55th Annual Meeting on Hot Laboratories and Remote Handling - HOTLAB 2018
Helsinki, Finland
Wade Karlsen
Practicalities
Meeting dinner- Meripaviljonki

Location: Across the street on the waterfront
Starting: 8:00 p.m. tonight!
Bring your ticket!
VTT lab visit- Thursday

Security protocol requires passport/ID scan or photo
• If you have not done so yet, please submit to HOTLAB2018@vtt.fi,
• OR, give passport/ID to the front desk upon arrival on site.
• EVERYBODY MUST ALSO BRING ID FOR SHOWING UPON ARRIVAL.

Morning tour:
• 2 buses depart at 8.00 (8.15) from Hotel Scandic Paasi
• 2 return buses depart at about 12.00 (12.15) from VTT
• Arrival to Hotel Scandic Paasi by 13.00.

Afternoon tour:
• 2 buses depart at 13.00 (13.15) from Hotel Scandic Paasi
• 2 return buses depart at about 17.00 (17.15) from VTT
• Arrival to Hotel Scandic Paasi by 18.00.

Name lists will be in use, so please remember which tour you signed up for!
If taking luggage or personal belongings, DO NOT LEAVE ON BUS!
• A bag room is reserved on site at the VTT Centre for Nuclear Safety.
Poster session - Tuesday 16-18

- Ensure you have submitted your ONE “pitch slide”!
- Pitch slides are collated into one single presentation.
- Each poster has one author giving a 2-minute pitch.
- Pitching authors line up in order of poster number.
- Poster abstracts are listed in numerical order in abstract book.
- Audience: save questions for poster viewing session!

The timer is merciless!
(but all in good spirit!)
Oral sessions-

Presentation are set up on master computer with links.
• If we don’t have your presentation yet, please give it ASAP!
• If you have embedded videos, please try them in advance!

Session chairs:
• Presentation will be started for you.
• Introduce the speaker.
• Keep the time (remember 5 mins for questions).
• Thank you for your service!

Abstract book follows program, but author index is in back.
HOTLAB 2018:
“From new build to final repository-
covering the whole life-cycle"

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<th>Designing and building of new facilities</th>
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<td>Aging management of hot labs</td>
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<td>Decommissioning and waste handling</td>
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Nuclear in Finland-
Experiencing the whole life-cycle
Nuclear in Finland-
Experiencing the whole life-cycle

**Fennovoima:**
Hanhikivi 1 site
License application for AES2006 1200 MW

**TVO:** 2 x BWR 880 MW (net)
Olkiluoto 1 (1978) 7 TWh
Olkiluoto 2 (1981) 7 TWh
Olkiluoto 3 – EPR, 1650 MW

**Posiva:** spent fuel repository,
Under construction

**VTT:**
Test reactor FiR1, Shut down in 2015

**Fortum:** 2 x PWR/VVER 507 MW (net)
Loviisa 1 (1977) 4 TWh
Loviisa 2 (1980) 4 TWh

- Fuel: no front-end facilities, potential uranium recovery from a nickel mine (Terrafame Oy, Sotkamo)
- No reprocessing of spent fuel – ban to import/export nuclear waste (since 1994).
### Nuclear in Finland - Experiencing the whole life-cycle

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- Construction license
- Operating license → Start of operation
- Future licensing needs and licensing
- OL1/2 operating license
- OL3 operating license
- License, Fuel storage, Repository, Decommissioning
Nuclear in Finland-
Experiencing the whole life-cycle
Nuclear in Finland - Experiencing the whole life-cycle

Teollisuuden Voima Oyj, TVO
OLKILUOTO site
Almost 40 years electricity production,
17% of the electricity needs in Finland
Nuclear in Finland-
Experiencing the whole life-cycle

Lo1/2: 2 x VVER 507 MW
Nuclear in Finland—Experiencing the whole life-cycle
Nuclear in Finland—Experiencing the whole life-cycle

VTT decommissioning of old hot laboratory
Nuclear in Finland-
Experiencing the whole life-cycle