

---

Astroparticle Physics for Europe

## **APPEC Technology Forum 2018 – Welcome**

Francesca Moglia

Veldhoven, 12.11.2018

## Welcome to the ATF 2018!

- Presentation of the companies, so everybody is known by the challenges session
- Presentation of the challenges
- Reminders
- Let's start!

## FMB Oxford

is leader in the supply of beamlines and beamline components to the scientific community

Elliot Jane



## Galli e Morelli

Officina meccanica di precisione

participates in the design and construction of experimental equipment for research in fundamental physics

Alexander Pellicone



## Innoseis

is a spin-off company of Nikhef and is committed to the transfer of fundamental research to industrial applications

Mark Becker



## Janssen Precision Engineering

is leading expert in precision engineering especially in applications with high-stability demands

Huub Janssen

Bart van Bree

Remy Scheren



## SmarAct

develops and produces piezo-based high-performance micro- and nanopositioners, advanced control systems and micro-tools

Marcel Abheiden

Alexander Omelcenko

Carina Zimmermann

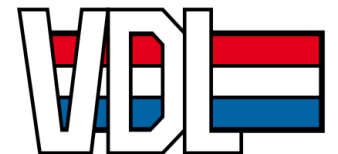


## VDL (!)

Enabling Technology Group

their goal is to outperform customer expectations in delivering mechatronic solutions

Paul Blom



## Nikhef

Dutch National Institute for Subatomic Physics

Demonstration of gravitational waves  
and their detection, of seismic isolation  
technology and sensing

Eric Hennes

Pelle Speet



## Challenges:

- 1) Challenge for the Precision Laser Inclinometer (PLI) @CERN - B. Di Girolamo  
Feedback system timing capabilities
  - a) Sub-challenge: reaction speed, frequency range of operation
  - b) Sub-challenge: signal quality
  
- 2) Challenge for the beam transport @ European XFEL - M. Vannoni, D. La Civita  
Design of stable mechanics that matches the optical quality of the mirrors
  - c) Sub-challenge: define specifications for vendors
  - d) Sub-challenge: measure optics at nm-level
  - e) Sub-challenge: measure performance of the optics in the beam-line
  - f) Sub-challenge, if needed: define a device update to improve performance

## Challenges:

- 3) Challenge for production of tiled large area dielectric discs and precise disc positioning @MADMAX – C. Krieger
  - g) Sub-challenge: production of large area tiled discs
  - h) Sub-challenge: positioning and alignment of discs in MADMAX



## Reminders, please:

- Fill out:
  - The Data Privacy Statement, sign it and return it to Wenke
  - The food allergy/wishes form here in front
- Check the challenges for the open session:
  - Find out what are the most interesting for you
  - Ask challenge holders for clarifications
  - No need to return the form
- Don't forget our dinner tonight
- If tomorrow you need a taxi, please contact Wenke, possibly today
- Tell me or Wenke about anything to change in the brochure