

Welcome to

8TH EUROPEAN YOUNG ENGINEERS CONFERENCE

Hello dear Participants! We are glad to welcome you to the 8th EYEC – conference organised for young engineers connected with the field of chemical and process engineering and related disciplines.

Since 2012 our main goal is to provide an opportunity for young scientists to exchange their thoughts and ideas, in a casual and friendly atmosphere, without unwanted pathos or seriousness. The conference enables Participants to present their research and extend their knowledge as well as to integrate with one another.

In the *Participant's Guide* you can find plenty of useful information such as: **the agenda of the Conference, the Faculty map, transport tips and maps for additional events, organizations and companies that support us**, and many others.

We wish you a lot of fun during 8th EYEC.

Hope to see you next April too!

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Plenary Sessions

9:30 a.m., Monday, 8th April

1st PLENARY SESSION Material Engineering 1

1 Jolanta Nieroda

Dependence of preparation conditions on quality and strength of binder made of Tetraethyl orthosilicate and 1,2-Bis(triethoxysilyl)ethane

2 Maciej Bik

Optimization of SiAlOC glasses coatings' formation by means of structural and microstructural investigation

3 Katarzyna Czarnecka

Selection of solution blow spinning process parameters for the fabrication of controlled-alignment tissue engineering scaffolds

4 Paweł Goj

Structure of aluminum-iron phosphate glasses by theoretical and experimental studies

5 Aleksandra Kalbarczyk

Design and calibration of Young's interferometer with piezoelectric adjuster

6 Dawid Kozień

Thermal oxidation of boron carbide edges

2nd PLENARY SESSION

Mathematical modeling, simulations, optimization 1 & Other 1

1 Marcin Zemła

Ab initio-based kinetic Monte Carlo simulation of Cr segregation process in bcc-Fe-Cr alloys

2 Nina Borzęcka

Modelling dynamics of polymer chains grafted to a surface of a separative membrane

3 Ewa Litwinek

Influence of composition changes on rheological properties of clay-cement binders

4 Tomasz Rzemieniecki

Biologically active double salt ionic liquids with cations based on diglycolamine

5 John Noon

The Use of Rutin Hydrate Pickering Particles to Combat Lipid Oxidation in Food Emulsions

3rd PLENARY SESSION

Bioengineering, biotechnology, biomedical engineering

1 Magdalena Gawęda

Modification of black glasses layers properties for medical applications

2 Katarzyna Piekларz

Chitosan hydrogels based on the pyrimidine nucleoside (UMP)

3 Michał Wrzecinek

Poly(glycerol sebacate) as prepolymer material for biomedical applications – synthesis and purification method

4 Monika Budnicka

Manufacturing of polylactide substitutes for spongy bone with increased hydrophilicity - preliminary investigation and optimization of the process

5 Oliwia Jeznach

Immobilization of gelatin on electrospun polyesters nanofibers to enhance biological response

6 Ewa Rybak

Preparation and analysis of the surface of modified steel materials and their applications as a surface for endothelial cell culture

4th PLENARY SESSION

Mathematical modeling, simulations, optimization 2

1 Agnieszka Fus

Analysis of influence of aggregate structure on its behaviour in non-newtonian fluid

2 Krystian Jędrzejczak

Reconstruction of particle size distribution based on a finite number of distribution's moments in the Matlab environment

3 Radosław Krzosa

Computational fluid dynamics simulation of high shear mixers

4 Nikola Mijalić

Validation of the RANS turbulence model for CFD simulations of the Francis turbine

5 Norbert Wiatr

Modelling of suspension grinding processes in selected industrial apparatus

6 Adam Zieliński

Computational fluid dynamics simulations of electric storage-tank water heater

5th PLENARY SESSION
Material Engineering 2

1 Donata Kuczyńska-Zemła

Apatite inducing ability of titanium after direct laser interference lithography

2 Maciej Ludwig

High temperature interactions between refractory raw materials and copper slags

3 Zuzanna Góral

Studies on the fire protection properties of the wood adhesives

4 Justyna Pleśniak

Properties of 3Y-TZP/AL₂O₃ composite as a solid electrolyte material for a new generation of electrochemical devices.

5 Łukasz Rakoczy

Analysis of the nano-precipitates in the Ni-based superalloys by electron microscopy

6 Renata Szal

The barium-gallo-germanate glasses as a perfect matrix for RE ions to induce intense emission in UV, VIS and IR region

6th PLENARY SESSION
Analytical chemistry & Nanotechnology

1 Szymon Wójcik

New strategy of food samples classification base on decomposed voltametric signal

2 Anna Górská

High sensitive AdSV determination of iron in presence of azo compound on renewable mercury film electrode

3 Justyna Kopeć

Voltammetric testing of the degree of aluminum release from tea leaves

4 Nikola Lenar

All-solid-state Ca(2+)-selective electrodes with TCNQ and KTCNQ crystals as internal layer

5 Justyna Lipińska

Determination of Vitamin K2 by differential pulse voltammetry with bi-disc glassy carbon electrode

6 Radosław Porada

Vitamin B3 determination by means of voltammetry and electrochemical impedance spectroscopy techniques

7 Anna Wojewódzka

Towards novel ZnO quantum dots coated with mixed-ligand shell

7th PLENARY SESSION

**Apparatus, separation processes &
Environmental protection, alternative energy sources**

1 Bartosz Nowak

Influence of MTMS-based aerogel structure on properties of modified filter

2 Kamila De Witte

Verification of separation effectiveness of filters applied for diesel fuel dewatering

3 Zuzanna Bojarska

Graphene oxide-based materials as supports for catalyst nanoparticles

4 Marwa Saad

Selective Catalytic Reduction of NO with NH₃ at low temperature over Cu-promoted-N-modified activated carbon

5 Paulina Summa

Comparison of hydrotalcites-alike materials prepared by different synthesis methods

6 Agnieszka Szymaszek

Modified bentonite-derived materials as catalyst for selective catalytic reduction of nitrogen oxides (SCR)

7 Kinga Pogoda

Effect of vacuum on activated sludge

8th PLENARY SESSION
Material Engineering 3

1 Piotr Rożek

Post-synthesis modification of geopolymer structure

2 Dominika Czerwińska-Główka

Controlling the growth of bacterial biofilm on electroactive surfaces

3 Karolina Gębka

Electro-synthesis and investigation of indole and carbazole
"copolymers" with 3-hexylthiophene

4 Damian Honisz

Effect of changing chalcogen atom on electron delocalization
on benzochalcogendiazoles radical anions.

5 Łukasz Szymański

Composite layer reinforced by TiC particles fabricated in situ
in steel castings

6 Joanna Gnyla

Optimal parameters of the SiC-based suspension for the slip casting
method

9th PLENARY SESSION
Kinetics, thermodynamics & Other 2

1 Marcin Gerlich

Burn rate measurements and thermal analysis of gasless pyrotechnic compositions on the example of a Fe – BaO₂ system

2 Tomasz Kotkowski

Adsorption of volatile organic compounds on activated tyre pyrolysis char

3 Gyula Dargó

Synthesis of new, axial and central chiral (thio)squaramides, and their application as organocatalysts in enantioselective reactions

4 Zsuzsanna Fehér

Synthesis and application of a cinchona squaramide organocatalyst immobilized on poly(glycidyl methacrylate)

5 Petra Kozma

Synthesis and application of cinchona-based, enlarged organocatalysts

6 Sándor Nagy





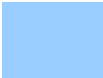




Investigation of the effect of cinchona organocatalyst's quinuclidine substituent on enantioselectivity in Michael reactions

7 Anna Drewniak

Synthesis and properties of 1,7-disubstituted perylene diimides

Poster Sessions

The colours of the cards attached to the stands relate to the following categories:

	Material Engineering
	Mathematical modeling, simulations, optimization
	Bioengineering, biotechnology, biomedical engineering
	Analytical chemistry
	Environmental protection, alternative energy sources
	Nanotechnology
	Apparatus, separation processes
	Kinetics, thermodynamics
	Other

1st POSTER SESSION

1 Bartosz Nowak

Oil mist filtration dynamics of fibrous filters modified with MTMS-based aerogel structure

2 Tanmay Netke

Industrial approach to membrane functionalization in biomedical applications

3 Igor Półgrabski

Regeneration method of fibrous filters modified with MTMS-based aerogel dedicated for oil mist separation

4 Melinda Pazmandi

Investigation of the potential of lactic acid fermentation in bio-remediation of whey

5 Marta Nowak

Determination of biocides in environmental samples using of LC-MS/MS

6 Monika Nowak

Elimination of acetamiprid by *Metarhizium* sp.

7 Anna Hlukaniuk

Hydrodynamical water purification

8 Jolanta Nieroda

Kinetic of drying process of sol solutions based on Tetraethyl orthosilicate and 1,2-Bis(triethoxysilyl)ethane

9	Zuzanna Góral	Impact of modified halloysite on intumescent properties of protective ceramic coatings
10	Paulina Piotrkiewicz	A possibility to obtain an Al ₂ O ₃ – Cu – Ni composites via slip casting method
11	Szymon Rojewski	Chemical modification of roving and textiles for application in prepregs
12	Michał Chodkowski	Wetting of silicon <100> surface by diiodomethane
13	Michał Chodkowski	Development of a force field for the simulation of liquid diiodomethane
14	Paulina Korycka	Verification of regression equations describing the effect of process parameters on the fiber diameter and the beads size
15	Albasher Shareif	Analysis of heat modelling failure around contiguous micro objects
16	Adam Mirek	Factorial design of the electrospun polymeric mat structures as a tool for selection of electrospinning process parameters
17	Anna Kuziel	c-CVD synthesis of helical carbon nanotubes as potential energy storage nanomaterials
18	Patrycja Wąsik	Ionic liquid dispersions of functionalised CNTs – en route to modern energy storage materials

19 Natalia Nowak

Synthesis of imidazole ionic liquids as dispersing media of carbon nanotubes

20 Urszula Szałaj

Water vapour adsorption on HAP nanocrystals

21 Magdalena Szaniawska

Kolliphor surfactants – adsorption properties

22 Magdalena Szaniawska

Sweeteners in food industry

23 Jakub Matusiak

Influence of surfactants on the adsorption of alginic acid on the alumina surface

24 Jakub Matusiak

Determination of β -cyclodextrin/surfactants complexes formation by surface tension measurements

2nd POSTER SESSION

1 Justyna Kopeć

Development of an electrochemical procedure for the determination of aluminum in tea samples

2 Katarzyna Czarnecka

Application of polymer-graphene fibrous nanocomposites in tissue engineering

3 Katarzyna Pieklarz

Hydrogels enriched with nanostructured carbon materials for use in bone tissue engineering

4 Sylwia Stiler-Wyszyńska

Polymer matrices for controlled dosing of drugs - perspectives

5 Sylwia Stiler-Wyszyńska

Dyeing techniques as markers of the hydrophobicity of the surface of contact lenses

6 Urszula Szałaj

Ultrasonic deposition of nano-hydroxyapatite layers on polymeric surfaces

7 Kinga Pogoda

Effect of vacuum on removal of nitrogen from activated sludge

8 Marta Nowak

The use of LC-MS/MS in the analysis the role of cytochrome P-450 in the PCPs elimination by fungi of the genus Basidiomycetes

9	Monika Nowak	Effect of acetamiprid on fungal biomass of <i>Metarhizium</i> sp.
10	Piotr Rożek	Lightweight geopolymer monoliths for methylene blue removal from wastewaters
11	Magdalena Gawęda	The influence of doping ions on the sol-gel synthesis of SiOC preceramic precursors
12	Michał Wrzecionek	Preparation of copolymer of poly(glycerol sebacate) and poly (L-lactide) and using it in the electrospinning method
13	Maciej Bik	Oxidation studies of coatings based on SiAlOC glasses
14	Paweł Goj	Molecular dynamics simulations and spectroscopic studies of sodium-iron phosphate glasses
15	Dawid Kozień	Chemical etching of boron carbide edges with the removal of excess carbon after synthesis
16	Aleksandra Kalbarczyk	The depolarization properties of nematic liquid crystal
17	Marcin Zemła	The ab initio study of hydrogen-vacancy complexes in diamond
18	Anna Kuziel	The impact of purification and characteristics of carbon nanotubes onto their dispersibility in ionic liquids

19 Sylwia Dąbrowska

Microwave reactors for hydro- and solvothermal synthesis.
Measurements problems and scale up possibility

20 Daria Czuryszkiewicz

Bis-ammonium herbicidal ionic liquids comprising cinnamate anion

21 Ewa Litwinek

Viscoelastic properties of clay-cement binders

22 Gyula Dargó

Development and application possibilities of new, hydrogen
bond donor organocatalysts

23 Tomasz Rzemieniecki

Synthesis and properties of chiral ionic liquids derived from
mandelic acid

24 Marcin Gerlich

New explosives precursors: investigation of the possibility
of obtaining pyrotechnic mixtures and explosives using substances
not covered by European regulations

3rd POSTER SESSION

1 Nikola Lenar

The influence of sodium-selective membrane composition on analytical parameters of TCNQ- based potentiometric ion sensors

2 Szymon Wójcik

Voltammetric determination of anethole on carbon electrodes

3 Justyna Lipińska

The study of voltammetric determination of Vitamin K2 with the application of carbon and mercury electrodes

4 Radosław Porada

Electrochemical sensor for the characterization and determination of benzodiazepines

5 Anna Górską

Metformin determination on modified GC electrodes using AdSV

6 Agnieszka Hahaj

Transfer of the static MTMS-based aerogel fibrous filter modification method to a flow system

7 Edyta Kruś

Characteristic of antifreeze proteins produced by psychrophilic yeast from *Glaciozyma martini* species

8 Barbara Zagajczuk

In vitro bioactivity evaluation of the gel-derived glasses doped with cerium, strontium, and zinc

9 Michał Bień

Study on oxygen absorption rate in aqueous solutions of protein in a disposable bioreactor with wave-induced agitation

10 Joanna Gnyla

Dispersing of submicrometric SiC powders and improving its rheological behavior

11 Renata Szal

Structural investigation on gallo-germanate glasses modified with various content of barium oxide

12 Łukasz Rakoczy

Application of the X-ray diffraction in the study of the gamma prime phase dissolution

13 Maciej Ludwig

Corrosion resistance of modified magnesia refractory material in contact with copper slag

14 Donata Kuczyńska-Zemła

Microstructure and mechanical analysis of laser structured titanium grade 2 for biomedical applications

15 Justyna Pleśniak

Ferritic steel modified with Gd₂O₃ nanoparticles and its oxidation resistance and electrical properties

16 Hubert Ronduda

Effect of precipitating agent on the structure, morphology and electrochemical properties of LiCoO₂ cathode material in lithium ion batteries

17 Magdalena Rzeszotarska

Magnesium Hydrides used in Hydrogen Storage Technology

18 Magda Pęska

Problems associated with hydrogen storage

19 Marta Lewusz, Ada Hlebowicz

Simulation of cascade LNG liquefaction process in Aspen Plus

20 Anna Wojciechowska

Characterization of Ligand Shell for Mixed-Ligand Coated Zinc Oxide Quantum Dots

21 Wojciech Frąckowiak

PDMS – coated Particle Track Membrane for microfluidics – fabrication and application

22 Daria Czurylskiewicz

Ionic liquids with tryptophanate anion as active ingredients prolonging vase-life of cut flowers

Organizers of the 8th EYEC



Scientific Club of Chemical and Process Engineering

functions at the Faculty of Chemical and Process Engineering since 2005. The aim of the Scientific Club's activity is the scientific development of its members and the promotion of the Faculty. The Club organizes meetings related to chemical and process engineering, such as: student lectures, training courses for the members, the EYEC conference. The members have an opportunity to expand their knowledge, develop organizational and teamwork skills and gain contacts in the scientific world.

*<http://www.knichip.pw.edu.pl>
knichippw@gmail.com*

Organizers of the 8th EYEC



**Faculty of Chemical
and Process Engineering**

WARSAW UNIVERSITY OF TECHNOLOGY

The Faculty of Chemical and Process Engineering

is a leading faculty in Poland offering chemical and process engineering studies. It holds a strong position and good reputation in Europe as well as in the world. In the scientific classification by the Ministry of Science and Higher Education based on the evaluation of the results of research activity the department has the highest, first category. Teaching staff is greatly involved in the organization of the Conference.

<http://ichip.pw.edu.pl>

Organizers of the 8th EYEC

Warsaw University of Technology

Warsaw University of Technology

is the oldest polish technical university. For over 180 years it has educated the next generation of engineers, making a huge contribution to the progress of technical sciences. University authorities and academics work to maintain the highest level of education. New study courses are opened, new laboratories created, the cooperation between industry and foreign centers developed. Warsaw University of Technology has since the beginning actively supported the organization of the Conference.

<https://www.pw.edu.pl>

Organizers of the 8th EYEC



Young Science Foundation

works to popularize the achievements of the Polish science and support developments of young scientists. The Foundation's mission is to promote the development and popularize the education, science and culture in Poland through cooperation between science and business and increasing access to reliable information about science and popular science.

<http://fmn.org.pl>

Silver Partners of the 8th EYEC

AN INITIATIVE OF THE



Federal Ministry
of Education
and Research

Research in
Germany



Land of Ideas

www.research-in-germany.org

Research in Germany

is an international research marketing campaign, funded by the German Federal Ministry of Education and Research (BMBF), which seeks to strengthen and expand R&D collaboration between Germany and international partners. The organisations involved in the campaign, e.g. the German Academic Exchange Service (DAAD), the German Research Foundation (DFG), the Fraunhofer-Gesellschaft and the BMBF International Bureau, organise joint communication activities and events which present German innovation and research in key international markets.

<http://www.research-in-germany.org/en>

Silver Partners of the 8th EYEC



Dow Chemical Company

combines science and technology knowledge to develop premier materials science solutions that are essential to human progress. Dow has one of the strongest and broadest toolkits in the industry, with robust technology, asset integration, scale and competitive capabilities that enable it to address complex global issues. Dow's market-driven, industry-leading portfolio of advanced materials, industrial intermediates, and plastics businesses deliver a broad range of differentiated technology-based products and solutions for customers in high-growth markets such as packaging, infrastructure and consumer care.

<https://www.dow.com/en-us>

Silver Partners of the 8th EYEC



Symkom

Symkom - ANSYS Channel Partner in Poland is present on the Polish market since 1997. The main goal of the Symkom company is the implementation of comprehensive solutions in the field of numerical analysis based on ANSYS software. As a long-term partner of Fluent and later ANSYS, we have over twenty years of experience in numerical modeling. We offer professional software for fluid, mechanical and electromagnetic simulations. We provide consultations and training at the highest *level*.

<https://symkom.pl/>

Bronze Partners of the 8th EYEC



Pro-Mill

is a young, dynamically developing engineering company founded by two former students and members of our Scientific Club, that specializes in designing and manufacturing devices for the biotechnology, food and pharmaceutical industries. They are a close-knit, experienced team of process engineers, mechanics and automation engineers with a suitably equipped production department. They specialize in the production of tailor-made equipment - adapted to the exact needs of the client. The office and production hall are located in Piastów near Warsaw, which enables constant control over the production process. Their portfolio extends from individual devices to whole modular installations with complex metering, automation and on-line data acquisition.

<http://pro-mill.pl/>

Bronze Partners of the 8th EYEC



shim-pol

SHIM-POL A.M. Borzymowski

is an exclusive representative of *SHIMADZU*, *KRATOS* and *PHENOMENEX* corporations in Poland in terms of equipment for quality control laboratories, industry, food and pharmaceutical production, medical and environment protection laboratories. Company ensures service support of the products in service centers located in Poland.

They offer:

Equipment for gas and liquid chromatography;

Mass spectrometry equipment;

XPS and EDX analysis equipment;

Sample preparation SPE Horizon equipment;

Chromatography columns and Phenomenex accessories.

Testing machines - static and dynamic;

Texture analyser;

Microhardness testers Vickers and Knoop;

Ultrafast digital camera Hyper Vision;

Bronze Partners of the 8th EYEC

CISOWIANKA



Patronages of the 8th EYEC



Ministry of Science
and Higher Education

Republic of Poland



**Faculty of Chemical
and Process Engineering**

WARSAW UNIVERSITY OF TECHNOLOGY

**Warsaw University
of Technology**

Patronages of the 8th EYEC



Poland Innovative

is a foundation that brings together the representatives of the worlds of science, business, startups, public and private institutions as well as NGOs who are Poles or have Polish origin. Their main values are: collaborating network, interdisciplinary growth, knowledge sharing, projects transdisciplinarity and ethics in actions. They create valuable projects for the inhabitants of Poland and the world, guided by the sentence "think globally and act locally".



Fundacja
TYGIEL

Tygiel foundation

is an organisation whose main activities are focused on the implementation of important social tasks, supporting activities for the comprehensive development and growth as well as research achievements in various fields of science. The foundation pursues its objectives through cooperation with research centres and other institutions in the scope of organisation of lectures and conferences, scholarships and training programs along with other activities aimed at implementing interdisciplinary scientific projects.

Patronages of the 8th EYEC



Polish Chamber of Chemical Industry

is the largest industry organisation representing the sector in the national and international arena. It is also the most important representative of companies and institutions connected with the Polish chemical industry in their relations with public administration bodies, European administration authorities and industry organisations. PIPC not only organises numerous conferences, seminars and meetings dedicated to the most important aspects of the daily activity of the domestic chemical industry but it also searches itself for the best pro-growth solutions for the whole sector.

Patronages of the 8th EYEC

PhD Student Council of the WUT

**Rada
Doktorantów**

POLITECHNIKA WARSZAWSKA

PhD Student Council of the Warsaw University of Technology and its board, being the representative of the PhD Student Council of the Warsaw University of Technology is aiming to support the organization and execution of all the initiatives which goal is to make permanent positive changes in the situation of the PhD students. This applies to ensuring respect for the rights of PhD students and propagation of scientific and cultural activities of the PhD students. Besides that, the PhD Student Council represents the matters of the WUT PhD students environment towards University Authorities and other associations.

Patronages of the 8th EYEC

The Career Office

Biuro Karier

is an organization that helps students of our POLITECHNIKA WARSZAWSKA university with creating an interesting CV and connecting companies and graduates looking for a job. All students and graduates can rely on them when looking for an internship, practice or a job.

Academic IT Research Group (KNI)



A vigorously developing student society eagerly engaging in numerous IT project in various technologies and languages. Our members believe that in computer science one can achieve a lot more while working in a team and that is the spirit we desire to spread around. What is more we are creating a great deal of opportunities for beginners in IT field to find a suitable workplace by organizing Warsaw IT Days and Internship Days for all interested. Another realm of our activity is internal and external integration and self-development in the shape of events such as KNIght Party and Cyber Security Conferences.

Patronages of the 8th EYEC

PhD Student Council of the IChIP



associates PhD students and represents the in front of the Authorities of the Warsaw University of Technology. The Council also promotes students' initiatives and accomplishments.

National Representation of PhD Students

Krajowa
Reprezentacja
Doktorantów



is a nationwide representative and exponent of the environment will postgraduates. KRD has the right to express their opinion and present of proposals in matters relating in general to PhD Students, including giving opinion of normative acts concerning the PhD Students. In its statutory activities KRD has the right to:

- represent the interests and defending the rights of PhD Students,
- development of local doctoral government,
- cooperation with scientific centers supporting scientific activity of PhD Students,
- suport initiatives of PhD Students,
- building cultural and social relationships,

Patronages of the 8th EYEC



COPERNICUS
SCIENCE CENTRE

Copernicus Science Centre

is an institution based in
Warsaw, which was opened

in 2010. Known as a real treat for science lovers, it is one of the largest and most modern institutions of that kind in Europe. CSC contains hundreds of interactive exhibits that enable visitors to broaden their scientific knowledge and to discover the laws of science for themselves. The Centre's main value is to *'inspire people to observe, experiment, ask questions and seek answers'*.

Each year since 2008, the Copernicus Science Centre, together with Polish Radio, organizes the Science Picnic that is known as Europe's largest outdoor science-popularization event.

Overall, CSC is an institution that provides the finest possible experience to the million visitors it welcomes every year and that strengthens the relationship between science and society.

Media Patronages of the 8th EYEC

TVPW



TVPW

is the most popular student internet television in Poland. It is an organization, which is a part of Warsaw University of Technology, created by young people with different interests and views on many matters, from different universities and faculties. However, there is one thing common for all of them – the passion of making video – news, reportages, TV programmes. This is the only student TV in Poland with its own cyclic live programme – TVPW LIVE, in which Polish celebrities, such as journalists, actors and singers, are interviewed. TVPW makes live coverages from the most important events of WUT, such as Miss&Mister Contest, Juwenalia and Robomaticon. All videos are available at www.tvpw.pl. Enjoy!

The Old Town Walking Game!



Warsaw enigma

The war of fake news continues. Using websites and smartphones (based, by the way, on an invention of a Polish-born engineer) neighbours of Warsaw are spreading rumours that the capital city became popular only thanks to moviemakers, bikers and pet owners.

But the truth is different. It is hiding in the quiet scientists' offices, chemical laboratories and city archives.

It's not too late yet: Down the streets of Warsaw stroll three characters that will give you the keys to this enigma. Find them, collect the hints and help the City Council prove that it was science that made Warsaw into a bustling with life metropolis.

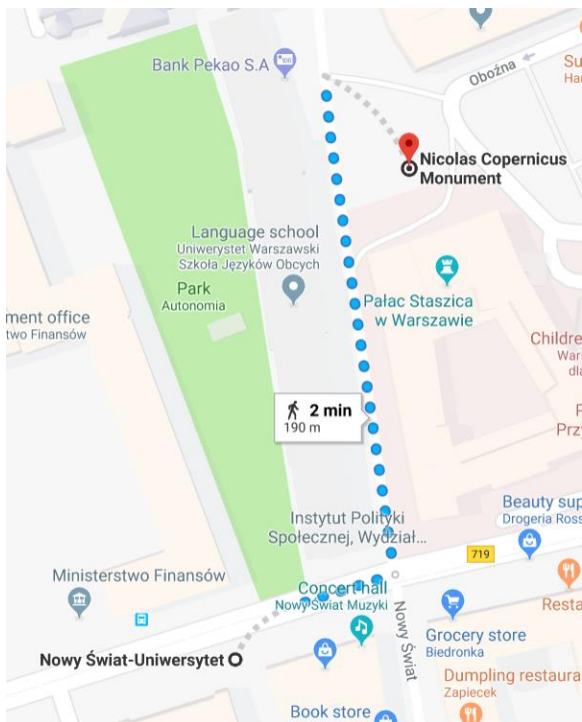
When?

08.04.2019 8:00 p.m.

Where?

Copernicus Monument

Krakowskie Przedmieście St.



We look forward to seeing you there!

Integration Party!



Some may think that science and conferences are dull and formal. To break that stereotype we'd love to invite you for the integration party which is going to take place in **Makulatura Klub**. It's located on **5 Chmielna St.** right in the center of Warsaw. Chmielna St. is considered one of the most fancy streets in Warsaw so prepare for a great party you'll remember for a long time! There you will have a chance to meet some new interesting people from the scientific world and let us know how you are enjoying the conference so far.

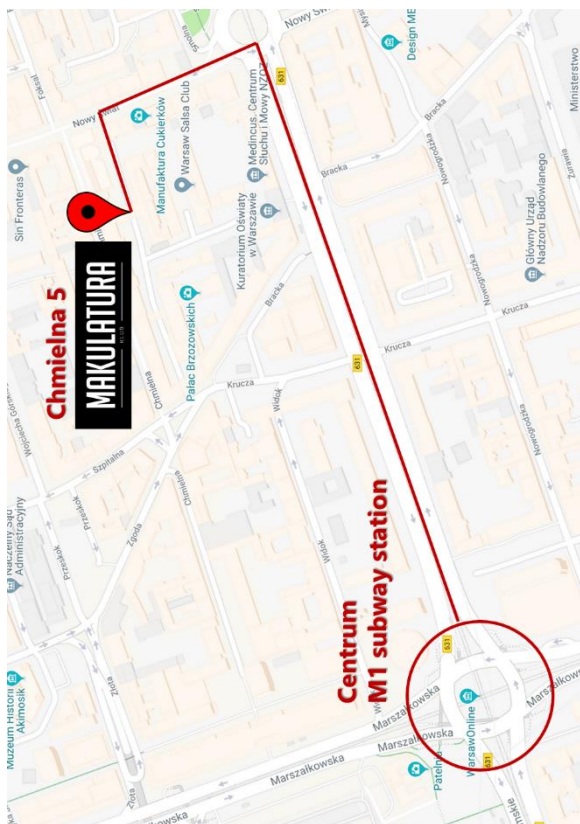
When?

09.04.2018 **8:30 p.m.**

Where?

Makulatura Klub

Chmielna 5 St.



Come and have a lot of fun!

Badges of the 8th EYEC

Every badge colour is assigned to a group. See below:



DEAN

PANELIST

SCIENTIFIC COMMISSION

PARTICIPANT

SPECIAL GUEST

PATRON

PARTNER

ORGANIZER

Panel Discussion

A brand new initiative launched during this EYEC edition is the Panel Discussion held on **Tuesday 9th** of April at **1:00 p.m.**

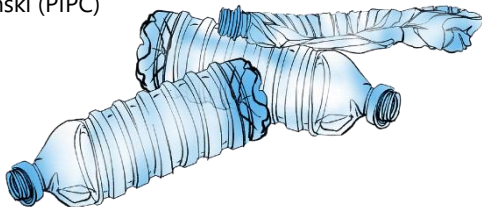
The subject of the panel is:

Challenges related to the implementation of EU regulations regarding the reduction of plastics.

As you can probably expect from the subject, the discussion will concentrate on the subject of waste and the changes that will be brought by the implementation of the EU regulations as well as different problems related to the subject at hand.

Panelists:

- Giuseppe Santoro (DOW)
- Jakub Syczewski (Bogucki Folie)
- Jörg Vienken (ERA-EDTA)
- Tomasz Zieliński (PIPC)

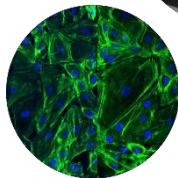
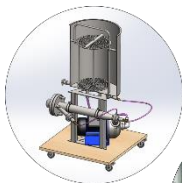


Laboratory Tours!

This year we offer a chance to visit our Faculty's laboratories. Please note that the number of attendees is limited. If you haven't signed up for a tour, please ask the organizers whether there are any vacant spaces left.

The Lab Tours include:

- *Process Equipment Laboratory Tour*
- *Graphene Laboratory Tour*
- *Filtration Laboratory Tour*
- *Presentation of a beer brewing installation*
- *Confocal Microscope Display*



Contests for participants!

To make the conference time a bit more interesting we decided to organize special contests for Participants. During the 8th EYEC edition there will be held three of them: **Scientific photo contest**, **Conference photo contest** and a brand new one: **EYEC Slogan contest**. The first one allows you to share your scientific work with the whole world and the second one is simply for you to have fun (and try to show it on a picture!). Also, this year we want to launch a contest for the best slogan related to the Conference. More details can be found in the regulations on our site: <https://www.eyec.ichip.pw.edu.pl/>.

We would like to invite you to take part in the contests and hope to receive lots of photos from you (obviously, awards are predicted). Remember to add hashtags:

- **#EYEC2019** (in **all** contests) and
- **#EYECscience** (Scientific Photo Contest)
- **#EYECpic** (Conference Photo Contest)
- **#EYECslogan** (Slogan Contest)
when publishing your photos!

If you do not have Facebook or Twitter account, you can use your friends' profile with annotation of your name.

Special Guests



Prof. Jörg Vienken, PhD
*Reliability, fraud and misunderstandings
in Science. The four "Fs"*

Prof. Dr. Dr. h.c. Lorenz Ratke
*Aerogels - Synthesis, properties and
applications of an almost nothing*



Heinrich Eckhard Kolb, Dipl. -Ing.
*Transitional phenomena in oil mist
filtration*

Magda H. Barecka, PhD
*Process intensification: chances
& barriers for process retrofitting*



Wiktor Lewandowski, PhD
*Switchable metamaterials working
in the visible*

Scientific Commission



Zoltan Kovacs, PhD
Szent István University



Artur Małolepszy, PhD
Warsaw University of Technology



Oleksandr Ivashchuk
Lviv Polytechnic National University



Piotr Mazurek, PhD
Technical University of Denmark



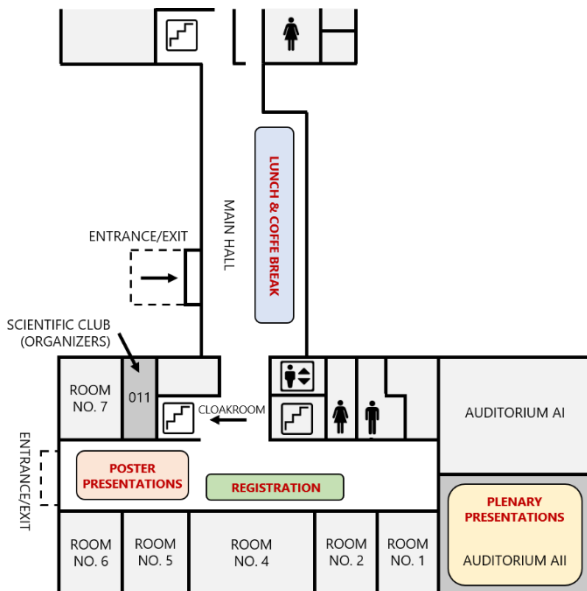
Marcin Małek, PhD
Military University of Technology



Andrzej Krasieński, PhD DSc
Warsaw University of Technology

Conference Area Plan

The Faculty of Chemical and Process Engineering
If you have any questions, you can find us in **room 011**.



Contact

SCIENTIFIC CLUB OF CHEMICAL AND PROCESS ENGINEERING



- address: **Waryńskiego 1 St., room 011,
00-645 Warsaw, Poland**
- phone number: **(+48) 22 234 63 17**
- e-mail address: **eyec.ichip@pw.edu.pl**
knichippw@gmail.com
- website: **www.eyec.ichip.pw.edu.pl**
www.knichip.pw.edu.pl



**Ministry of Science
and Higher Education**

Republic of Poland

International Conference "European Young Engineers Conference" (EYEC) – task financed under the agreement 812/P-DUN/2019 from funds of the Ministry of Science and Higher Education of Poland intended for activities popularising science.

Conference Schedule

Monday, 8 April

8:00 a.m.	Registration
8:45 a.m.	Opening Ceremony
9:00 a.m.	Special Guest: Prof. Lorenz Ratke <i>Aerogels - Synthesis, properties and applications of an almost nothing</i>
9:30 a.m.	1 st Plenary Session Material Engineering 1
11:00 a.m.	Coffee break
11:30 a.m.	2 nd Plenary Session Mathematical modeling, simulations, optimization 1 & Other 1
12:45 p.m.	8 th EVEC Partners Research in Germany - Funding opportunities in Germany for students and PhD candidates
1:00 p.m.	Lunch
2:00 p.m.	Special Guest: Prof. Jörg Vienken <i>Reliability, fraud and misunderstandings in Science. The four "Fs"</i>
2:30 p.m.	3 rd Plenary Session Bioengineering, biotechnology, biomedical engineering
4:00 p.m.	1 st Poster Session
4:45-5:15 p.m.	Coffee break Laboratory Tours
8:00 p.m.	Warsaw Old Town City Game

Tuesday, 9 April

9:00 a.m.	Special Guest: Magda Barecka, PhD <i>Process intensification: chances & barriers for process retrofitting</i>
9:30 a.m.	4 th Plenary Session Mathematical modeling, simulations, optimization 2
11:00 a.m.	Coffee break
11:30 a.m.	5 th Plenary Session Material Engineering 2
1:00 p.m.	Panel discussion <i>Challenges related to the implementation of EU regulations regarding the reduction of plastics</i>
1:45 p.m.	Lunch
2:45 p.m.	Special Guest: Wiktor Lewandowski, PhD <i>Switchable metamaterials working in the visible</i>
3:15 p.m.	6 th Plenary Session Analytical chemistry & Nanotechnology
5:00-5:45 p.m.	2 nd Poster Session
	Coffee break
8:30 p.m.	Integration Party

Wednesday, 10 April

9:00 a.m.	Special Guest: Eckhard Kolb, PhD <i>Transitional phenomena in oil mist filtration</i>
9:30 a.m.	7 th Plenary Session Apparatus, separation processes & Environmental protection, alternative energy sources
11:15 a.m.	Coffee break
11:45 a.m.	8 th Plenary Session Material Engineering 3
1:15 p.m.	8 th EVEC Partners DOW
1:35 p.m.	Lunch
2:35 p.m.	9 th Plenary Session Kinetics, thermodynamics & Other 2
4:20 p.m.	3 rd Poster Session
5:05 p.m.	Closing Ceremony
	Coffee break