

ROOMS
RADON OUTCOMES ON MITIGATION SOLUTIONS
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INVITATION

ROOMS

RADON OUTCOMES ON MITIGATION SOLUTIONS

2022

27–28 September, Bergen, Norway

In addition there will be an opportunity to participate in an excursion to Kinsarvik, a particularly high-level radon area 28–29 September. Please see separate information about this trip.

<p>Who?</p>	<p>The European Radon Association (ERA) and The Norwegian Radiation and Nuclear Safety Authority (DSA) welcome national and international members of the scientific community, radon testers, diagnosticians, mitigators, educators, public stakeholders, business people and authorities to participate in the annual ROOMS Conference in Norway. This conference is dedicated to radon preventive measures and mitigation in new and existing buildings.</p>
<p>Where?</p>	<p>Thon Hotel Rosenkrantz Bergen, Norway. There is also an opportunity to sign up for an excursion to Kinsarvik.</p>
<p>Important dates</p>	<p>Abstracts: 31 July. See separate information for call for abstracts Registration: 31 July Preliminary reserved hotel rooms: 27 August</p>
<p>How to get there?</p>	<p>Book your accommodation and transport yourself and in advance. The meeting is located in the center of Bergen and is therefore surrounded by hotels. It is also well connected to public transport.</p> <p>Getting to Bergen:</p> <ul style="list-style-type: none"> → Get travel information at Bergen's official website. → Plan your trip to Bergen with Entur. → Visit Norway Official travel guide to Norway

<h2>Preliminary program</h2>	<p>Tuesday 27 September:</p> <p>Morning session: ERA Workshop: «Looking ahead: Radon in sustainable, low-energy built environment»</p> <p>Afternoon session: ROOMS ERA General Assembly Conference dinner</p> <p>Wednesday 28 September:</p> <p>Morning and afternoon sessions: ROOMS Afternoon: Departure by bus to Kinsarvik for those who want to participate in an informative radon-excursion by one of Norway's beautiful fjords. Accommodation at Hotel Ullensvang.</p> <p>Thursday 29 September:</p> <p>Excursion in Kinsarvik – a particularly high-level radon area by the Hardanger fjord.</p> <p>See separate and detailed information about the Kinsarvik-excursion (Max. 50 participants).</p>
<h2>Registration, conference fee</h2>	<p>Option 1:</p> <p>The charge for the ROOMS Conference is 80 Euro for ERA members/120 Euro for non-members. Two lunches and conference dinner are included in this price.</p> <p>Option 2:</p> <p>The charge for ROOMS including the excursion to Kinsarvik is 210 Euro for ERA members/320 Euro for non-members. All transportation during the excursion, accommodation at Hotel Ullensvang and meals are included in this price.</p> <p>Registration and payment at ERA website: https://radoneurope.org/event/rooms-2022/</p>
<h2>Hotel reservation in Bergen</h2>	<p>We have made a preliminary reservation at the Thon Hotel Rosenkrantz Bergen from the 26–28 September.</p> <p>Prices: Single room 1195 NOK, double room 1495 NOK, including breakfast and WI-FI.</p> <p>If you like to book a room here, please call or e-mail the hotel directly at the latest Friday 26 August. Please remember to provide the reference code.</p> <p>Reference code: INQ 29837942</p> <p>Phone number: +47 55 30 14 00</p> <p>E-mail: rosenkrantz.booking@olavthon.no</p> <p>If you intend participating in the Kinsarvik excursion, please remember to book accommodation in Bergen from 29–30 September.</p>
<h2>Exhibition</h2>	<p>There will be exhibition possibilities available for ERA member companies at the conference hotel. If this is of interest, please contact the organizing committee.</p>
<h2>Contact information</h2>	<p>DSA organizing committee: radon@dsa.no ERA: secretary@radoneurope.org</p>

Kinsarvik excursion 2022

The Norwegian Radiation and Nuclear Safety Authority (DSA) and The Geological Survey of Norway (NGU) invite you to enjoy an informative trip to Kinsarvik, a village located by the beautiful Hardanger fjord.

The Kinsarvik excursion will begin after the end of the ROOMS conference on Wednesday 28 September. The journey to Kinsarvik will take approximately 2 and a half hours by bus from Bergen. We will stay at [Hotel Ullensvang](#).

On Thursday 29 September we will spend some time outdoors with scientist and Associate Professor Jan Steinar Rønning from NGU and The Norwegian University of Science and Technology (NTNU). He will tell us about the bedrock geology in Kinsarvik which is the reason behind the very high indoor and outdoor radon concentrations. Information will also be given on the discovery of the high radon concentrations in the area, the kind of measures that have been implemented and how the municipality and the residents have tackled the radon problem. Please find the preliminary program below.

Radon and Geology in Kinsarvik

The radon problem in Kinsarvik in the Ullensvang Municipality in Western Norway, is one of the largest in the world. Annual average indoor radon concentration, as high as 56,000 Bq/m³ has been measured there. The problem affects more than 100 dwellings, where the average yearly indoor radon level of 4,340 Bq/m³ has been reported. Indoor radon concentrations vary during the year.

The external landforms and internal structures in the soil deposit are characteristic of a rock avalanche deposit. A preliminary interpretation of LIDAR data indicates a rockslide deposit of ca. 1 mill. m³.

Airborne and ground gamma-ray spectroscopy show elevated uranium content in the granitic bedrock north and east of Kinsarvik. These uranium bearing rocks are also found in an open pit in the Kinsarvik deposit.

Terrestrial cosmogenic nuclide dating at four surface boulders show an average age of 10900 ± 600 years. This indicates a rockfall immediately after the last deglaciation of Western Norway.

Based on our results, we can conclude that the radon problems in Kinsarvik are caused by a porous coarse grained rockfall deposit that can emanate radon and let the flow with alternating seasonal direction. This rise a new question:

Could there be similar deposits in other areas in Norway, or world-wide, with similar radon problems?

Jan Steinar Rønning
Geological Survey of Norway

PRELIMINARY PROGRAM

Wednesday 28 September:

1630-1900: Bus trip from Thon Hotel Rosenkrantz, Bergen, to Hotel Ullensvang by the Hardanger fjord.

1930 Three-course dinner at Hotel Ullensvang

Thursday 29 September:

Breakfast at the hotel

0830-0845: Bus to Kinsarvik

0900-1600:

- Introduction
- The Ullensvang municipality perspective
- Mitigation work in Kinsarvik
- Geological understanding
- Excursion in the field

Meals are included.

Hopefully we will have beautiful sunny autumn weather, but this is Norway, and you should be prepared for all kind of weather: sun, wind, rain, warm or cold.

Comfortable shoes for hiking in the field are needed.

1600-1830: Bus trip to Bergen



The Kinsarvik excursion is for the ROOMS 2022 participants only and the maximum number of participants is 50.

Registration and payment for the excursion can be made when registering for ROOMS 2022 conference.

For any questions, please contact the Organizing Committee at radon@dsa.no

ROOMS 2022

Call for abstracts

The European Radon Association (ERA) and The Norwegian Radiation and Nuclear Safety Authority (DSA) invite national and international members of the scientific community, radon testers, diagnosticians, mitigators, educators, public stakeholders, business people and authorities to the annual **ROOMS** Conference, dedicated to radon preventive measures and mitigation in new and existing buildings, to submit an abstract.

Presentations:

- Should focus on mitigation solutions. Participants are encouraged to present case studies of single buildings.
- Maximum duration 20 minutes (including 5 minutes discussion).

Abstracts:

- The abstract should include:
 - The title of the presentation
 - Full name
 - Country
 - Institution
 - E-mail
- The text should not exceed **150 words**.
- Submission deadline is **31 July**.
- Please send your abstract to radon@dsa.no.