

## 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**

16.00–16.30 *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)	Johnni Hansen, Cancer Society, Denmark
9.30–10.15	Cancer risk among Swedish firefighters	Carolina Bigert, Karolinska Institute, Sweden
10.15–10.30	<i>Coffee break</i>	
10.30–11.15	Cancer risk among Norwegian firefighters	Niki Marjerrison, Cancer Registry of Norway
11.15–11.45	IARC's recent evaluation and meta-analysis of cancer risk among firefighters	Johnni Hansen, Cancer Society, Denmark
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:</i> 17.30 Meet in hotel lobby 17.45 Walk together to Restaurant Troll (Fosenkaia 4A, 7010 Trondheim, Norway) 18.00 Dinner at Restaurant Troll	

Thursday, 03.11.2022

### Theme: Prevention and measures

9.00–9.30	Fire profession and preventive measures to reduce chemical exposure	Tommy Kristoffersen, Bergen Fire Department, Norway
09.30–10.15	Exposure based risk assessment among firefighters	Juha Laitinen, Emergency Services Academy, Finland
10.15–10.30	<i>Coffee break</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>	