

# Terfel Conference 5-8 July 2022, Warsaw, Poland



## Invitation

In the name of Program Committee we are delighted to invite you to participate in the *International conference on Free Electrons Laser Applications in Infrared and THz Studies of New States of Matter - TERFEL*, that will take place at Warsaw from July 5 to July 8, 2022, organized by National Centre for Nuclear Research jointly with Centera (IWC PAS), Military University (WAT) and THz experts from Warsaw University.

We will have great pleasure to host distinguished invited speakers (listed on the other side).

The aim of this conference is to bring together experts in the field of THz and IR science to present current and new investigations that utilize the unique and exceptional characteristics of Free Electron Laser-based IR/THz sources. The conference will cover many areas of IR/THz research includes the following topics:

- Free electron laser facilities
- Photon beamline instrumentation & diagnostics
- Other high power THz/IR sources of radiation
- THz and IR spectroscopy of condensed matter
- THz and IR properties of biological materials
- Imaging in THz and IR ranges
- Ultrafast magnetic phenomena
- Correlated and low dimensional systems

We would be grateful if you could declare your participation/short abstract, completing the Registration Form available at our site:

<https://events.ncbj.gov.pl/event/75/>.

Looking forward to your participation at TERFEL and to welcoming you in Warsaw.

Cordially,

*Wojciech Knap (ScC Chair) and Paweł Krawczyk (PolFEL Project Leader)*

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Scientific Committee	Invited Speakers
<b>Wojciech Knap (Chair)</b>	<b>Giel Berden</b> <i>Contribution title: Infrared free electron lasers in (bio)analytical chemistry</i>
<b>Paweł Krawczyk</b>	
<b>Manfred Helm</b>	<b>Aleksei Kimel</b> <i>Contribution title: Ultrafast (THz) magnetism: terra incognita beyond conventional approximations</i>
<b>Gian Pierro Gallerano</b>	
<b>Sergey Ganichev</b>	
<b>Valusis Gintaras</b>	
<b>John Michael Klopff</b>	<b>Martin Mittendorff</b> <i>Contribution title: Graphene plasmonics: THz nonlinearities beyond thermal effects</i>
<b>Jerzy Łusakowski</b>	
<b>Katarzyna Nowakowska-Langier</b>	<b>Fabio Novelli</b> <i>Contribution title: Nonlinear terahertz spectroscopy on liquid water</i>
<b>Jos Oomens</b>	
<b>Milan Orlita</b>	<b>Paola Di Pietro</b> <i>Contribution title: Nonlinear ultrafast studies at TeraFERMI beamline</i>
<b>Norbert Pałka</b>	
<b>Andrea Perucchi</b>	
<b>Jarosław Poznański</b>	<b>Stephan Winnerl</b> <i>Contribution title: Auger scattering in massless Dirac and Kane materials</i>
<b>Agnieszka Siemion</b>	
<b>Joo-Hiuk Son</b>	
<b>Nikola Stojanovic</b>	<b>Michael Gensch</b> <i>Contribution title: Superradiant Terahertz facilities for high field Terahertz Science – the first 2 decades</i>
<b>Frederic Teppe</b>	
<b>Alessandro Tredicucci</b>	
<b>Adriana Wawrzyniak</b>	<b>Tutorial</b> <b>Gian Piero Gallerano and Manfred Helm</b> <i>Contribution title: Free Electron Lasers: Past, Present and Future Challenges</i>
<b>Przemysław Zagrajek</b>	

Conference is planned in live-on-site mode with all sanitary requirements regarding COVID-19 EU regulations respected.

For further information, please contact [terfel@ncbj.edu.pl](mailto:terfel@ncbj.edu.pl)