am	Compound and Cascading Processes – New Challenges Ahead? N. Salzmann, WSL Institute for Snow and Avalanche Research (SLF)
11.30 am – 11.45 am	Risk Management in the Field of Weather and Avalanche Warning Services for Railway Infrastructure Providers C. Rachoy, ÖBB-Infrastruktur AG

## PROGRAM – Tuesday, 6th May 2025

### PROGRAM – Tuesday, 6<sup>th</sup> May 2025

11.45 am – 12.00 pm	Hazard Mapping in Norway: A Multi Process Site with a Long History K. Bergbjørn, Norwegian Water Resources and Energy Directorate (NVE); M. Hannus, SWECO
12.00 pm – 12.15 pm	Torrent Processes and Climate Changes - Protective Engineering Adaptation Strategies from Practical Engineering Experience M. Moser, Austrian Service for Torrent and Avalanche Control (WLV); L. Puschmann, Austrian Service for Torrent and Avalanche Control (WLV)
12.15 pm – 12.30 pm	Historical Experiences on Avalanche Mitigation in Widespread Settlements in Norway and Demands on Future Development P. Gauer, Norwegian Geotechnical Institute (NGI)
12.30 pm – 12.45 pm	Guideline for Reducing the Impact of Forest Roads on Surface Runoff C. Karnitschar, Amt der Kärntner Landesregierung, Wasserwirtschaft
<b>12.45 pm – 03.00 pm</b>	<b>Lunch Break</b>

## PROGRAM – Monday, 5th May 2025

### PROGRAM – Tuesday, 6<sup>th</sup> May 2025

#### Messe Innsbruck

03.00 pm – 05.30 pm **Session 5: Innovative Solutions for Natural Hazards - Industry Sessions**  
*Chair: S. Hupfau, Congress Messe Innsbruck*  
Guided tour of INTERALPIN trade fair with stops at selected exhibitors

#### Congress Innsbruck

07.30 pm **Snow Crystal Gala**  
An evening event with culinary delights, live bands and artists

## PROGRAM – Tuesday, 6th May 2025

### PROGRAM – Wednesday, 7<sup>th</sup> May 2025

#### Messe Innsbruck

11.15 am – 12.15 pm **INTERALPIN Inspiration Days**  
**Focus on Natural Hazards**  
*Discussion: J. Fischer, Austrian Research Centre for Forests (BFW); G. Walter, Austrian Service for Torrent and Avalanche Control (WLV); R. Klier, Wintersport Tirol AG*

11.15 am – 11.45 am **Natural Hazard Management in an Adapting Alpine Environment and Compound Events and Cascading Process Chains – A Cross Section**  
M. Keiler, we4DRR/University of Innsbruck/Austrian Academy of Sciences

11.45 am – 12.15 pm **Gravitational and Hydrological Hazard Processes in a Changing Climate and Sustainable Protection Measures and Safety Concepts – A Cross Section**  
F. De Polo, Civil Protection Agency, Province of Bolzano

12.15 pm – 18.00 pm **Open INTERALPIN VISIT**

## SPEAKERS & CHAIRS

Karin **Bergbjørn**, Norwegian Water Resources and Energy Directorate (NVE)

Matteo **Cesca**, Regional Agency for Environmental Prevention and Protection, Veneto Region

Fabio **De Polo**, Civil Protection Agency, Province of Bolzano

Susanne **Drechsel**, GeoSphere Austria

Jan-Thomas **Fischer**, Austrian Research Centre for Forests (BFW)

Mauro **Gaddo**, Office of Forecasting and Planning, Province of Trento

Willigis **Gallmetzer**, Civil Protection Agency, Province of Bolzano

Peter **Gauer**, Norwegian Geotechnical Institute (NGI)

Mathias **Granig**, Austrian Service for Torrent and Avalanche Control (WLV)

Maria **Hannus**, SWECO

Robert **Hofmann**, University of Innsbruck

Christina **Karnitschar**, Amt der Kärntner Landesregierung, Wasserwirtschaft

Margreth **Keiler**, we4DRR/University of Innsbruck/Austrian Academy of Sciences

Reinhard **Klier**, Wintersport Tirol AG

Andreas **Koch**, Zentralstelle Ingenieurbauwerke und Georisiken (ZIG) der Bayerischen Staatsbauverwaltung

Gertraud **Meißl**, University of Innsbruck

Clement **Misset**, French National Forestry Office (ONF)

Markus **Moser**, Austrian Service for Torrent and Avalanche Control (WLV)

## SPEAKERS & CHAIRS

Felix **Oesterle**, Austrian Research Centre for Forests (BFW)/Austrian Service for Torrent and Avalanche Control (WLV)

Lisa **Puschmann**, Austrian Service for Torrent and Avalanche Control (WLV)

Christian **Rachoy**, ÖBB-Infrastruktur AG

Ingrid **Reiweger**, BOKU University

Florian **Rudolf-Miklau**, Austrian Service for Torrent and Avalanche Control (WLV)

Nadine **Salzmann**, WSL Institute for Snow and Avalanche Research (SLF)

Jan **Schmieder**, alpS GmbH

Klaus **Schneeberger**, alpS GmbH

Lukas **Stoffel**, WSL Institute for Snow and Avalanche Research (SLF)

Michaela **Teich**, Austrian Research Centre for Forests (BFW)

Fabrizio **Troilo**, Fondazione Montagna sicura


Gebhard **Walter**, Austrian Service for Torrent and Avalanche Control (WLV)

Susanna **Wernhart**, Disaster Competence Network Austria (DCNA)

Robert **Zach**, Land Tirol

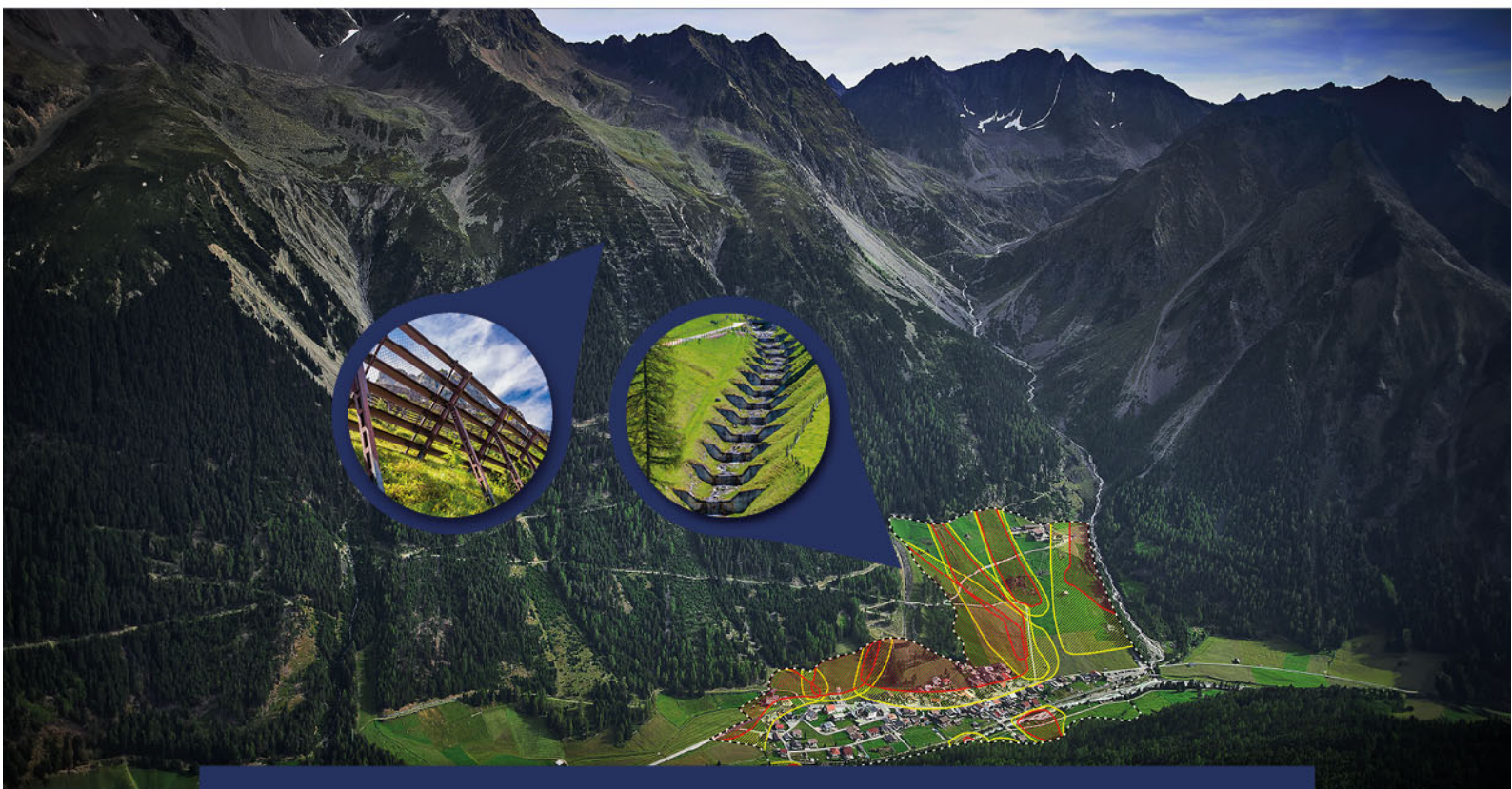
Christian **Zangerl**, BOKU University

Organizers:

 Wildbach- und  
Lawinverbauung  
Forsttechnischer Dienst

**BFW** AUSTRIAN  
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