



Functional nanostructures – modelling, design, characterization

SPINTECH - TWENTE training winter school,

University of Twente, the Netherlands, 10-11 February 2022

*This event is organized in frame of the project "SPINTECH" of the European Union
H2020-WIDESPREAD-05-2017-Twinning programme*



The main goal of the [SPINTECH-TWENTE training workshop-2022](#) is to increase experience of the project participants in implementation of spintronics for design of artificial neural networks (ANN) and to gain knowledge in modelling, design and characterization of the ANN under supervision of the experts from University of Twente.

Program of the SPINTECH-TWENTE Training Workshop

Wednesday, 09th of February

9:00-18:00 arrival of participants in Enschede, The Netherlands.

19:00 Welcome party. U-park hotel, lobby.

Thursday, 10th of February

9:00-10:00 Opening of the event. Project SPINTECH – goals and achievements. Coordinator of the project, Prof.Dr. Sidorenko Anatolie.

10:00-11:00 Lecture of dr. Joachim Voitok. "DANNALAB", The Netherlands. Modern methods of the nanostructures characterization by XRD-diffractometer.

11:00-12:30 Lecture of Dr.Thomas Koch, Analytical Intelligence Research Services, KRONOS INT. Inc. Leverkusen. Advanced X-Ray Based Methods for Powder Characterisation.



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12:30-13:30 Lunch
13:30- 14:30 Direct training in XRD methods - all participants.
15:00-16:00 Visit to the Thin Films Fabrication Center of the University of Twente. Discussions with, Dr. Igor Makhotkin.
16:00-17:00 Direct training Thin Films Fabrication Center - all participants.

18:00 Dinner

Friday, 11th of February

10:00-10:30 Multi-level modeling of the functional nanostructures. Lecture of Prof. Alexander Vakhrushev, Izhevsk Technical University, Russia.
10:30-11:00 Theoretical base of the superconducting spintronics. Prof. Alexander Golubov, University of Twente.
11:00-12:30 – Visit to the SQUID microscopy Center. Meeting with Prof.dr.ir. Alexander Brinkman. Direct training of participants in characterization methods by SQUID microscope.

12:30-13:30 Lunch
14:00 -17:00 Outreach activity 1 - visit of the Theoretical Lyceum of Enschede. Information of the schoolchildren about the scientific breaking news.

Saturday, 12th of February

10:00-12:00 Outreach activity 2 – visit to the museum.
12:00-13:00 Round table discussion about the progress in the project SPINTECH implementation

List of participants:

Prof. Anatolie Sidorenko – coordinator of the project (IEN)
Prof. Vladimir Krasnov – leader of the SU group (SU)
Prof. Alexander Golubov – leader of UTWENTE group
Prof. Igor Soloviev, Moscow State University, Russia
Prof. Igor Lukyanchuk, Amien, France
Prof. Nikolai Klenov, Moscow State University, Russia
Prof. Alexander Brinkman (UTWENTE)
Prof. Hans Hilgenkamp (UTWENTE)
Prof. Alexander Vakhrushev, Izhevsk Technical University, Russia
Dr. Igor Makhotkin (UTWENTE)
Dr. Vladimir Kogan (UTWENTE)
Dr. Elena Condrea – head of the Cryogenic Laboratory, project member (IEN)
Dr. Evgheni Antropov- project member (IEN)
Dr. Andrei Prepelita - project member (IEN)
Dr. Alexander Penin- project member (IEN)
Dr. Efim Zasavitchi- project member (IEN)
Dr. Oleg Bujor- project member (IEN)
Dr. Taras Golod- project member (SU)
Dr. Olena Kapran - project member (SU)
PhD student Anton Iacunin (IEN)
PhD student Tairzan Karabassov- project member (UTWENTE)
PhD student Vladimir Boian, project member (IEN)
PhD student Maria Lupu - project member (IEN)
Researcher Tatiana Prepelita - project member (IEN)
Researcher Cezar-Casian Malcoci - project member (IEN)
Researcher Andrei Sirbu - project member (IEN)



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Organizing Committee:

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Web page: [https://nanotech.md/SPINTECH-Twente training workshop-FEB 2022](https://nanotech.md/SPINTECH-Twente%20training%20workshop-FEB%202022)



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