

# PRELIMINARY PROGRAM

## Workshop/Training Course

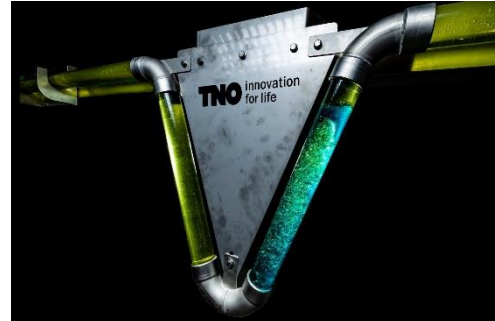
### 'Pulsation and Vibration Control in Process Installations'

TNO Rijswijk, 7-8 April, 2025

Monday April 7

#### Plenary

08.30 – 09.00	Welcome coffee
09.00 – 09.15	Introduction to TNO/PVC course
09.15 – 10.15	Pulsation and Vibration effects in Process Installation
10.15 – 10.30	Coffee break
10.30 – 11.30	Fundamentals of wave propagation in piping
11.30 – 12.15	Lab Tour
12.15 – 13.15	Lunch buffet



#### Parallel sessions

##### Positive displacement machinery

13.15 – 14.30	Pulsations in Reciprocating Compressors
14.30 – 14.45	Break
14.45 – 15.45	Pulsations in Reciprocating Pump systems
15.45 – 16.00	Break
16.00 – 16.30	Pulsations in screw compressors
16.30 – 17.15	Application to Hydrogen compression systems

##### Flow induced pulsations/vibrations

13.15 – 14.15	Water hammer
14.15 – 15.00	Pulsation in turbo compressor systems.
15.00 – 15.15	Tea break
15.15 – 16.00	Flow induced Pulsations
16.00 – 17.15	Multiphase forcing

#### Plenary

19.00 – 22.00	Dinner (City Centre of Delft)
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Tuesday April 8

#### Plenary

08.30 – 09.00	Welcome coffee
09.00 – 10.00	Introduction to pipe vibrations
10.00 – 10.15	Coffee break
10.15 – 11.15	Measuring pulsations and vibrations
11.15 – 12.15	Introduction to fatigue
12.15 – 13.15	Lunch buffet

#### Parallel sessions

##### Positive displacement machinery

13.15 – 14.00	API Workflow, Acoustics
14.00 – 14.45	API Workflow, Mechanics
14.45 – 15.00	Tea break
15.00 – 16.30	API Workflow, Case Study

##### Flow induced pulsations/vibrations

13.15 – 14.45	AVIFF Workflow, guidelines
14.45 – 15.00	Tea break
15.00 – 16.30	AVIFF Workflow, Case Study

