

**APAL Final seminar:  
Advanced deterministic and  
probabilistic integrity  
analyses of RPVs subjected to  
PTS Loading - Lessons learned  
from APAL**



**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome & Registration

*Tuesday 17 September 2024 09:00 (15 minutes)*

**Presenter:** ROY, Jerome

**Session Classification:** Opening and registration

Contribution ID: 2

Type: **not specified**

## Overview on the state-of-the-art in PTS

*Tuesday 17 September 2024 09:45 (20 minutes)*

**Presenter:** CUETO-FELGUEROSO, Carlos

**Session Classification:** State-of-the-art for PTS

Contribution ID: 3

Type: **not specified**

## Warm pre-stress (WPS) in PTS

*Tuesday 17 September 2024 10:05 (20 minutes)*

**Presenter:** ZARAZOVSKII, Maksym

**Session Classification:** State-of-the-art for PTS

Contribution ID: 4

Type: **not specified**

## **Residual stresses relevant to PTS**

*Tuesday 17 September 2024 10:25 (20 minutes)*

**Presenter:** SZABOLCS, Szavai

**Session Classification:** State-of-the-art for PTS

Contribution ID: 5

Type: **not specified**

# Introduction to Thermo-Hydraulics

*Tuesday 17 September 2024 11:00 (40 minutes)*

**Presenter:** KRAL, Pavel

**Session Classification:** Advanced thermal-hydraulics analysis procedures

Contribution ID: 6

Type: **not specified**

## Opening and APAL project overview

*Tuesday 17 September 2024 09:30 (15 minutes)*

**Presenter:** PIŠTORA, Vladislav (UJV Řež, a. s.)

**Session Classification:** Opening and registration

Contribution ID: 7

Type: **not specified**

## Uncertainties and BEPU analysis

*Tuesday 17 September 2024 11:40 (45 minutes)*

**Presenter:** CLIFFORD, Ivor

**Session Classification:** Advanced thermal-hydraulics analysis procedures



Contribution ID: 8

Type: **not specified**

## **Structural and fracture mechanics benchmark**

*Tuesday 17 September 2024 13:40 (45 minutes)*

**Presenter:** BLASSET, Sebastien

**Session Classification:** Advanced deterministic PTS analysis procedures

Contribution ID: 9

Type: **not specified**

## **Assessment of LTO improvements & Thermo-hydraulic uncertainties**

*Tuesday 17 September 2024 14:25 (30 minutes)*

**Presenter:** POSTA, Miroslav (UJV)

**Session Classification:** Advanced deterministic PTS analysis procedures

Contribution ID: 10

Type: **not specified**

## **Basic probabilistic fracture mechanics benchmark**

*Tuesday 17 September 2024 14:55 (45 minutes)*

**Presenter:** VON UNGE, Petter

**Session Classification:** Advanced probabilistic PTS analysis procedures I

Contribution ID: 11

Type: **not specified**

## **Probabilistic fracture mechanics benchmark related to LTO improvements**

*Tuesday 17 September 2024 15:55 (25 minutes)*

**Presenter:** ANGERMEIER, Katharina

**Session Classification:** Advanced probabilistic PTS analysis procedures II

Contribution ID: 12

Type: **not specified**

## **Probabilistic fracture mechanics benchmark related to TH uncertainties**

*Tuesday 17 September 2024 16:20 (25 minutes)*

**Presenter:** ANGERMEIER, Katharina

**Session Classification:** Advanced probabilistic PTS analysis procedures II

Contribution ID: 13

Type: **not specified**

## **Probabilistic margin assessment**

*Tuesday 17 September 2024 16:45 (45 minutes)*

**Presenter:** HECKMANN, Klaus

**Session Classification:** Advanced probabilistic PTS analysis procedures II

Contribution ID: 14

Type: **not specified**

## Introduction to APAL Best practice guidance

*Wednesday 18 September 2024 09:30 (10 minutes)*

**Presenter:** DUDRA, Judit

**Session Classification:** Best practice for advanced PTS analysis I

Contribution ID: 15

Type: **not specified**

## Overview of PTS assessment

*Wednesday 18 September 2024 09:40 (15 minutes)*

**Presenter:** CUETO-FELGUEROSO, Carlos

**Session Classification:** Best practice for advanced PTS analysis I



Contribution ID: 16

Type: **not specified**

## **Selection of events leading to PTS**

*Wednesday 18 September 2024 09:55 (20 minutes)*

**Presenter:** PISTORA, Vladislav (UJV)

**Session Classification:** Best practice for advanced PTS analysis I

Contribution ID: 17

Type: **not specified**

## Thermo-hydraulic analyses

*Wednesday 18 September 2024 10:15 (45 minutes)*

**Presenter:** KRAL, Pavel

**Session Classification:** Best practice for advanced PTS analysis I

Contribution ID: **18**

Type: **not specified**

## **Temperature and stress field calculations**

*Wednesday 18 September 2024 11:15 (30 minutes)*

**Presenter:** TIETE, Ralf

**Session Classification:** Best practice for advanced PTS analysis II

Contribution ID: 19

Type: **not specified**

## **Deterministic fracture-mechanics assessment for PTS analysis**

*Wednesday 18 September 2024 11:45 (45 minutes)*

**Presenter:** TIETE, Ralf

**Session Classification:** Best practice for advanced PTS analysis II

Contribution ID: 20

Type: **not specified**

# Probabilistic PTS analyses and uncertainties I

*Wednesday 18 September 2024 13:45 (1 hour)*

**Presenter:** SHIPSHA, Andrey

**Session Classification:** Best practice for advanced PTS analysis III

Contribution ID: 21

Type: **not specified**

## **Probabilistic PTS analyses and uncertainties II**

*Wednesday 18 September 2024 15:00 (55 minutes)*

**Presenter:** SHIPSHA, Andrey

**Session Classification:** Best practice for advanced PTS analysis IV

Contribution ID: 22

Type: **not specified**

## Welcome to IRSN

*Tuesday 17 September 2024 09:15 (15 minutes)*

**Presenter:** GIORDANO, Patrice

**Session Classification:** Opening and registration