



CENTERA THz Days

October, 15th – 19th, 2019, Warsaw, Poland

3rd announcement



Institute of High Pressure Physics
Polish Academy of Sciences

CENTERA

CENTERA is an international research center created in September 2018. Administratively **CENTERA** is attached to the Institute of High Pressure Physics of the Polish Academy of Sciences (IHPP PAS).

The main goal of **CENTERA** is to create in Warsaw a Central European Research Center stimulating research efforts in the domain of terahertz science and technology.

During 15th-19th October, 2019 **CENTERA** will organize the CENTERA THz Days, an international event of EU researchers active in the THz domain with the main purpose of building a basis for future strong scientific collaborations in the field.

CENTERA THz Days will consist of two main events:

FRENCH-POLISH SCIENCE & TECHNOLOGY MEETING on 15th–16th OCTOBER 2019

and

ANNUAL WORKSHOP

of INTERNATIONAL RESEARCH PROJECT (IRP) – TERAMIR (17th-19th OCTOBER 2019)

TOPICS

Terahertz (THz) electromagnetic waves and phenomena in the THz range are more and more intensely investigated, yet not fully unveiled in broad areas of sciences & technology ranging from fundamental physics to commercial applications.

CENTERA THz DAYS will cover:

☐ Physics of THz emission & detection

- Electronic/photonic/plasmonic devices
- Nonlinear crystals
- Superconductors, bolometers, etc.

☐ THz devices & electronic/optical components

- Sub-THz/THz transistors, mixers, etc.
- Metamaterials, photonic crystals, and surface-plasmon-polariton waveguides

IMPORTANT DATES

PL-FR Science and Technology Meeting: **15th-16th October 2019**

LIA Steering Committee Meeting **17th October 2019**

ISC Steering Meeting **17th October 2019**

TERAMIR Meeting: **17th -19th October 2019**

CONTACT AND CONFERENCE WEBSITE

Persons interested in participation are kindly asked to contact:

Kasia Kolys: kkolys@unipress.waw.pl

phone: +48 22 182 12 47

Registration: <http://pirbinstytut.pl/index.php/registration-centera-thz-days>

FR-PL SCIENCE & TECHNOLOGY MEETING

The FRENCH-POLISH SCIENCE & TECHNOLOGY MEETING on 15th–16th OCTOBER 2019 is a CNRS and Polish Academy of Sciences joint initiative having as a goal to reinforce existing French-Polish collaborations and to help create new links between teams active in different areas of terahertz science and technology.

List of speakers

1. Abdel El-Fatimy – CEITEC, Brno University
2. Stefano Barbieri – IEMN, Lille
3. Sylvain Bollaert – IEMN, Lille
4. Grzegorz Cywiński – TEAM – PAS, Warsaw
5. Guillaume Ducourneau – IEMN, Lille
6. Emilie Héroult – LAHC, Chambéry
7. Eugeniusz Jaszczyszyn – Warsaw University of Technology
8. Wojciech Knap – CENTERA, IHPP-PAS
9. Cezary Kołaciński – Institute of Electron Technology, Warsaw
10. Alvydas Lisauskas – IHPP PAS
11. Robert Nietubyc/Karolina Szamota-Leandersson – National Centre for Nuclear Research, Świerk
12. Jean-François Lampin – IEMN, Lille
13. Jérôme Lesueur – ESPCI, Paris
14. Alvydas Lisauskas – CENTERA IHPP-PAS
15. Alexandre Locquet – Georgia Tech, Metz
16. Jerzy Łusakowski – University of Warsaw
17. Juliette Mangeney – LPA, Paris
18. Patrick Mounaix – IMS, Bordeaux
19. Gaël Mouret – LPCA, Dunkerque
20. Milan Orlić – LNCMI, Grenoble
21. Norbert Palka – Military University of Technology, Warsaw
22. Olivier Piralı – Soleil, Gif-sur-Yvette
23. Sergey Rumiantsev – IHPP PAS, Warsaw
24. Maciej Sakowicz – IHPP PAS, Warsaw
25. Maciej Sypek – ORTEH, SMS, Warsaw
26. Yanko Todorov – LPA, Paris
27. Frédéric Teppe – L2C, Montpellier
28. Jérémie Torres – IES, Montpellier
29. Yannick De Wilde – ESPCI, Paris
30. Tomasz Wojtowicz – MagTop, Warsaw
31. Przemysław Zagrajek – MUT, Warsaw
32. And the others

Historic place Warsaw Old Town
https://en.wikipedia.org/wiki/Warsaw_Old_Town



image by Rudy and Peter Skitterians from Pixabay

LIA TERAMIR MEETING

The INTERNATIONAL RESEARCH PROJECT (IRP) – TERAMIR WORKSHOP (17th-19th OCTOBER 2019)

IRP is a natural continuation of the annual meetings of GDR and LIA programs of collaboration between France, Poland and Russia initiated by CNRS in 2010. Currently IRP-TERAMIR is directed not only to THz properties of solids but also to the dynamically developing research of different new states of the matter (Dirac matter, different topological states of 2D and 3D systems, Weyl semimetals, etc). As usually, the TERAMIR meeting is devoted not only to the presentation of recent results of all participating laboratories (3 French, 2 Polish and 4 Russian) but invites also experts from the international scientific community. This October, we expect around 50 participants -presenting their recent scientific results.

We plan the following **tutorials**:

1. Mikhail Belkin (Walter Schottky Institute, Germany) - *Room-temperature terahertz quantum cascade laser sources based on intra-cavity difference frequency generation*
2. Tomasz Dietl (IP PAS, Poland) – *Point-contact spectroscopy of topological materials*
3. Sergey Ganichev (THz Center Regensburg, Germany) - *Overview on Spin photogalvanics induced by terahertz radiation*
4. Viktor Krozer (Goethe Universität Frankfurt am Main, Germany) – *Higher frequency electronics and sub-terahertz diabetes detection*
5. Idelfonso Tafur Monroy (Eindhoven University of Technology, The Netherlands) - *Towards Terahertz Systems on chip*
6. Hartmut Roskos (Goethe Universität Frankfurt am Main, Germany) *Light-matter interaction in 1D THz photonic crystal cavity: Ultrastrong coupling and nonlinear optics*

List of **invited speakers**:

1. Grzegorz Cywiński - IHPP PAS, Warsaw
2. Guillaume Ducourneau - IEMN-Lille
3. Georgy Fedorov - Moscow Pedagogical Univ.
4. Vladimir Gavrilenko - IPM Nizhny Novgorod
5. Valentin Kachorovskiy - Ioffe, Saint Petersburg
6. Dmitry Khokhlov - Moscow Lomonosov
7. Sergey Krishtopenko - L2C-Montpellier
8. Alvydas Lisauskas – CENTERA, Warsaw
9. Jerzy Łusakowski - Warsaw University
10. Juliette Mangeney - LPA-Paris
11. Nikolay Mikhailov - Novosibirsk-RAS
12. Patrick Mounaix - IMS-Bordeaux
13. Milan Orlić - LNCMI-Grenoble
14. Frédéric Teppe - L2C-Montpellier
15. Yanko Todorov - LPA-Paris
16. Jérémie Torres - IES-Montpellier
17. Gintaras Valušis - FTMC-Vilnius
18.& others

ORGANIZING COMMITTEE

Symposium Chair:

Prof. Wojciech KNAP

CENTERA, IHPP PAS, Poland & L2C, CNRS & Montpellier Univ., France

Dr. Frederic TEPPE

L2C, CNRS & Montpellier Univ., France

Prof. Thomas SKOTNICKI

CENTERA, IHPP PAS, Poland

Head of Organizing Committee:

Katarzyna Kolys

Steering Committee

CENTERA THz Days will be conducted under supervision of CENTERA International Scientific Committee:

Prof. Tomasz Dietl - *MagTop – IP PAS, Warsaw*

Prof. Guillaume Ducourneau - *IEMN, CRNS, France*

Prof. Sylvain Bollaert - *IEMN, CRNS, France*

Prof. Viktor Krozer - *Goethe Universität Frankfurt am Main, Germany*

Prof. Jean-Francois Lampin - *IEMN, CNRS, France*

Prof. Jerzy Łusakowski - *University of Warsaw, Poland*

Prof. Jacek Marczewski - *ITE, Poland*

Prof. Sylwester Porowski - *IHPP PAS, Poland*

Prof. Hartmut Roskos - *Goethe Universität Frankfurt am Main, Germany*

Prof. Gintaras Valušis - *Center for Physical Sciences and Technology, Lithuania*

ORGANIZERS

☐ Institute of High Pressure Physics PAS, Poland

☐ CNRS Institute of Physics, France

☐ Laboratoire Charles Coloumb, Montpellier CNRS, France

The „Center for Terahertz Research and Applications (CENTERA)” project is carried out within the 'International Research Agendas' programme of the Foundation for Polish Science co-financed by the European Union under the European Regional Development Fund.

VENUE

The place of the conference:

Centre for Advanced Materials and Technologies CEZAMAT

19 Poleczki Street, Warsaw, Poland

<http://www.cezamat.eu/pl/>



Republic of Poland



European Union
European Regional
Development Fund

