



# 5<sup>th</sup> ICYRAM CONFERENCE

## INTERNATIONAL CONFERENCE of YOUNG RESEARCHERS on ADVANCED MATERIALS



**18 - 20 September 2020**

**WARSAW UNIVERSITY OF TECHNOLOGY (WUT), POLAND**

### **I. SHORT HISTORY ABOUT THE ICYRAM CONFERENCES**

ICYRAM, dedicated to the support of young researchers, is the most recent of the 4 International Conferences (ICA) launched by the International Union of Materials Research Societies (IUMRS). ICYRAM was first organized in **Singapore (2012)**, followed by **China (2014)**, **India (2016)** and **Australia (2018)**. In 2020, the ICYRAM Conference will be organized for the first time in Europe in Warsaw, the capital of Poland.

### **II. MISSION**

Young Researchers from all over the world, aged <40, will have a unique opportunity to discuss, meet and create networks within the global materials community.

The key organizers of the various sessions are selected from all around the world. A limited number of Senior VIP's will be invited to discuss the latest developments in Materials Science & Technology.

Young researchers will have the unique opportunity

- ❖ to present their achievements in fields related to materials science and engineering
- ❖ to extend their knowledge through contact and information exchanges with other young colleagues.

### **III. VENUE**

The conference takes place in Warsaw, the capital of Poland in central Europe and gateway to Eastern Europe. Warsaw is the economic, political, and cultural center of Poland. The symbol of the city is the Mermaid, featured on the city seal. Warsaw is a bustling metropolis and features an

unforgettable history. One fourth of the city is covered by parkland. Warsaw is located not far from UNESCO heritage sites as Zelazowa Wola - Chopin's birthplace; Cracow; and Wieliczka - an exciting and unique salt mine. In addition, Poland is the birth place of the famous scientists Czochochalski, Copernicus and Marie Skłodowska-Curie, to name the most prominent persons.

**Conference Language** is English

#### **IV. PRELIMINARY PROGRAM**

A large spectrum of events will be organized in 5 half day topical sessions:

- ❖ oral and poster sessions to present's research work
- ❖ a competition (with prizes/diploma) with 3 minutes presentations followed by discussions during the poster session
- ❖ panel discussions on scientific topics of interest
- ❖ ERC young researcher event
- ❖ information on Marie Skłodowska-Curie actions: Innovative Training Networks (ITN) & Individual Fellowships (IF)

**The program will be divided into five topic sessions:**

- ❖ **Materials for a climate neutral world**  
materials for energy harvesting and energy acquisition, solar cells, lighting, solar fuels, semiconductors for photocatalytic water splitting, related materials characterization, etc.
- ❖ **Materials for smart cities**  
sustainable materials, sensors, (micro-)electronic materials, materials for communication applications, constructions materials, related materials characterization, etc.
- ❖ **Materials for health**  
materials in medicine, X-ray imaging materials, nanomaterials in medicine, biomedical materials, medical sensors, biotechnology, filtration, materials related to food, related materials characterization, etc.
- ❖ **Materials for space**  
light-weight materials, temperature stable materials, special solar cells and thermo-electrics for space, radiation hard materials, related materials characterization, etc.
- ❖ **Materials for mobility**  
synthetic fuel, fuel cells, batteries, power electronics, light weight metals and composites, additive manufacturing, fracture issues in materials, related materials characterization, etc.

Presentations may cover materials aspect in the research chain from fundamentals to devices/systems including recycling. From the submitted abstract, 30 oral presentations (including 3 to 5 upgrades to invited speeches) and poster presentations.

#### **List of plenary speakers (confirmed)**

1. Prof. Tony KENYON (University College London, **UK**)  
"Materials for neuromorphic devices"
2. Prof. Jacques AMOUROUX (Sorbonne Université, Paris, **France**)

“World Management of Carbon Dioxide for Energy Storage and Sustainable Development“

3. N.N.  
“Materials for Space”
4. Representative from the European Commission  
“EU 2019-20 24 mission on Climate-Neutral and Smart Cities”

#### **List of invited speakers (confirmed)**

- ❖ Dr. Saskia SCHIMMEL (Inst. Materials and Systems for Sustainability, Nagoya University, **Japan**)  
„Wide bandgap semiconductors for energy saving applications“
- ❖ Prof. Peter FELFER (University of Erlangen-Nürnberg, **Germany**) (ERC starting grant holder)  
“Atom probe tomography of nanoparticles and other functional nanomaterials”
- ❖ Prof. Lan FU (Australian National University, Canberra, **Australia**)  
“III-V compound Semiconductor Quantum Well Nanowires - Materials and Devices”
- ❖ Dr. Pawel Kwasnicki (ML SYSTEM, Poland, Research Director, Warsaw, **Poland**)  
“Recent achievements in transparent PV cells”
- ❖ Prof. Jianwu SUN (Dep.Phys.Chem.Biology (IFM), Linköping University, **Sweden**)  
“Photocatalytic water splitting using advance semiconductor devices”
- ❖ NN  
“Biofabrication”

+ 4 additional invited speakers possible

#### **V. REGISTRATION & ABSTRACT SUBMISSION**

**Registration** (includes lunch & refreshments)

Pre-Registration (date, fee): until 31.07.2020,

Registration (dates, fee): until 31.08.2020, 180 EUR

Onsite Registration: from 01.09.2020, 220 EUR

**Registration opens on 06.06.2020**

#### **Financial support:**

Applications for support for Eastern European students will be considered in exceptional circumstances. An application letter should be sent to the EMRS Headquarter: [emrs@european-mrs.com](mailto:emrs@european-mrs.com)

## Abstract Submission

Abstract submission: 05.06.2020

Notification of acceptance: 30.06.2020

## VI. ADDRESSES TO SEND YOUR SUGGESTIONS, PROPOSED ACTIVITIES, etc...

Main conference email address: [icyram2020@pw.edu.pl](mailto:icyram2020@pw.edu.pl)

## VII. COMMITTEES

### YOUNG CHAIRPERSONS:

- ❖ Lan FU (Prof., MSc (USTC), PhD (ANU))  
University Canberra, Department of Electronic Materials Engineering, **Australia**
- ❖ Ewa KIJENSKA-GAWRONSKA (PhD, M.Sc, Eng.)  
Warsaw University of Technology, Faculty of Materials Science and Engineering,  
**Poland**
- ❖ Jianwu SUN (associate professor, head of semiconductor materials division)  
Department of Physics, Chemistry and Biology (IFM), Linköping University, **Sweden**
- ❖ Bartłomiej S. WITKOWSKI (DSc., PhD.)  
Institute of Physics of the Polish Academy of Sciences, **Poland**

### YOUNG SCIENTIFIC ADVISORS

- ❖ Saskia SCHIMMEL  
Inst. Materials and Systems for Sustainability, Nagoya University, **Japan**
- ❖ Peter FELFER  
University of Erlangen-Nürnberg, **Germany**

### SENIOR CHAIRS

- ❖ R.P.H. CHANG, IUMRS past president  
Northwestern University, **USA**
- ❖ Fusheng PAN, professor  
Chongqing University, **China**
- ❖ Peter WELLMANN, E-MRS president, professor  
Friedrich-Alexander University of Erlangen-Nürnberg, **Germany**

### SENIOR ADVISORS

- ❖ Gabriel M. CREAN, IUMRS past president, E-MRS past president, professor  
Gouvernement of Luxembourg; **Luxemburg**
- ❖ Malgorzata LEWANDOWSKA, professor at  
Warsaw University of Technology, **Poland**
- ❖ Abdelilah SLAOUI, E-MRS past president, professor  
University of Strasbourg, **France**
- ❖ Nicolas Walter, Director

European Science Foundation, Strasbourg. **France**

## **Travelling Information**

Warsaw is located in central Europe and easily reachable by car, train and plane. They are direct flight from all European capitals such as London, Frankfurt or Amsterdam and world airport hubs.

NEW: there is now a direct connection between Singapore and Chopin Airport four times a week.

The conference venue is the Warsaw University of Technology located in the city center close to the Old Town. A wide range of hotels nearby will provide accommodation to suit every pocket.

## **Getting to Warsaw**

**By plane :**

### **Chopin Airport**

Departures and Arrivals Information, phone + +48 22 650 42 20

On-line timetable [www.lotnisko-chopina.pl](http://www.lotnisko-chopina.pl)

Warsaw Frederic Chopin Airport, located some 12 km from the centre of the city can be easily reached by car, public bus or taxi.

<http://www.lotnisko-chopina.pl/en/passenger/access-and-car-parks>

### **Modlin Airport**

Airport webpage: <http://www.modlinairport.pl/>

Airport Information, phone +48 22 315 18 80

Train: By Modlin shuttle-bus to Modlin train station, then by train (KM) to Central Railway Station. (4-5 €)

Bus: Modlin-bus connects Modlin Airport and Central Railway Station

**By train :**

There are three train stations in Warsaw that handle international and domestic train traffic:

- Warszawa Centralna (Central Warsaw) (Aleje Jerozolimskie 54) - situated in the city center and very well connected to all of the city's districts.
- Warszawa Zachodnia (West Warsaw) (Aleje Jerozolimskie 144) - thanks to the neighbouring international bus terminal, this is where people travelling in or out of the country await their transfers.

- Warszawa Wschodnia (East Warsaw) (Lubelska 1) - located on the east side of Vistula River (Praga)

Railway tickets can be purchased at the cash-only windows (kasa) in the stations, on the Internet or at selected travel agencies. You can also purchase your ticket on the train from the conductor, whom you must seek out immediately upon boarding the train, to buy the ticket. Tickets sold on the train are subject to an additional fee.

Timetable of trains is available at: [www.pkp.pl](http://www.pkp.pl)  
[www.intercity.pl](http://www.intercity.pl)

### **By car :**

The main way to access to Warsaw by road is to take one of four major European routes:

- from the north: Route E77 (from Gdańsk)
- from the east: Route E67 (from Białystok), route E30 (from Terespol)
- from the south: Route E67 (from Wrocław), route E77 (from Kraków)
- from the west: Route E30 (from Poznań)

Along the roads are signs giving the number of kilometers to the centre of Warsaw.

### **Local Public Transport :**

The WUT Central Campus can be easily reached using the local public transport. The tram stop "Plac Politechniki" for lines 10, 14 and 15 is 1 min. walking from the venue and the metro station "Politechnika" is 10 min. walking.

The main railway station "Warszawa Centralna" is located in the city centre about 20 min. walking or 3 min. by tram 10 from the conference venue. Tram 10 departures from the stop "Dworzec Centralny" in the direction "Wyscigi" and "Służewiec" every 10-15 minutes. You need to get out at "Plac Politechniki" tram stop.

Both local trains (SKM -Fast Urban Railway, and KM - Masovian Railways), buses, tramways and metro require a valid ticket – one-way price is 1-2 € and can be bought in any kiosk, in ticket machines (on most bus stops or inside trains and buses) or from the bus driver.

### **Taxis :**

When using taxis in Warsaw, it is strongly recommended that you use only those with the following: the symbol of Warsaw – a mermaid – on both front doors, yellow/red stripes affixed to the glass along the front doors, a number stuck to the side of the vehicle, a hologram with the license number and the vehicle's registration number on the upper right-hand corner of the front glass and a sticker with price information per kilometer that must be displayed on the glass of the right-hand side back door. It is recommended for you to use one of the city's official Radio-Taxi companies, and order a taxi by telephone. The airport (Arrivals) is served only by 3 Radio-Taxi companies: Ele Taxi, Sawa Taxi i Super Taxi.

## Parking's :

There is no free public parking around the Conference Venue. The whole area of Warsaw city centre is a controlled parking zone. This rule applies from Monday to Friday, from 8 am to 6 pm. On Saturdays, Sundays and public holidays parking is free. Warsaw Car parks system "Park & ride": <http://www.ztm.waw.pl/parkujjedz.php?c=116&l=2>

Useful links:

- <http://www.ztm.waw.pl/?l=2>
- <http://warsawtour.pl/en>

## ORGANIZERS:

