

7th Fluorine Days

18-22 June 2023

Poznań, Poland



7th Fluorine Days

PROGRAMME

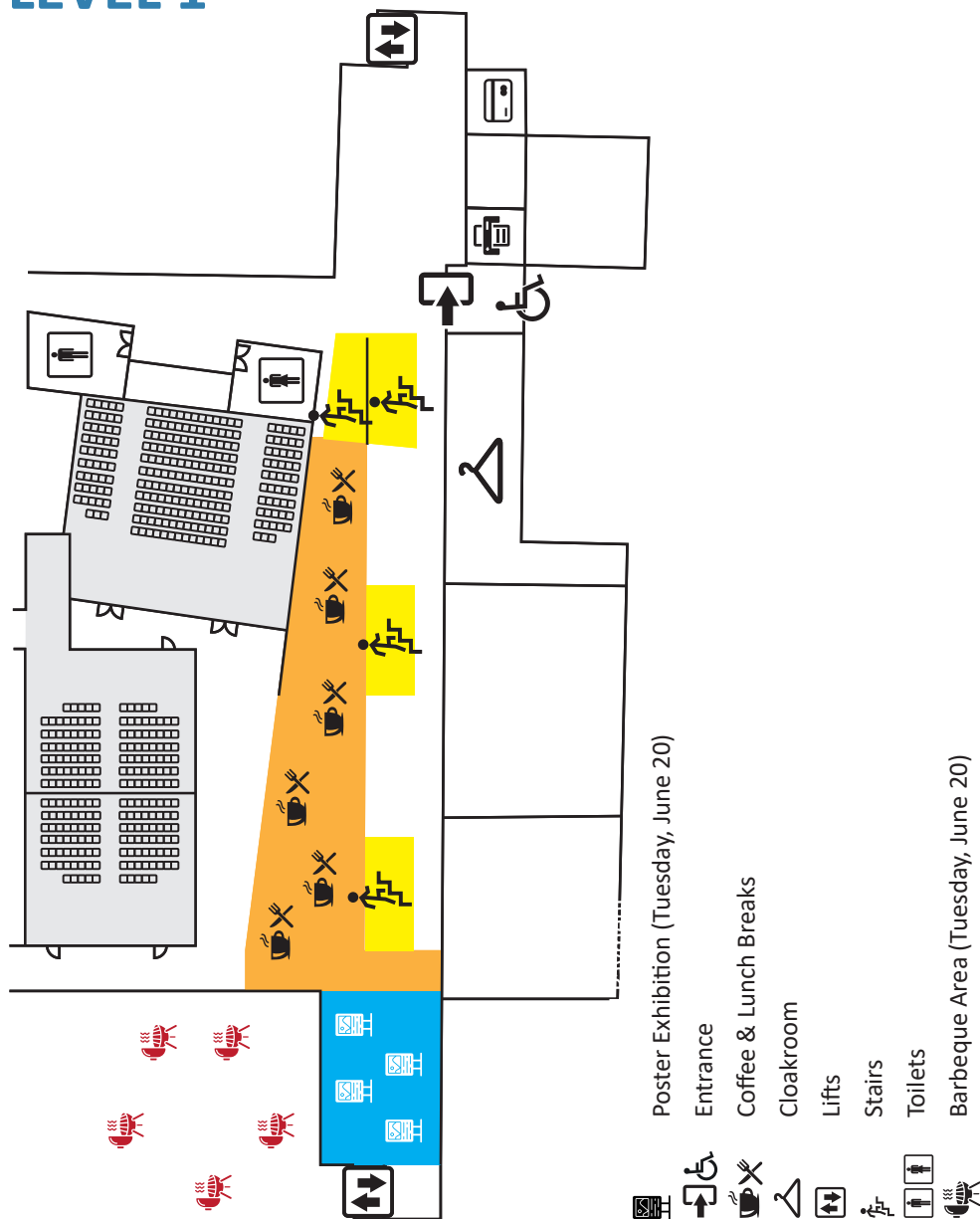


Sunday, June 18, 2023		Monday, June 19, 2023		Tuesday, June 20, 2023		
		8:00 - 9:00		Registration		
		9:00 - 10:00		Opening Ceremony		Session 3
				9:00 - 10:00	PL 2	Pierangelo Metrangolo
				Session 1	10:00 - 10:30	IL 4 Petr Beier
		10:00 - 11:00	PL 1	Marie-Pierre Krafft	10:30 - 11:00	IL 5 Ivan S. Kondratov
		11:00 - 11:30		Coffee Break	11:00 - 11:30	Coffee Break
		11:30 - 12:00	IL 1	Benoît Crousse	11:30 - 12:00	IL 6 Thomas Braun
		12:00 - 12:30	IL 2	Loránd Kiss	12:00 - 12:30	IL 7 Jörg Feldmann
		12:30 - 13:00	IL 3	Iwao Ojima	12:30 - 13:00	IL 8 Claire Rees
		13:00 - 14:00		Lunch	13:00 - 14:20	Lunch
		14:00 - 14:20		Photo Group		
				Session 2		Session 4
		14:20 - 14:40	L 1	Peer Kirsch	14:20 - 14:40	L 9 Junji Ichikawa
		14:40 - 15:00	L 2	Ivan Diego Wlassics	14:40 - 15:00	L 10 Tomasz Cytlak
		15:00 - 15:20	L 3	Thomas Hohmann	15:00 - 15:20	L 11 Udo Radius
		15:20 - 15:40	L 4	Karol Kacprzak	15:20 - 15:40	L 12 Anna Szwajca
		15:40 - 16:00		Coffee Break	15:40 - 16:00	Coffee Break
		16:00 - 16:20	L 5	Katarzyna Koroniak-Szejn	16:00 - 16:20	L 13 Jan Gnidovec
		16:20 - 16:40	L 6	Florian Kraus	16:20 - 16:40	L 14 Tomasz Siodła
		16:40 - 17:00	L 7	Michał Barbasiewicz	16:40 - 17:00	L 15 Aleksandr Kostyuk
17:00 - 18:50	Registration	17:00 - 17:20	L 8	Jan Jelen	17:00 - 17:20	L 16 Hong Liu
19:00 - 21:30	Welcome Reception	17:20 - 19:30		Spare Time	17:20 - 18:50	Poster Session
		19:30 - 21:30		Organ Concert in Fara Church	19:00 - 21:30	Barbecue

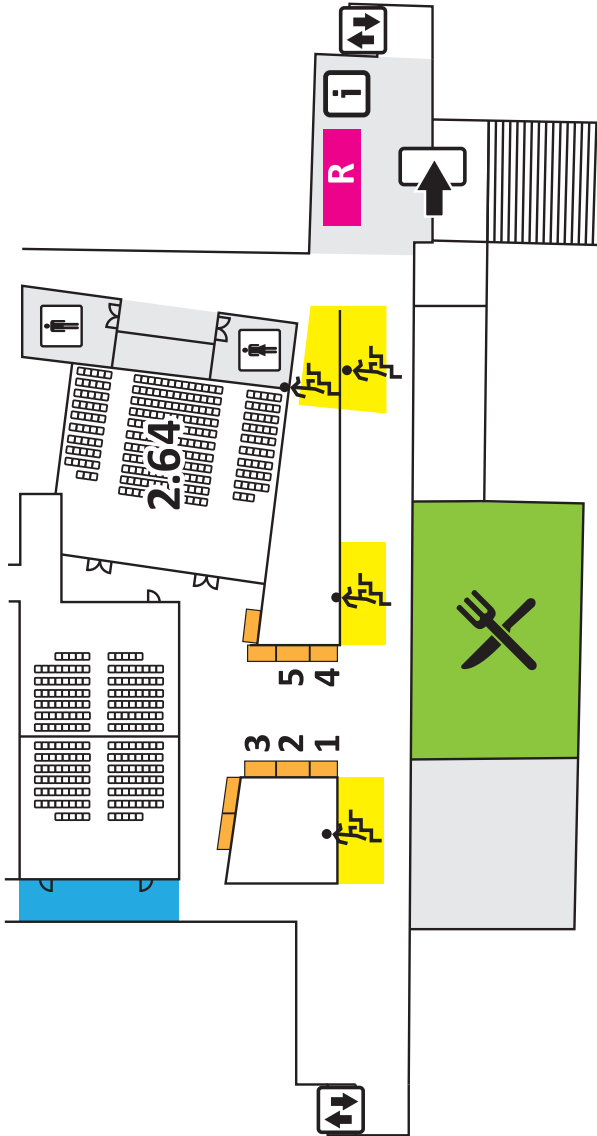
Wednesday, June 21, 2023			Thursday, June 22, 2023		
		Session 5			Session 7
9:00 - 10:00	PL 3	Wojciech Grochala	9:00 - 10:00	PL 4	Norio Shibata
10:00 - 10:30	IL 9	Jaroslav Kvičala	10:00 - 10:30	IL 14	Gerd-Volker Rösenthaller
10:30 - 11:00	IL 10	Sebastian Riedel	10:30 - 11:00	IL 15	Takahiko Akiyama
11:00 - 11:30		Coffee Break	11:00 - 11:30		Coffee Break
11:30 - 12:00	IL 11	Herbert Walter Roesky	11:30 - 12:00	IL 16	Jean-Marc Vincent
12:00 - 12:30	IL 12	Tom Lectka	12:00 - 12:30	IL 17	Frederik Diness
12:30 - 13:00	IL 13	Robert Syvret	12:30 - 13:00	IL 18	Roman Dembinski
			13:00 - 13:30	IL 19	Rudi Feist
13:00 - 14:20		Lunch	13:30 - 13:40		Closing Ceremony
			13:40 - 14:30		Lunch
		Session 6			
14:20 - 14:40	L 17	Justyna Walkowiak-Kulikowska	14:30 - 18:00		Poznań Sightseeing
14:40 - 15:00	L 18	Alberto Pérez-Bitrián			
15:00 - 15:20	L 19	Anja Pavlovič			
15:20 - 15:40	L 20	Magdalena Rapp			
15:40 - 16:00		Coffee Break			
16:00 - 16:20	L 21	Evelin Gruden			
16:20 - 16:40	L 22	Przemysław Malinowski			
16:40 - 17:00	L 23	Maik Finze			
17:00 - 20:00		Spare Time			
20:00 - 00:00		Gala Dinner			



LEVEL 1












LEVEL 2



Exhibitors 1-5:

1. Apollo Scientific Ltd
2. ChemPUR GmbH
3. Shim-Pol
4. abcr GmbH
5. Magritek GmbH

	Canteen
	Lifts
	Stairs
	Toilets
	2.64
	Conference Room
	Registration Desk
	Information
	Main Entrance



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Honorary Patronage
of the Mayor of Poznań



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Poznań Science
and Technology Park

Programme Overview.....	2
Floor Plan of the Faculty of Chemistry	4
Patrons, Organizer, Sponsors, Partner	6
Content.....	7
Scientific Committee	8
Organizing Committee.....	9
Welcome Note by the Dean of Faculty of Chemistry	10
Welcome Note by the Conference Chairman.....	11
General Information	12
Accompanying Events.....	18
Organ Concert in Fara Church (Monday, June 19).....	20
Poznań Sightseeing (Thursday, June 22).....	21
Information for presenters	22
Scientific programme • Monday, June 19, 2023	23
Scientific programme • Tuesday, June 20, 2023.....	25
Scientific programme • Wednesday, June 21, 2023.....	27
Scientific programme • Thursday, June 22, 2023.....	29
Poster presentations • Tuesday, June 20; 17:20 - 18:50	30
List of participants	36

Prof. Renzo Ruzziconi

Università degli Studi di Perugia, Italy

Prof. Jean-Marc Vincent

Université de Bordeaux, France

Prof. Santos Fustero

Universidad de Valencia, Spain

Centro de Investigación Príncipe Felipe, Valencia, Spain

Prof. Gerd-Volker Rösenthaller

Constructor University Bremen (formerly Jacobs University Bremen), Germany

Prof. Yi Pan

Nanjing University, China

Prof. Henryk Koroniak

Adam Mickiewicz University in Poznań, Poland

Prof. Norio Shibata

Nagoya Institute of Technology, Japan



Professor Henryk Koroniak
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Sebastian Golczak, PhD
Piotr Karwatka, MSc
Marcin Kaźmierczak, PhD
Mateusz Klarek, MSc
Karolina Paszek, MSc
Magdalena Rapp, DSc
Katarzyna Salamon-Krokosz, MSc
Anna Sz wajca, DSc
Joanna Tomaszewska, PhD
Justyna Walkowiak-Kulikowska, DSc
Hanna Wójtowicz-Rajchel, DSc
Joanna Wolska, PhD





Ladies and Gentlemen,
Dear Colleagues,

Welcome to Poland! Welcome to Poznań!

It is our great honor and privilege to welcome you to Faculty of Chemistry, Adam Mickiewicz University, host of 7th Fluorine Days.



Poznań is an old and beautiful city, one of the largest academic and research centers in Poland. It is in fact also one of the oldest cities in Poland, and one of the few most important ones. It may be argued – in which reasoning the scholars of our university have played crucial role – that here, at this very place, the Poland as a country was born more than thousand years ago. I really do hope you will have time (organizers certainly will take care of this) to visit the most important historical sites here...

Our academic tradition dates back to the beginning of the 17th century, when the first educational institutions of the university rank were established here. Since then, with breaks resulting from the turbulent history of this part of Europe, scholars and students have been a permanent component of the Poznań community. The contemporary history of academic Poznań begins after the First World War, after Poland regained its independence. The Poznań University, which later became the Adam Mickiewicz University, is one of the best universities in Poland. And we, the university, community of scholars and students, are still developing, despite the hard times. Our new Campus Morasko, including new Collegium Chemicum, where this meeting is held, is a good example of that.

Thanks for attending 7th Fluorine Days, thanks for visiting Faculty of Chemistry, Adam Mickiewicz University, thanks for visiting Poznań. I am sure that these few days will be a time of fruitful exchange of thoughts, new ideas and new contacts, as well as getting to know this very special, beautiful part of Poland.

Professor Maciej Kubicki
Dean and Professor, Faculty of Chemistry

Dear Fluorine Friends,

The 7th Fluorine Days meeting continues to be a leading forum providing a wide overview of all aspects of fluorine chemistry. The symposium is addressed to scientists and researchers from “Fluorine community” coming from academia as well as from industry. The main goal of this meeting is to exchange new “fluorinated” ideas within this society. The formula of this symposium has been established within the last years on previous meetings held in Perugia (Italy, 2001 and 2010), in Valencia (Spain, 2012), in Bordeaux (France, 2014), in Bremen (Germany, 2016) and in Nanjing (China, 2018).



The 7th Fluorine Days will be held in Poznań, Poland, on June 18-22th, 2023. Why Poznań? About 11 centuries ago Poznań was the place where Poland as a State began. Later, Poznań became a vibrant medieval and renaissance city, but in the 19th century it was turned into a stronghold, one of the largest in the world. In the 20th century several historical events of great importance took place in Poznań.

Now Poznań is not only a historic city, well known for its historical heritage, industry and commerce, but one of the largest academic centers in Poland with over 100.000 students in more than 10 universities. Poznań is the capital of the Wielkopolska region (Greater Poland) located on the banks of Warta River, amidst lakes, forests, glacial hills, lavish residences of noblemen with their amazing grounds, and other tourist attractions.

The long tradition of higher education in Poznań is often connected with the College of St. Maria Magdalena, founded in 1303 but still operating today as a secondary school. Lubrański Academy established in 1520, had to close just before Poland lost its independence at the end of the 18th century. Poznań University was inaugurated in 1919 and in 1955 has been named after the famous Polish poet Adam Mickiewicz University. The 7th Fluorine Days meeting will be held in new building of Collegium Chemicum, in beautiful area of Morasko University Campus, which is conveniently connected by a fast tramline to the city (about 10 min).

We cordially welcome you to Poznań, to attend the 7th Fluorine Days.

Professor Henryk Koroniak
Chairman
7th Fluorine Days



Venue:

Adam Mickiewicz University in Poznań
Faculty of Chemistry
Uniwersytetu Poznańskiego 8, 61-614 Poznań

Date:

18-22 June 2023

Conference Language:

The lectures will be in English.

Registration:

The Registration Desk will be open during the following hours:

Sunday: 17:00 – 18:50

Monday – Wednesday: 8:00 – 17:00

Please be prepared to present your ID and, if applicable, a proof of your student status.

Name Badge:

Participants, accompanying persons and exhibitors are kindly requested to wear their name badge during all conference events. Admittance to the scientific sessions, exhibition and social events will be refused if the required badge cannot be presented. Lost badges will be replaced at the Registration Desk upon presentation of an identity card.

The name badge entitles to travel all public transport lines in Poznań.

Badge is valid only with ID.

Certificates of Participation:

Certificates of Participation will be issued together with the conference package.

Internet:

The EDU-ROOM network will be active in the building for the duration of the conference.

Catering:

Free lunches and soft drinks will be offered to all participants during Lunch Breaks at the catering area. Tea and coffee will be available free of charge in the morning and in the afternoon during Coffee Breaks.

Hotel Accommodation:

A broad range of hotels as well as budget accommodation are available in Poznań. Please see <https://fluorine2023.com/accommodation> for more details.

Gala Dinners Venue:

Restauracja BAZAR 1838
Paderewskiego 8, 61-770 Poznań

Detailed city map is included in the conference materials.

Move around the city:

The Faculty of Chemistry owns an outdoor parking (free of charge).

For planning a trip by public transport please visit page:

<https://www.ztm.poznan.pl/en/rozklad-jazdy/>

We recommend reaching the conference venue by public transport.

We recommend you download the free application [jakdojade.pl](https://www.jakdojade.pl) which contains the current timetables of public transport along with the maps. The app is available in English. If you allow it to see your location, it can show you the best connection from wherever you are (it shows both buses and trams).

You can also use the application free of charge on the website:

<https://jakdojade.pl/poznan/trasa>

From Poznań-Ławica Airport to Poznań Main Railway Station („Poznań Główny”):

Bus line: 159

Estimated time: 20min

Getting on: bus stop „Port Lotniczy Ławica”

Getting off: bus stop „Poznań Główny”



From Poznań Main Railway Station („Poznań Główny”) to the Faculty of Chemistry:

Tram lines: 12

Estimated time: 20min

Getting on: tram stop „Poznań Główny”

Getting off: tram stop „Os. Sobieskiego” + 10min of walk (see map, page...)

From “Rondo Kaponiera” to the Faculty of Chemistry:

Tram lines: 15, 16

Estimated time: 15min

Getting on: tram stop “Rondo Kaponiera”

Getting off: tram stop “Os. Sobieskiego” + 10min of walk (see map, page...)

From “Rondo Kaponiera PST” to the Faculty of Chemistry:

Tram stop “Rondo Kaponiera PST” is underground.

Tram lines: 12, 14

Getting on: tram stop “Rondo Kaponiera PST”

Getting off: tram stop “Os. Sobieskiego” + 10min of walk (see map, page)

TAXI in Poznań:

Available taxis can be found on the website:

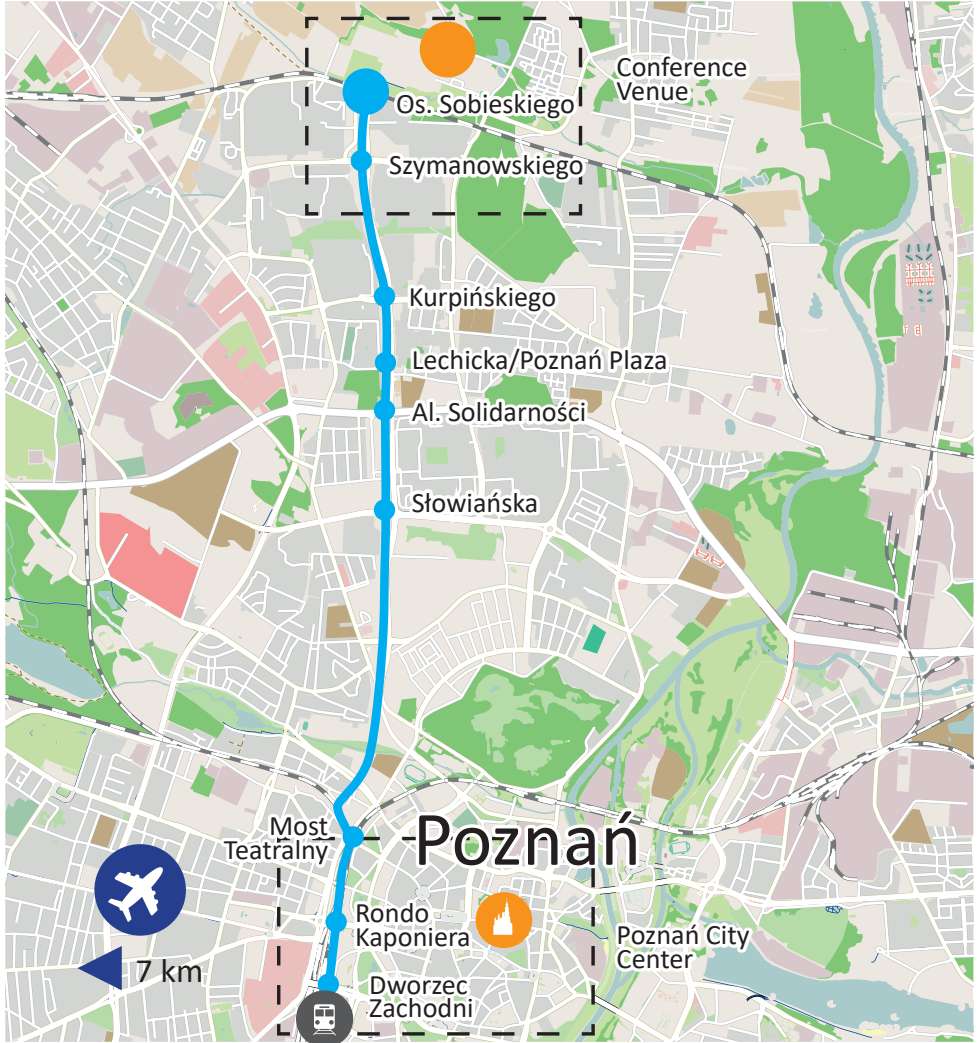
<https://www.poznan.pl/mim/main/taxi,poi,116,6142/>

You can also use Uber and Bolt services.

Currency:

The currency in Poland is Polish zloty (PLN), 1 zloty is worth approximately 0,22 euros.

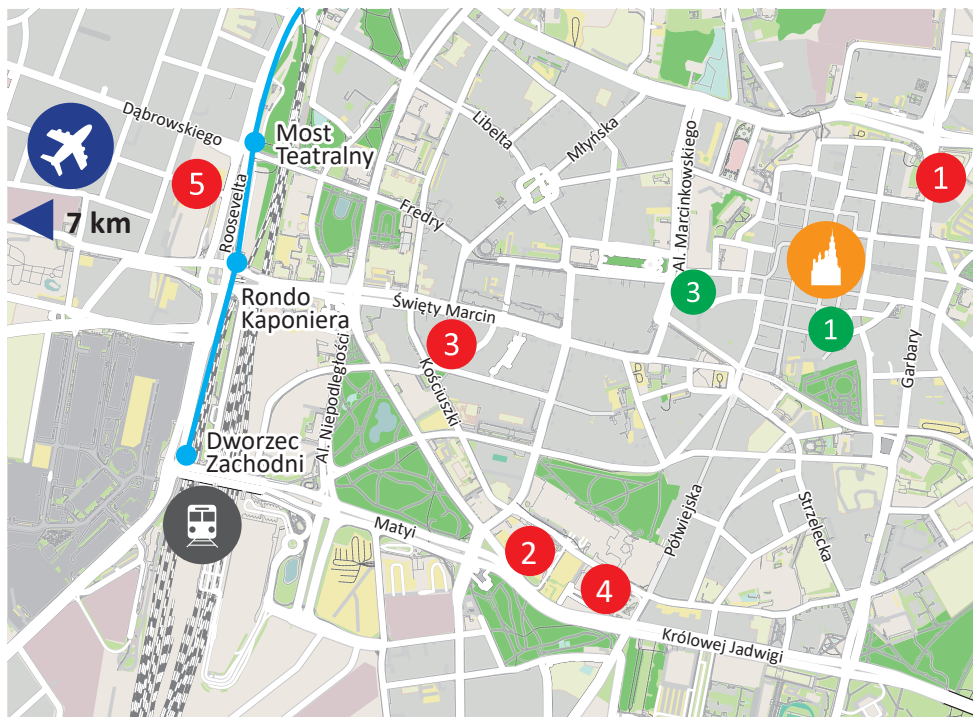
Poznań City Map



- Old Market
- "Poznań Główny" Railway Station
- Conference Venue
- Tram line
- Tram station



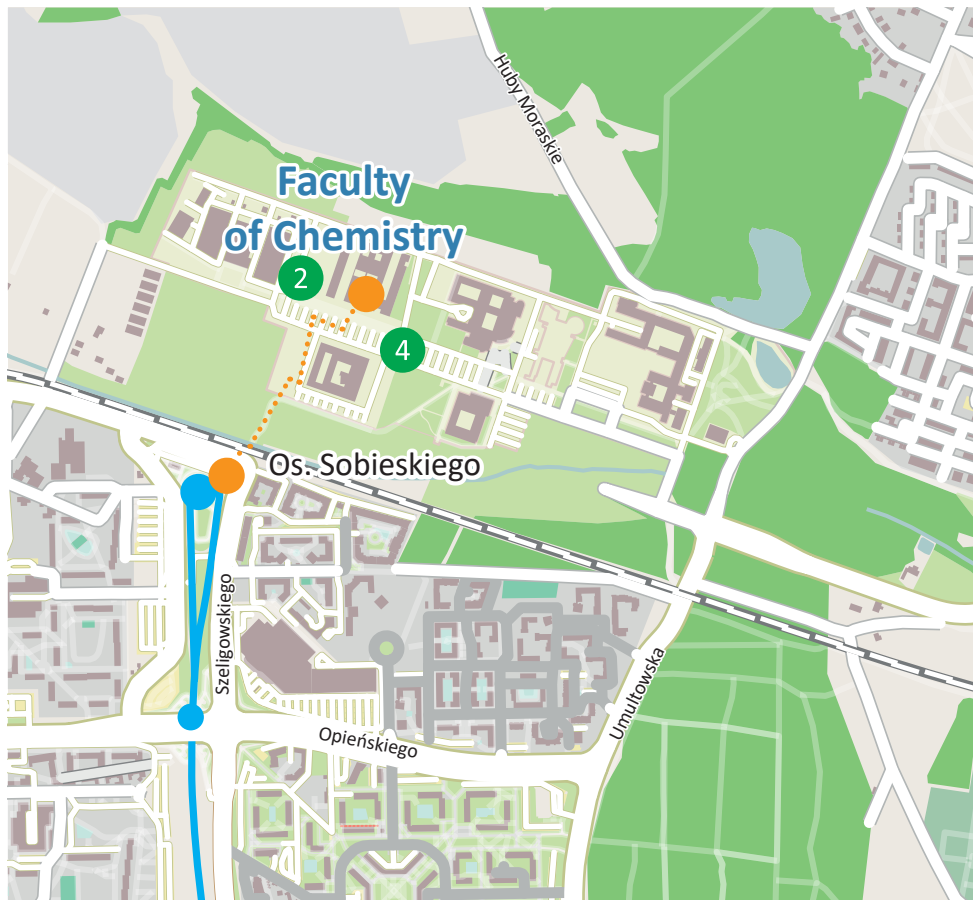
Poznań City Center








- 1 Park Inn by Radisson
- 2 Ibis Poznań Centrum
Novotel Poznań Centrum
- 3 NH Poznań
- 4 Andersia Hotel Poznań Centrum
- 5 Mercure Hotel Poznań Centrum
- 🚉 “Poznań Główny” Railway Station

- 🏠 Old Market Square
- 🚊 Tram line
- Tram station
- 1 Organ Concert in Fara Church
- 3 Restauracja BAZAR 1838
(Gala Dinner Venue)

Conference Venue



-  Barbecue Area
-  Bus departure for Poznań sightseeing
-  Route from the tram stop to the Conference Venue (c.a. 10 min. by foot)
-  Tram line
-  Tram station



Welcome Reception:

Date: Sunday, 18 June 2023

Venue: Faculty of Chemistry

Start: 19:00

The welcome evening will be graced by guitarist Matthew Kelly.

Matthew Kelly is an Irish guitarist, who has been stationed in Poznań for several years and plays eclectic music from the border of jazz and ambient, but also genres such as funk, soul, blues, salsa, swing and reggae.

If you are interested in the acoustic performance of the greatest hits of popular music, we invite you to the first meeting with other delegates, in a relaxed atmosphere with music and light refreshments.

The Welcome Reception is included in the registration fee. On Sunday, the registration will be open from 17:00 – 18:50.

Opening Ceremony:

The 7th Fluorine Days will officially start on Monday, 19 June 2023 at 9:00 at room 2.64 (Conference Room).

The Fluorine Days Chair and Conference Chairman will welcome all delegates.

Barbecue:

Date: Tuesday, 20 June 2023

Venue: Faculty of Chemistry

Start: 19:00

On the second day of the conference there will be a barbecue on the square next to the Collegium Chemicum building. The barbecue will be a wonderful opportunity to enjoy conversations and create long-lasting memories. Meat and beer will be provided. We are hoping that the aromas and general ambiance of the barbecue will provide you a pleasant experience outside of the conference room.

Gala Dinner:

Date: Wednesday, 21 June 2023

Venue: Restauracja BAZAR 1838, Paderewskiego 8, 61-770 Poznań

Start: 20:00

On Wednesday evening we will meet for a gala dinner in a historic Poznań restaurant. During dinner we will have the opportunity to try one of the best cuisines in Poland with the sounds of music.

Jan Adamczewski Trio is a Group of Poznań saxophonist Jan Adamczewski, pianist Jacek Sz waj and double bassist Damian Kostka. The brand focuses on it is own compositions and thrilling improvisations. During the concerts of Jan Adamczewski Trio you can hear well-known film works, standards of pop and jazz music in their own arrangements and, of course, compositions by artists.



Jan Adamczewski



The Poznań Fara Church

The first Poznań parish church, dedicated to St Mary Magdalene, might have been erected before the location of the city in 1253 in the vicinity of today's Kolegiacki Square. The only example of the mature Roman Baroque in the territories of the former Polish Commonwealth. The modern Fara is one of the most magnificent Baroque churches in Poland, designed after the Jesuit Il Gesu shrine in Rome. The façade closes off the horizon of the street, so that the tourist could not help focusing their eyes on it. The façade are crowned with two small towers known as „donkey ears”, from which four bells used to be hung. The central section holds the statue of st Ignatius Loyola of Spain, the founder and first General of the Jesuit order. The interior of the church absolutely fascinates with its space and sumptuousness of detail. The basilica was built on the rectangle plan, with the transept and emporas above side chapels. Its length is 55 metres, the width – 35 metres, the height of the main nave – 27 metres. In the central point of the ceiling – at the intersection of the main nave and the transept – is a pseudo-dome 1.5 metres deep, with a painting by Stanisław Wróblewski from 1913. Its interior with the lantern was achieved by painting techniques that give the illusion of half-spherical dome.

The organ of Friedrich Ladegast from 1876

The idea of constructing this ambitious instrument was quite an enterprise for Poznań which had no rooted tradition of playing the instrument. The challenge was taken up by Friedrich Ladegast (1818-1905), a German organ builder who together with his son Oskar owned in Weissenfels a workshop of European renown. In his lifetime he built over 150 inventoried pieces, of which only thirty odd have been preserved. The Poznań instrument has been preserved almost intact. It is a mechanical organ which has kept its original tone to this day. The costs amounted to the sum of 24.000 marks, half of which was donated by an anonymous benefactress from Poznań. The post of the first organist was given on September 12th 1876 to Bolesław Dembiński, a well known personage in Poznań's musical world. The instrument was played by such people like Feliks Nowowiejski, a prominent local composer, whose fate was to play the concert broadcast on September 1st 1939, the day the second World War began.

The technical data of the instrument: 7 metres high and 8.5 metres wide; 43 voices; three keyboards in the manual and one pedal keyboard, and over 2600 pipes (with 2579 of best English tin) with the longest ones 6 metres long and the shortest just a few centimetres. When the pipes were disassembled during the major restoration in 2000, it became possible to learn the composition of their alloy (which used to be a closely kept secret). The alloy was composed of tin and lead with the admixture of antimony, bismuth, silver and arsenic. The restoration work lasted for over a year and then came the time to tune the instrument, the three tuners took almost 10 weeks to do the job.

Reference: Patrycja Owczarzak „The First City Parish – a guide to the Poznań Fara” 2009.

All those who have expressed a desire to participate in the Organ Concert in the Fara Church are invited on Monday, June 19th, at 7:30 p.m. to the Kolegiacki Square next to the Clock of History (12-meter obelisk).

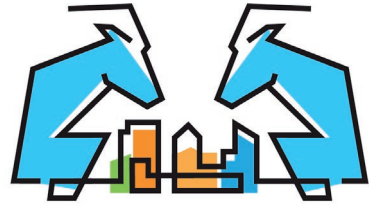
The whole event will take about 2h.

Guided Tour: the Roots of Poznań

The Cathedral Island in Poznań is a silent witness of a thousand-year-old history of the city and Poland itself. It is here that Mieszko I – the first Christian duke of Poland – had his stone palace built with a fortified settlement. In 968 the construction of the cathedral starts, making it the oldest cathedral in Poland. This is the main theme of the tour Roots of Poznań – a tour around the very beginnings of the Polish state.

Having explored the Cathedral Island, we will take you to the Old Market Square – the most representative part of the city. This is where city life boomed between 13th and 17th century. We will tell you what political message is written on the Renaissance Town Hall. You will learn why the executioner was the most hated person in the city. You will experience how the Jesuits used your senses to make you stay in their church.

Departure at 14:30 at the Faculty of Chemistry. The whole tour will take 3,5h.



City Event Poznań





Presentation upload room

If you are scheduled to make an Oral presentation at the conference, please visit Hall 2.64 on the 2nd level of the building to upload your files with the AV Technician. Please ensure that your files are uploaded the DAY PRIOR to your scheduled presentation date. There will be an AV Technician available on Sunday afternoon at the Registration desk between 17:00 and 18:50hrs for files to be uploaded and ready for Monday morning. In extraordinary cases, files should be uploaded no later than the coffee break before the session.

Preferred files are PowerPoint and PDF files. Alternatively, it is possible to use your own laptop with an HDMI connection. However, please try it first with the AV Technician, to make sure that everything is working fine.

Posters

Posters are to be displayed for the entire conference in the Poster Exhibition. Authors are kindly requested to set up their poster on the corresponding board with the supplied material on Tuesday, 20 June before 12.00. Poster boards have the same number as the titles in the Conference Programme.

Poster presenters are kindly requested to be present during the poster session. Poster boards are made from cork and their size is 980 mm x 1220 mm (width x height). The posters should not be laminated. Mounting materials will be provided on-site.

Legend to the scientific programme and posters

PL	Plenary Lecture
IL	Invited Lecture
L	Lecture
P	Poster

9:00 – 10:00 **Opening Ceremony**

Session 1

Chairs: Henryk Koroniak (Adam Mickiewicz University/Poland),
Tomasz Siodła (Adam Mickiewicz University/Poland)

10:00 - 11:00 **Plenary Lecture**
PL 1 Polyhedral Perfluorocarbon Nanodroplets that Phase-Shift
into Polyhedral Nanobubbles with Medical Potential
Marie-Pierre Krafft (University of Strasbourg, CNRS/France),
Hagop Abadian, Marc Schmutz, Delphine Felder-Flesh

11:00 - 11:30 **Coffee Break**

11:30 - 12:00 Easy Access of *N*-CF₃ Amine and Hydrazine Derivatives
IL 1 **Benoît Crousse** (University Paris Saclay, CNRS/France)

12:00 - 12:30 Selective Fluorination of Some Highly Functionalized Cycloalkenes
IL 2 **Loránd Kiss** (Research Centre for Natural Sciences/Hungary),
Melinda Nonn, Tamás Novák

12:30 - 13:00 Fluorine-containing 3rd-Generation Taxoids as Potent Anticancer Agents
IL 3 **Iwao Ojima** (Stony Brook University/USA)

13:00 - 14:00 **Lunch Break**

14:00 - 14:20 **Photo Group**

Session 2

Chairs: Norio Shibata (Nagoya Institute of Technology/Japan),
Anna Szwajca (Adam Mickiewicz University/Poland)

14:20 - 14:40 Design of Fluorinated, Liquid Crystal-inspired Monolayers
L 1 for Memory and Neuromorphic Computing
Peer Kirsch (Merck Electronics KGaA/Germany)



- 14:40 - 15:00
L 2 Mechanisms and Kinetics for the Decomposition Reaction of 1,3-Dioxo-2-difluoromethylene-4-trifluoromethoxy-5-difluoroammonium Acetate Dioxole
[Ivan Diego Wlassics](#) (Solvay Specialty Polymers Italy SpA/Italy),
Silvia Grossi, Domenico Giovinazzo, Stefano Millefanti
- 15:00 - 15:20
L 3 Establishing Fluorine-containing Amino Acids as an Orthogonal Tool in Peptide Self Assembly
[Thomas Hohmann](#) (Freie Universität Berlin/Germany),
Beate Kokschn
- 15:20 - 15:40
L 4 Improved Synthesis of 3'-Azido-2',3'-dideoxy-5-fluorouridine and its Highly Cytotoxic 1,2,3-Triazole Conjugates with Cinchona Alkaloids
[Karol Kacprzak](#) (Adam Mickiewicz University/Poland),
Lech Celewicz, Piotr Ruszkowski
- 15:40 - 16:00 [Coffee Break](#)
- 16:00 - 16:20
L 5 Amino Acids with Fluorinated Olefinic Motif – Building Blocks for Peptide's Isosteres
[Katarzyna Koroniak-Szejn](#) (Adam Mickiewicz University/Poland),
Katarzyna Salamon-Krokosz, Karolina Paszek, Henryk Koroniak
- 16:20 - 16:40
L 6 Plasmachemical Syntheses of Binary Hexafluorides
[Florian Kraus](#) (Philipps-Universität Marburg/Germany),
Björn Koch, Tobias Chemnitz, Winfried Petry
- 16:40 - 17:00
L 7 Beyond SuFEx - Synthesis and Transformation of Sulfonyl Fluorides and Related Systems
[Michał Barbasiewicz](#) (University of Warsaw/Poland)
- 17:00 - 17:20
L 8 Deoxyfluorination of Electron-deficient Phenols
[Jan Jelen](#) (Jožef Stefan Institute/Slovenia),
Gašper Tavčar

Session 3

- Chairs: Marie-Pierre Krafft (University of Strasbourg, CNRS/France),
Justyna Walkowiak-Kulikowska (Adam Mickiewicz University/Poland)
- 9:00 - 10:00 **Plenary Lecture**
PL 2 ¹⁹F-MRI Probes Based on Branched Fluorinated Residues
Pierangelo Metrangolo (Politecnico di Milano/Italy)
- 10:00 - 10:30 Fluorinated Organic Azides
IL 4 **Petr Beier** (Academy of Sciences of the Czech Republic/Czech Republic)
- 10:30 - 11:00 Advanced Fluorinated Building Blocks for Drug Discovery
IL 5 **Ivan S. Kondratov** (Enamine, National Academy of Sciences of Ukraine/
Ukraine),
Ivan G. Logvinenko, Anton A. Homon, Illiya O. Feskov,
Anton V. Chernykh, Oleksandr O. Grygorenko
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 12:00 Taming Fluoride in the Coordination Sphere of Au and Pt
IL 6 to Control Fluorination Steps
Thomas Braun (Humboldt University Berlin/Germany),
Simon Rachor, Stefan Sander
- 12:00 - 12:30 Novel Analytical Chemistry of Organofluorines in Complex Matrices
IL 7 and Overview with Environmental Case Studies
Jörg Feldmann (University of Graz/Austria),
Viktoria Müller, Eleonora Matic, Raquel Gonzalez de Vega, David Clases
- 12:30 - 13:00 Beyond Refrigerants – From ICI to Koura, an Industrial Perspective on
IL 8 Fluorine Chemistry
Claire N. Rees (Koura Global, Mexichem Fluor/United Kingdom),
Andrew. P. Sharratt
- 13:00 - 14:20 **Lunch Break**



Session 4

- Chairs: Rudi Feist (FLC Industries sp. z o.o./Poland),
Monika Bilska-Markowska (Adam Mickiewicz University/Poland)
- 14:20 - 14:40 Construction of Fluorine-containing Five-membered Heterocycles
L 9 via Defluorinative Annulation of Fluorinated Small Molecules
[Junji Ichikawa](#) (Sagami Chemical Research Institute/Japan)
- 14:40 - 15:00 Synthesis and Reactivity of Fluorinated β -Lactams
L 10 [Tomasz Cytlak](#) (Adam Mickiewicz University/Poland)
Monika Skibińska, Henryk Koroniak, Benoît Crousse
- 15:00 - 15:20 Fluorinated Aryl Boronates as Building Blocks in Organic Synthesis
L 11 [Udo Radius](#) (Julius-Maximilians University Würzburg/Germany)
- 15:20 - 15:40 Fluorinated Polymer Systems for the Transport of Active Substances
L 12 [Anna Szwejca](#) (Adam Mickiewicz University/Poland)
- 15:40 - 16:00 [Coffee Break](#)
- 16:00 - 16:20 Synthesis of Pentacoordinated Organofluorosilicate
L 13 and Germanate Salts
[Jan Gnidovec](#) (Jožef Stefan Institute/Slovenia),
Evelin Gruden, Melita Tramšek, Jernej Iskra, Jaroslav Kvíčala,
Gašper Tavčar
- 16:20 - 16:40 Fluorine-sensitized Molecular Probes for Substituent Effects
L 14 [Tomasz Siodła](#) (Adam Mickiewicz University/Poland),
Klaudia Anastaziak, Henryk Koroniak, Adam Sokół, Marcin Hoffmann
- 16:40 - 17:00 Diaminomethylation of Fluorine-containing Compounds
L 15 [Aleksandr Kostyuk](#) (National Academy of Sciences of Ukraine/Ukraine),
Anastasiia N. Hurieva, Serhii Zahorulko, Tetiana Shvydenko, Georgyi
Koidan
- 17:00 - 17:20 Metal-catalyzed Fluoroalkylation for Construction of Fluorinated
L 16 Heterocycle Library and Application for Drug Discovery
[Hong Liu](#) (Shanghai Institute of Materia Medica/China)

Session 5

- Chairs: Pierangelo Metrangolo (Politecnico di Milano/Italy),
Katarzyna Koroniak-Szejn (Adam Mickiewicz University/Poland)
- 9:00 - 10:00 **Plenary Lecture**
PL 3 Fluoride Extremists Separated by a Barrier
Wojciech Grochala (Center of New Technologies, University of Warsaw/
Poland),
Łukasz Wolański, José Lorenzana
- 10:00 - 10:30 DFT Calculations in the Study of Nucleophilic Fluorination Reagents.
IL 9 Successes and Controversies
Jaroslav Kvičala (University of Chemistry and Technology, Prague/Czech
Republic),
Adam Hroch, Michal Trojan, Šárka Bouzková, Vít Jeníček, Evelin Gruden,
Gašper Tavčar, Markéta Rybáčková
- 10:30 - 11:00 Synthesis and Reactivity of Halonium Ions
IL 10 **Sebastian Riedel** (Freie Universität Berlin/Germany)
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 12:00 Main Group Fluorine Chemistry
IL 11 **Herbert Walter Roesky** (University of Göttingen/Germany),
Zhi Yang
- 12:00 - 12:30 Metal Template Controlled Natural Product Site Selectivity
IL 12 **Tom Lectka** (Johns Hopkins University/USA)
- 12:30 - 13:00 Fluorochemicals with Important and Unique Applications in Electronics
IL 13 **Robert Syvret** (F2ChemTech, LLC/United Kingdom)
- 13:00 - 14:20 **Lunch Break**



Session 6

- Chairs: Gerd-Volker Röscenthaler (Constructor University Bremen/
formerly Jacobs University Bremen/Germany),
Marcin Hoffmann (Adam Mickiewicz University/Poland)
- 14:20 - 14:40 On the Click Reaction as an Efficient Method
L 17 for Preparing Amphiphilic Aromatic Fluorinated Polymers
[Justyna Walkowiak-Kulikowska](#) (Adam Mickiewicz University/Poland),
Katarzyna Żymańczyk, Anna Szwajca, Joanna Wolska
- 14:40 - 15:00 New Perspectives on the Coordination Chemistry of the Pentafluoro-
L 18 orthotellurate Ligand: The Case of Cobalt and Manganese
[Alberto Pérez-Bitrián](#) (Freie Universität Berlin/Germany),
Sebastian Riedel
- 15:00 - 15:20 The Synergistic Cytotoxic Effect of Aluminum and Fluoride
L 19 on Macrophage Cell Line THP-1
[Anja Pavlovič](#) (Jožef Stefan Institute/Slovenia),
Larisa Janžič, Lucija Levstek, Andreja Nataša Kopitar, Maja Ponikvar-Svet
- 15:20 - 15:40 Synthesis and Application of Modified BODIPY Derivatives
L 20 to Study Interaction with c-MYC DNA
[Magdalena Rapp](#) (Adam Mickiewicz University/Poland),
Jakub Żubertowski, Anna Dembska
- 15:40 - 16:00 [Coffee Break](#)
- 16:00 - 16:20 Reactivity of Organoaluminium Compounds
L 21 with Imidazolium-based Fluorinating Reagents
[Evelin Gruden](#) (Jožef Stefan Institute/Slovenia),
Melita Tramšek, Gašper Tavčar
- 16:20 - 16:40 Efficient Ca(II)-catalyzed Hydrosilylation of Olefins
L 22 through Inverse Piers-Oestreich Mechanism
[Przemysław Malinowski](#) (University of Warsaw/Poland)
- 16:40 - 17:00 Perfluoroalkyl and Perfluoroalkylsulfonyl Nitrogen Compounds:
L 23 Electrochemical Fluorination as Key Process
[Maik Finze](#) (University of Würzburg/Germany)
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Session 7

- Chairs: Wojciech Grochala (Center of New Technologies, University of Warsaw/Poland),
Magdalena Rapp (Adam Mickiewicz University/Poland)
- 9:00 - 10:00 **Plenary Lecture**
PL 4 Silyl Radical-mediated Cross-coupling Reactions of Organic Fluorides
Norio Shibata (Nagoya Institute of Technology/Japan)
- 10:00 - 10:30 **New Synthetic Route for a Perfluorinated Cyclic Sulfone and the Use of Perfluoro(2-propoxypropyl vinyl ether)**
IL 14 **Gerd-Volker Röschenthaler** (Constructor University Bremen/formerly Jacobs University Bremen/Germany),
Sergey N. Tverdomed, Markus E. Hirschberg, Romana Pajkert, Klaus Hintzer
- 10:30 - 11:00 **Enantioselective Synthesis of Trifluoromethylated Nitrogen-containing Compounds**
IL 15 **Takahiko Akiyama** (Gakushuin University/Japan)
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 12:00 **Light-mediated Perfluoroalkylations of Alkenes and Alkynes**
IL 16 **Jean-Marc Vincent** (CNRS - University of Bordeaux/France)
- 12:00 - 12:30 **Regioselectivity of Catalyst Free *N*-Arylation Reactions of Fluorobenzenes**
IL 17 **Frederik Diness** (Roskilde University/Denmark),
Sergey Nikitin, Morten P. Meldal, Jonas Hansen, Niklas H. Fischer
- 12:30 - 13:00 **Diversely Substituted Fluorinated Heterocycles Syntheses from Alkyne/Carbonyl Bifunctional Reagent**
IL 18 **Roman Dembinski** (Oakland University/USA)
- 13:00 - 13:30 **Compilation of the Industrial Usage of Fluorinated Products and Materials in the Past and Today**
IL 19 **Rudi H. Feist** (FLC Industries sp. z o.o./Poland)
- 13:30 - 13:40 **Closing Ceremony**
- 13:40 - 14:30 **Lunch Break**



Organic/Stereocontrolled Syntheses/Advanced Synthetic Methods

P1

Stereoselective Synthesis of Fluorinated Alkenylphosphonates Derived from Carbohydrates via the Horner-Wadsworth-Emmons Reaction

[Monika Bilaska-Markowska](#) (Adam Mickiewicz University/Poland),
Marcin Kaźmierczak, Wojciech Jankowski, Marcin Hoffmann

P2

Novel Deoxyfluorination Reagents

[Šárka Bouzková](#) (University of Chemistry and Technology, Prague/Czech Republic)
Markéta Rybáčková, Jaroslav Kvičala

P3

TBAT Analogues: Syntheses, Structures, Fluorinations, Role of Substrates, Solvents and Additives

[Adam Hroch](#) (University of Chemistry and Technology, Prague/Czech Republic),
Michal Trojan, Jaroslav Kvičala, Markéta Rybáčková

P4

A Novel Approach for Formylation of Halopyridines

[Anastasiia N. Hurieva](#) (National Academy of Sciences of Ukraine/Ukraine),
Aleksandr N. Kostyuk, Serhii Zahorulko, Tetiana A. Shvydenko, Georgyi N. Koidan

P5

One-pot Synthesis of 1-Aryl-3-CF₃-pyrazoles Using Nitrile Imines and Mercaptoacetaldehyde as a Surrogate of Acetylene

[Marcin Jasiński](#) (University of Łódź/Poland),
Kamil Świątek, Greta Utecht-Jarzyńska

P6

Synthesis and Cytotoxic Activity of Fluorinated Analogues of Lepidiline Alkaloids

[Marcin Jasiński](#) (University of Łódź/Poland),
Wiktor Poper, Mateusz Kowalczyk, Grzegorz Mlostoń

P7

Chiral 5-Alkyl[2.2]paracyclophane-4-amines as Fluorination Reagent Precursors

[Vít Jeníček](#) (University of Chemistry and Technology, Prague/Czech Republic),
Jaroslav Kvičala, Markéta Rybáčková

- P8
Synthesis of Bis(α,α -difluoro)ethers *via* Halo-perfluoroalkoxylation of *gem*-Difluoroalkenes
[Koki Kawai](#) (Nagoya Institute of Technology/Japan),
Naoyuki Hoshiya, Yoshimitsu Kato, Taichi Araki, Sota Ikawa, Yosuke Kishikawa,
Norio Shibata
- P9
Difluoromethylation of Alkenes with Difluoroacetic Anhydride:
Structure and Reactivity of Fluorinated Diacyl Peroxides and Radicals
[Shintaro Kawamura](#) (RIKEN Center for Sustainable Resource Science/Japan),
Takuma Tagami, Yusuke Mitani, Mikiko Sodeoka
- P10
Synthesis and Potential Applications of Fluorinated Analogues of Aminophosphonic Acids
[Marcin Kaźmierczak](#) (Adam Mickiewicz University/Poland),
Małgorzata Pawełczak, Henryk Koroniak
- P11
Stereocontrolled Route to Fluorine-containing Functionalized Azaheterocycles
and Amino Acid Derivatives
[Melinda Nonn](#) (Research Center for Natural Sciences, Hungarian Academy of Sciences/
Hungary),
Tamás Novák, Loránd Kiss
- P12
Synthesis and Reactivity of 2-Fluorinated Aziridine 2-Phosponates
from α,α -Halofluorinated β -Iminophosponates
[Mateusz Klarek](#) (Adam Mickiewicz University/Poland),
Tomasz Siodła, Jean-Luc Pirat, David Virieux, Magdalena Rapp
- P13
Trapping of In Situ-Generated Trifluoroacetonitrile Imines
with Electron-rich Dipolarophiles
[Anna Kowalczyk](#) (University of Łódź/Poland),
Greta Utecht-Jarzyńska, Marcin Jasiński



P14

The Bis(trifluoromethyl)amino Group $N(CF_3)_2$ Synthesis and Building Blocks

[Kristina A. M. Maibom](#) (University of Würzburg/Germany),

Leon N. Schneider, N.V. Ignat'ev, Min Shan, Jean Wakim, Klaus Urbahns, M. Finze

P15

Synthesis and Reactivity of Selected 2-Diazo-1,1-Difluoroalkyl Phosphonates:
Masked Carbenes

[Romana Pajkert](#) (Constructor University Bremen/Germany),

Ita Hajdin, Haibo Mei, Jianlin Han, Gerd-Volker Röschenthaler

P16

Acylation of Electron-rich Arenes with Unprotected Amino Acids

[Michał Piotrowicz](#) (University of Łódź/Poland),

Natasza Maślowska, Róża Jastrzębska, Anna Makal, Bogna Rudolf

P17

Amino Acids with Fluorovinyl Moiety: Synthesis and Mechanistic Studies

[Katarzyna Salamon-Krokosz](#) (Adam Mickiewicz University/Poland),

Katarzyna Koroniak-Szejn, Henryk Koroniak

P18

Copper-Mediated 1,2-Bis-perfluoroalkylations of Alkenes and Alkynes
with Perfluorocarboxylic Anhydrides

[Takuma Tagami](#) (RIKEN Center for Sustainable Resource Science/Japan),

Yuma Aoki, Shintaro Kawamura, Mikiko Sodeoka

P19

S_NAr Reactions of Phenol Derivatives with Fluorobenzenes

[Feng Wang](#) (Roskilde University/Denmark),

Frederik Diness

P20

The Use of Triflic Acid in the Synthesis of New Pyrene Fluorophores

[Anna Wrona-Piotrowicz](#) (University of Łódź/Poland),

Anna Makal, Janusz Zakrzewski

Inorganic/Bioinorganic Fluorine Chemistry

P21

Dehydrofluorination of Fluoroalkanes Catalyzed by Germylum Ions

[Julie Borel](#) (Humboldt University Berlin/Germany),

Thomas Braun

P22

Two Candidates as Potential Alternatives for SF₆ in Electric Devices

[Holger Pernice](#) (Freie Universität Berlin/Germany),

Paul Golz, Gesa H. Dreyhsig, Jan-Hendrik Nissen, Thomas Drews, Tobias Schlöder, Anja Wiesner, Helmut Beckers, Simon Steinhauer, Sebastian Hasenstab-Riedel

P23

A Case Study for Fe(CO)₅ as a Ligand to Divalent Species

[Vadim Zhuravlev](#) (University of Warsaw/Poland),

Przemysław J. Malinowski

Medicinal Science/Bioactive compounds

P24

New Biologically Active Fluorinated Phosphonate Analogues of Phenylglycine Obtained by Stereoselective Imine Phosphonylation

[Karolina Ciesielska](#) (Adam Mickiewicz University/Poland),

Donata Pluskota-Karwatka, Maciej Kubicki, Grzegorz Dutkiewicz, Marcin Hoffmann, Wojciech Jankowski, Dariusz Wawrzyniak

P25

Neural Networks in the Design of Fluoroorganic Molecules with Affinity to ROR γ Protein Domains

Damian Nowak, Rafał Bachorz,

[Marcin Hoffmann](#) (Adam Mickiewicz University/Poland)



P26

Synthesis of Trifluoromethylated Amino Acids Derivatives as Isosteres of Peptide Building Blocks

[Karolina Paszek](#) (Adam Mickiewicz University/Poland),
Katarzyna Koroniak-Szejn, Henryk Koroniak

P27

Fluorinated Methacrylate Nano-sized Particles for Biomedical Application

[Anna Sz wajca](#) (Adam Mickiewicz University/Poland),
Patrycja Wróbel, Wiktoria Kluba, Maciej Jarzębski

P28

Synthesis of Modified Monosaccharides with Highly Fluorinated Motifs as a Key Building Block for Hyaluronic Acid Subunits

[Joanna Tomaszewska](#) (Adam Mickiewicz University/Poland),
Katarzyna Koroniak-Szejn, Henryk Koroniak

P29

Fluorinated Derivatives of Curcumin

[Hanna Wójtowicz-Rajchel](#) (Adam Mickiewicz University/Poland),
Aleksandra Lar

P30

Synthesis and Biological Activity of Glycoconjugates of Mucochloric Acid

[Katarzyna Żurawska](#) (Silesian University of Technology/Poland),
Daria Burdalska, Magdalena Skonieczna, Anna Byczek-Wyrostek, Anahit Dawicka,
Anna Kasprzycka, Krzysztof Walczak

New polymers/Surfactants/Material Science

P31

Polyaniline Synthesis Using Hydrofluoric Acid as Doping Agent:
Comparative Evaluation with Polyaniline Doped with HCl and HBr
[Sebastian Golczak](#) (Adam Mickiewicz University/Poland)

P32

Rational Design of Polyfluorinated Amphiphilic Peptides: Evaluation of Self-assembly
[Maurizio Iannuzzi](#) (Freie Universität Berlin/Germany),
Suvrat Chowdhary, Boris Schade, Beate Kokschi

P33

Liquid Crystal Property and Gelation Ability of Cyclotriphosphazenes
with Perfluoroalkylethylthiophenyl Group
[Hiroaki Okamoto](#) (Yamaguchi University/Japan),
Takeru Sunada, Kenta Matsumoto, Tomohiro Yoshida, Kohei Arai, Yuki Morita

Industrial processes/Green side of Fluorine Chemistry

P34

The Role of Exposed Crystal Facets in F-doped TiO₂ Photocatalysts Synthesized
from TiOF₂ for Naproxen Removal and Toxicity Rate
[Marta Kowalkińska](#) (Gdańsk University of Technology/Poland),
Karol Sikora, Marcin Łapiński, Jakub Karczewski, Anna Zielińska-Jurek



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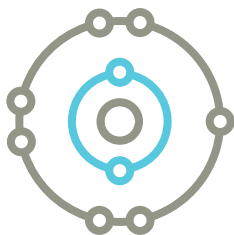
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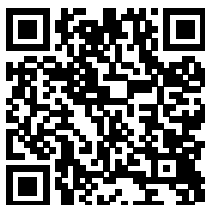
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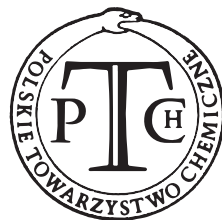


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