

## Firefighter Work and Health: Effects and prevention of chemical and physical exposure

Radisson Blu Royal Garden Hotel, Trondheim, Norway

01.11.2022 – 03.11.2022

Tuesday, 01.11.2022

11.00–11.30 Course registration

11.30–12.15 *Lunch*

12.15–12.30 NIVA welcome and general information

**Morten Jakobsen, NIVA**

12.30–12.45 Introductions  
Scope and purpose of the course  
Learning objectives

**Raymond Olsen,  
STAMI; Mariann  
Sandsund, SINTEF**

### Theme: Firefighters and exposure

12.45–13.30 General lecture – Firefighter's exposure

**Johnni Hansen, Cancer  
Society, Denmark**

13.30–14.00 Fire dynamics, fire safety and firefighting

**Tian Li, RISE Fire  
Research, Norway**

14.00–14.15 *Coffee break with snacks*

14.15–14.45 Chemical exposure assessment – Air and dermal sampling

**Raymond Olsen,  
STAMI, Norway**

14.45–15.15 Chemical exposure assessment – Biological monitoring of exposure

**Raymond Olsen,  
STAMI, Norway**

15.15–15.30 *Coffee break*

15.30–16.00 Heat exposure and firefighter health

**Mariann Sandsund,  
SINTEF, Norway**

16.00–16.15 *Coffee break*

16.15–17.00 Group work / discussion

18.00– *Dinner at the hotel*

Wednesday, 02.11.2022

**Theme: Firefighters and cancer risk**

9.00–9.30	Firefighters Cancer Risk in the Nordic Occupational Cancer Study (NOCCA)	<b>Johnni Hansen, Cancer Society, Denmark</b>
9.30–10.15	Cancer risk among Swedish firefighters	<b>Carolina Bigert, Karolinska Institute, Sweden</b>
10.15–10.30	<i>Coffee break with snacks</i>	
10.30–11.15	Cancer risk among Norwegian firefighters	<b>Niki Marjerrison, Cancer Registry of Norway</b>
11.15–11.45	IARC's recent evaluation and meta-analysis of cancer risk among firefighters	<b>Johnni Hansen, Cancer Society, Denmark</b>
11.45–12.45	<i>Lunch</i>	
13.00–16.30	Visit to Trøndelag brann- og redningstjeneste (Fire and Rescue Service, TBRT) (13:30-14:30) and RISE Fire Research (15:00-16:00)	
17.30–	<i>Social program: 17.30 Meet in hotel lobby 17.45 Walk together to Restaurant Troll (Fosenkaia 4A, 7010 Trondheim, Norway) 18.00 Dinner at Restaurant Troll</i>	

Thursday, 03.11.2022

**Theme: Prevention and measures**

9.00–9.30	Fire profession and preventive measures to reduce chemical exposure	<b>Tommy Kristoffersen, Bergen Fire Department, Norway</b>
09.30–10.15	Exposure based risk assessment among firefighters	<b>Juha Laitinen, Emergency Services Academy, Finland</b>
10.15–10.30	<i>Coffee break with snacks</i>	
10.30–11.30	Group work / discussion	
11.30–12.00	Exchange of experiences across the Nordic countries	<b>Anne Steen Hansen, Rise Fire Research/ NTNU/FRIC, Norway</b>
12.00–13.00	<i>Lunch</i>	
13.00–13.30	Closing of the course	<b>M. Jakobsen, R. Olsen, M. Sandsund</b>
13.30–14.00	<i>Coffee and farewell</i>	