KNOCKY Symposium

Programme

Agenda

	Monday 2019-11-25	Tuesday 2019-11-26	Wednesday 2019-11-27	Thursday 2019-11-28	Friday 2019-11-29
9:15 – 10:00		Open lectures	KNOCKY CFD Workshop	KNOCKY CFD Workshop	KNOCKY CFD Workshop
10:15 – 11:00					
11:00 – 12:00	Welcome and Open lecture				
12:00 – 13:15	BREAK	BREAK	Lunch (workshop participants)	Lunch (workshop participants)	Lunch (workshop participants)
13:15 – 14:00	Open lectures	Open lectures	KNOCKY CFD Workshop	KNOCKY CFD Workshop	Workshop closure
14:15 – 15:00					
15:15 – 16:00					
16:15 – 17:00					
17:00		Lectures closure			
18:00					
19:00					
20:00				Dinner (workshop participants)	

- **Open lectures** – open event
- **KNOCKY CFD Workshop - Advanced Simulations in AVL FIRE™** – due to limited number of places - **registration required - to register:**
  - you need to be familiar with CFD modelling (preferably with AVL FIRE™)
  - Please send an email to: *lukasz.kapusta@pw.edu.pl* and provide following information:
    - Family name (last name):
    - Given name (first name):
    - Affiliation (university or institute):
    - Email address:

Fees: both **Open lectures** and **KNOCKY CFD Workshop** are free of charge

Warsaw University
of Technology

Open lectures

Monday 2019.11.25

morning session (chair: Dr Łukasz J. Kapusta)

11:00 – 11:15 – Welcome and

KNOCKY Project Overview by Prof. Stanislaw Szwaja from Czestochowa

University of Technology

11:15 – 12:00 – *"Scalable Simulation of IC-Engine Combustion Processes"*

by Dr Reinhard Tatschl from AVL LIST GmbH

12:00 – 13:15 – BREAK

afternoon session (chair: Dr Karol Grab-Rogaliński)

13:15 – 16:00 – *"Knock Combustion, its Metrics and Characteristics"*

by Prof. Jeffrey D. Naber from Michigan Technological University

16:15 – 17:00 – *"MOTORTECH – Gas Engine Technology"*

by Mr Robert Virchow from Motortech GmbH

Open lectures

morning session (chair: Prof. Andrzej Teodorczyk)

09:15 – 11:00 – *"Knock Research at University of Birmingham"*

                 by Prof. Mirosław Wyszyński from University of Birmingham

11:15 – 12:00 – *"Smart Power generation"*

                 by Mr Juha-Pekka Sundell from Wärtsilä Finland Oy

12:00 – 13:15 – BREAK

afternoon session (chair: Prof. Mirosław Wyszyński)

13:15 – 14:00 – *"Knock Propensity of Gaseous Fuels – Research at Wärtsilä Fuel Laboratory"*

                 by Mr Per Löfholm from Wärtsilä Finland Oy

14:15 – 15:00 – *"Various Applications to Reduce Knock Combustion"*

                 by Dr Karol Grab-Rogaliński from Czestochowa University of Technology

15:15 – 16:00 – *"Optical Research in the KNOCKY Project"*

                 by Dr Łukasz J. Kapusta

16:15 – 17:00 – *"Knock Limitation Studies in a Rapid Compression Machine"*

                 by Dr Agnieszka Jach and Mr Michał Klamka from Warsaw University of Technology

17:00 **SYMPOSIUM CLOSURE** – Prof. Stanislaw Szwaja and Dr Łukasz J. Kapusta

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KNOCKY CFD Workshop - Advanced Simulations in AVL FIRE™

Wednesday 2019.11.27

09:15 – 12:00 – *"Numerical modelling of spark ignition and flame propagation in internal combustion engines"*

Dr Rafał Pyszczek from Warsaw University of Technology

12:00 – 13:15 – Lunch

13:15 – 17:00 – *"Numerical modelling of spark ignition and flame propagation in internal combustion engines"*

Dr Rafał Pyszczek from Warsaw University of Technology

Thursday 2019.11.28

09:15 – 12:00 – *"Spray modelling – conventional and flash-boiling"*

Mr Rafał Rogóż, Mr Jakub Bachanek from Warsaw University of Technology

12:00 – 13:15 – Lunch

13:15 – 17:00 – *"Spray modelling – conventional and flash-boiling"*

Mr Rafał Rogóż, Mr Jakub Bachanek from Warsaw University of Technology

Friday 2019.11.29

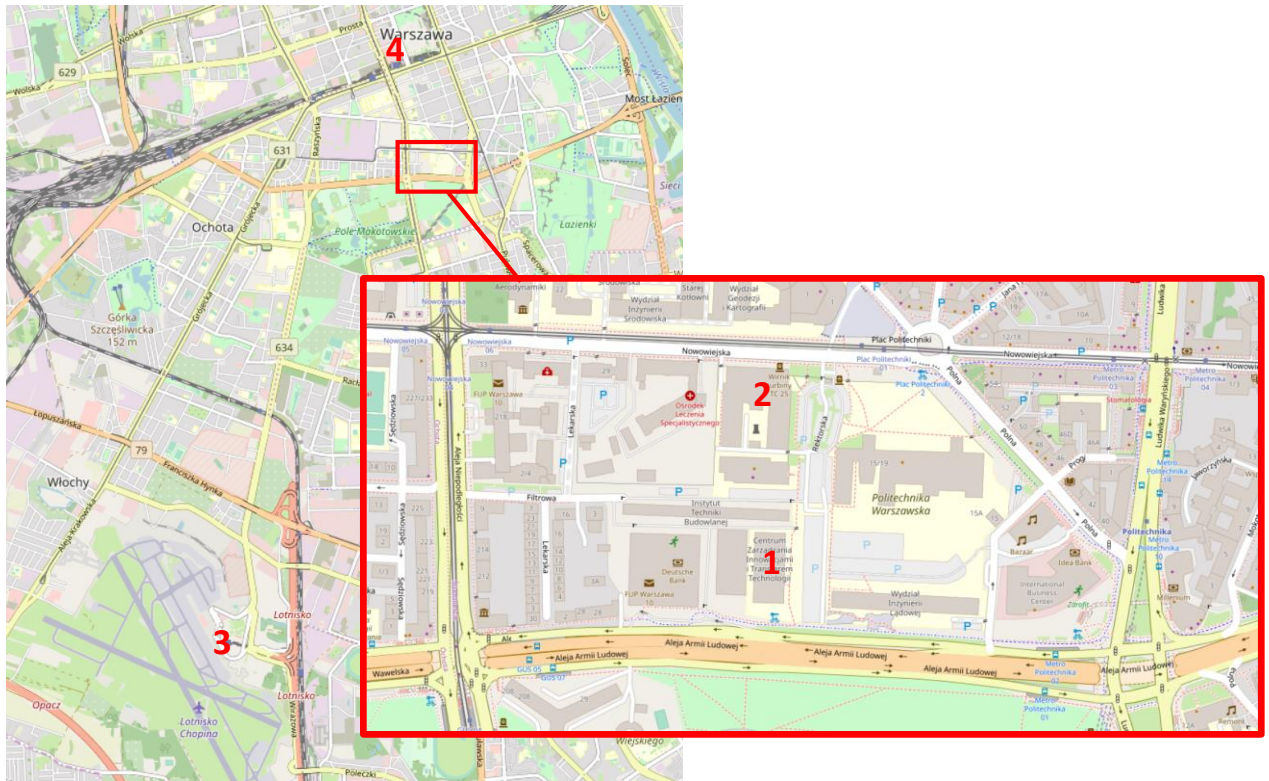09:15 – 12:00 – *"Spray modelling – conventional and flash-boiling"*

Mr Rafał Rogóż, Mr Jakub Bachanek from Warsaw University of Technology

12:00 – 13:15 – Lunch

13:15 – 14:00 – Workshop closure – presentation of diplomas

Warsaw University of Technology

Venue

The KNOCKY Symposium will be held at Warsaw University of Technology in the main campus area in the center of Warsaw

1. **Open lectures –** Centre for Innovation and Technology Transfer Management of Warsaw University of Technology (Centrum Zarządzania Innowacjami i Transferem Technologii Politechniki Warszawskiej), Rektorska 4, 00-614 Warsaw, Poland

2. **KNOCKY CFD Workshop - Advanced Simulations in AVL FIRE™** - Institute of Heat Engineering (Instytut Techniki Cieplnej), Nowowiejska 21/25, 00-665 Warsaw, Poland

3. **Warsaw Chopin Airport (Lotnisko Chopina)**

4. **Warsaw Central Station (Warszawa Centralna)**

For further information please contact:
Dr Łukasz J. Kapusta, Assistant Professor
lukasz.kapusta@pw.edu.pl

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Acknowledgments

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