

5th DEA Club Meeting
13-15 April 2026
EUREKA Hotel, SOPOT
POLAND



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ABSTRACTS

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Welcome to DEA Club meeting 2026!

The 5th meeting of the DEA Club, that will take place in Sopot, Poland, 13-15.04.2026, continues the tradition of bringing together researchers working on dissociative electron attachment (DEA) and related electron–molecule interaction processes. The DEA Club provides an informal forum for researchers working in molecular physics, physical chemistry, and related fields to exchange recent experimental and theoretical results, discuss advances in the understanding of transient negative ions and fragmentation dynamics, and foster collaborations within the growing international community studying low-energy electron interactions with matter. The fifth edition of the meeting continues this tradition of open scientific discussion and close interaction between established scientists and early-career researchers.



Venue

The conference will take place at the [Eureka Hotel](#), a modern seaside hotel located in a quiet part of Sopot, just a short walk from the Baltic Sea and the city's coastal promenade. The venue combines comfortable accommodation with well-equipped conference facilities, providing an ideal environment for scientific discussions and networking. Its location between the beach and the green recreational



areas of southern Sopot allows participants to enjoy the characteristic atmosphere of this historic spa town while remaining within easy reach of the city center. The hotel's conference spaces offer a professional setting for lectures and meetings, while the nearby seaside surroundings create a pleasant and inspiring backdrop for the event.



The accommodation **is not** a part of the conference fee, but the hotel has been reserved for our participants until end of March 2026. If you would like to book your accommodation there, please contact them directly using the information below, using the password: DEAClub2026

EUREKA Hotel

ul. Emilii Plater 7/9/11

81-777 Sopot

+48 58 551 30 16

+48 517 788 577

biuro@eurekasopot.pl

Conference dinner



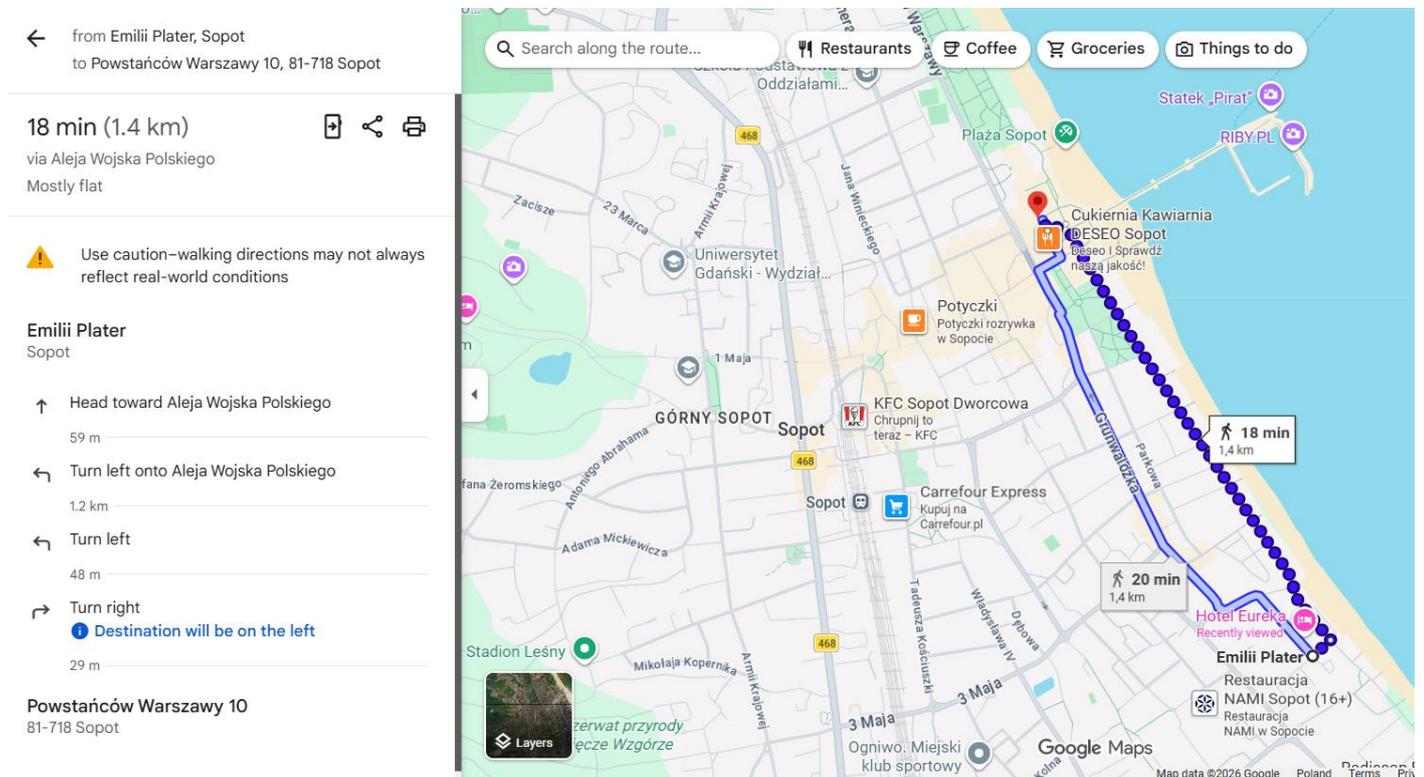
The conference dinner will take place on Monday evening at the **Polskie Smaki**, a restaurant known for its traditional Polish cuisine and welcoming atmosphere. The restaurant is located within a mild 20-minutes' walk from Eureka Hotel. This social event will provide conference participants with an opportunity to continue discussions in an informal setting while enjoying regional dishes inspired by Polish culinary traditions.

During the dinner, the **DEA Club Awards** will be presented, recognizing outstanding contributions to research on dissociative electron attachment and related electron–molecule interaction processes, honouring both a rising star in the field and a distinguished scientist whose work has provided a solid foundation for current research. The evening is intended both as a celebration of scientific achievements within the DEA community and as an opportunity to strengthen collaborations among the participants.

POLSKIE SMAKI (Sheraton Sopot)

ul. Powstańców Warszawy 10

81-718 Sopot



Conference trip

On Tuesday at 17:30, participants are invited to join a guided walking tour starting directly from the conference venue. This relaxed stroll through the charming seaside town of Sopot will provide an opportunity to discover some of the city’s most iconic landmarks while enjoying the Baltic coastal atmosphere. The route will lead through the historic spa district, along elegant streets and the famous wooden pier area, offering beautiful views of the sea and the surrounding architecture. The walk is designed as an informal social activity, allowing conference participants to continue discussions, network with colleagues, and experience the unique character of Sopot in the early evening. Comfortable walking shoes are recommended.

Topical Issues

We are pleased to inform you that two prominent journals,

- The European Physical Journal D and
- Frontiers in Physics,

have agreed to support our meeting. In addition to sponsoring the DEA Club Awards, both journals will prepare Topical Issues dedicated to the scientific contributions presented during the conference. These special issues will provide an opportunity for participants of various stages of their careers to publish their work and present the results discussed at the meeting to a broader international audience.

Further details regarding the publication process will be provided during the meeting in Sopot, and papers will be collected for submission to both journals after the conference.

Registration

To facilitate the smooth organisation of the meeting, participants are kindly asked to complete their registration by **17 March 2026**, when the registration period will officially close. This deadline will allow the organisers to finalize the conference programme, prepare the materials for participants, and make the necessary logistical arrangements for the venue and social events. We therefore encourage all prospective attendees to register in advance to ensure their participation in the meeting.

Contact information

For conference-related enquiries, please contact *Gosia Śmiątek-Telega* at:

deaclub2026.wimio@pg.edu.pl

For questions regarding the scientific programme, please contact *Janina Kopyra* at:

deaclubmeeting@gmail.com

Committees

Conference Chairs:

- Janina Kopyra
- Małgorzata Śmiątek-Telega

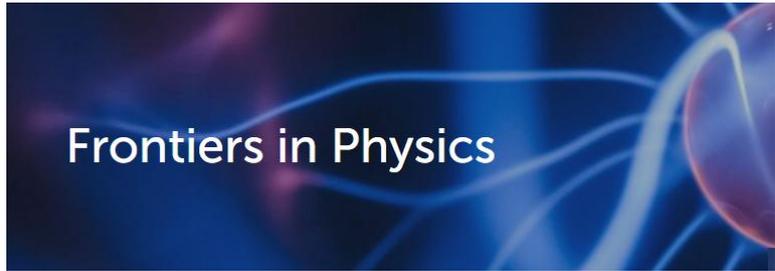
Local Organising Committee:

- Małgorzata Śmiątek-Telega
- Natalia Jakowska
- Mateusz Rawa
- Jacek Frost

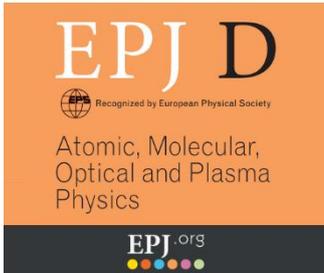
Scientific Advisory Board

- Janina Kopyra
- Małgorzata Śmiątek-Telega
- Nigel J. Mason
- Ilko Bald
- João Ameixa
- Pamir Nag
- Juraj Fedor

Sponsors



The European Physical Journal



CARBONIUM SUPPORTING CONFERENCES



FACULTY OF MECHANICAL AND OCEAN ENGINEERING

Talks and posters – general info

If you haven't done so, please complete the provided [abstract submission form](#) (applicable to both oral and poster presentations) and submit it to:

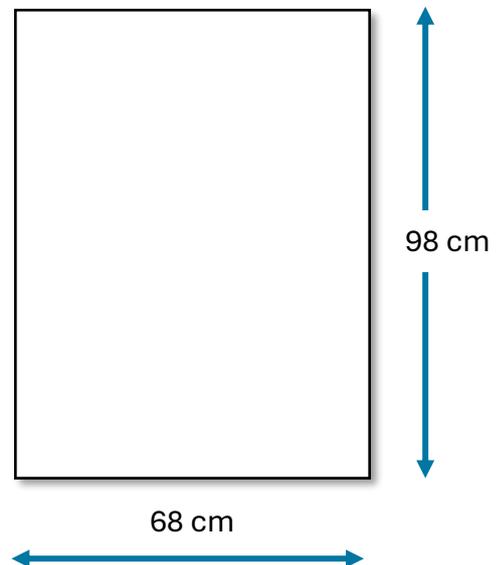
deaclub2026.wimio@pg.edu.pl

In the leading text of the message, please indicate whether your abstract concerns an **oral presentation** or a **poster**.

Each conference participant may present **only one poster**.

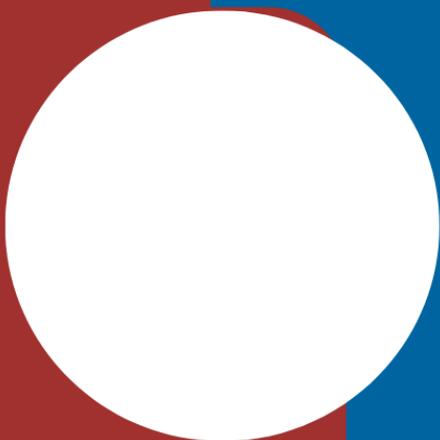
Poster stands will accept posters no larger than B1 (680 × 980 mm) in portrait orientation.

We only accept abstract submissions until 17th March 2026, EOD. After that time abstracts will not be included in the conference materials





PROGRAMME



Scientific Program – Overview

Monday 13 th		Tuesday 14 th		Wednesday 15 th	
08:00-09:00	Registration				
09:00-09:20	Opening			09:00-09:30	Talk
09:20-09:50	Talk			09:30-09:50	Talk
09:50-10:10	Talk	09:30-10:00	Talk	09:50-10:10	Talk
10:10-10:30	Talk	10:00-10:30	Talk	10:10-10:30	Talk
10:30-11:00	Coffee break	10:30-10:50	Talk	10:30-11:00	Coffee break
11:00-11:20	Talk	10:50-11:20	Coffee break	11:00-11:20	Talk
11:20-11:45	Talk	11:20-12:00	Talk	11:20-11:40	Talk
11:45-12:00	Talk	12:00-12:20	Talk	11:40-12:00	Talk
12:00-12:15	Talk	12:20-13:20	Lunch	12:00-12:15	Talk
12:15-13:20	Lunch	13:20-13:40	Talk	12:15-13:20	Lunch
13:20-13:50	Talk	13:40-14:00	Talk	13:20-13:40	Talk
13:50-14:10	Talk	14:00-14:15	Talk	13:40-14:00	Talk
14:10-14:30	Talk	14:15-14:30	Talk	14:00-14:15	Talk
14:30-15:00	Coffee break	14:30-14:40	Conference photo	14:15-14:30	Talk
15:00-15:30	Talk	14:40-16:00	Posters & coffee	14:30-15:00	Coffee break
15:30-15:50	Talk	16:00-16:30	Talk	15:00-15:20	Talk
15:50-16:05	Talk	16:30-16:45	Talk	15:20-15:40	Talk
16:05-16:20	Talk	16:45-17:00	Talk	15:40-16:00	Talk
16:20-16:40	Talk			16:00-16:15	Closing remarks
18:00	Conference dinner	17:30-19:00	Walking tour		

Scientific Program – Detailed

The details of the programme are still subject to moderate changes. We are currently finalizing several presentations and are in the process of confirming a few remaining contributions.

Sunday 12

17:00–18:30 Registration

Monday 13

08:00–09:00 Registration

09:00–09:20 Opening

09:20–09:50 Sylwia Ptasińska – University of Notre Dame

From molecule-specific to general principles: identifying commonalities in DEA fragmentation

09:50–10:10 Jonathan Tennyson – University College London

Dissociative attachment calculations involving heavy atoms.

10:10–10:30 Fabris Kossoski – Université de Toulouse

*On the different solutions of the complex absorbing potential method for resonances

10:30–11:00 Coffee break

11:00–11:20 Stephen Buckman – Australian National University

Positrons, Positronium, DEA?

11:20–11:45 Jan Franz – Gdańsk University of Technology

Positron Interactions with Atoms and Molecules

11:45–12:00 Nadzieja Śniegocka – Gdańsk University of Technology

Calculating ionisation cross-sections for positron and electron interactions with alkanes.

12:00–12:15 Marta Łabuda – Gdańsk University of Technology

Theoretical study of fragmentation dynamics in heterocyclic compounds

12:15–13:20 Lunch

13:20–13:50 Alicja Domaracka – Normandie Univ, ENSICAEN, UNICAEN, CEA, CNRS, CIMAP

Radiation-driven processes in ices: current status and the MIRRPLA perspective

13:50–14:10 Christopher R. Arumainayagam – Wellesley College

The Role of Low-Energy (< 20 eV) Electrons in Astrochemistry

14:10–14:30 TBC

14:30–15:00 Coffee break

15:00–15:30 Juraj Fedor – J. Heyrovský Institute of Physical Chemistry

Combining DEA-VMI and electron energy loss spectroscopy

15:30–15:50 TBC

15:50–16:05 Rodrigo Rodrigues – Universidade NOVA de Lisboa

Low-energy electron-induced fragmentation of HFO-1234yf

16:05–16:20 Gorachand Das – Tata Institute of Fundamental Research

Fingerprint of Dipole Supported and Valence Orbital Hybridization in Efficient Dissociative Electron Attachment Process

16:20–16:40 Martin Čížek – Charles University

Symmetry considerations and vibronic coupling of resonances in electron induced scattering processes.

18:00– Conference dinner

Tuesday 14

09:30–10:00 Janusz Rak – University of Gdańsk

Dissociative electron attachment to 8-(trifluoromethyl)thioadenine as a potential radiosensitizer

10:00–10:30 Nigel J. Mason – University of Kent

Exploring electron interactions the future of experiment and theory and the rise of the machines

10:30–10:50	TBC
10:50–11:20	Coffee break
11:20–12:00	Franco Gianturco – University of Innsbruck Carbon-chain anions in the interstellar medium: dynamics and formation processes
12:00–12:20	Ana I. Lozano – Consejo Superior de Investigaciones Científicas (CSIC) *Resonances in Total Electron Scattering Cross Sections: Experimental Insights
12:20–13:20	Lunch
13:20–13:40	Paweł Możejko – Gdańsk University of Technology * Is it still worth to measure total electron scattering cross sections?
13:40–14:00	Paweł Syty – Gdańsk University of Technology Electron–atom scattering lengths and cross sections determination using a new tool, GRASPC: Results for noble gases, strontium, and lanthanides
14:00–14:15	Sudhanshu Arya – Indian Institute of Technology Theoretical investigation of electron scattering and dissociative electron attachment to ethanethiol
14:15–14:30	Justyna Jankowska – Gdańsk University of Technology Electron-induced dissociative ionization of saturated heterocyclic molecules studied by electron-collision spectroscopy with quadrupole mass spectrometric detection
14:30–14:40	Conference photo
14:40–16:00	Posters & coffee
16:00–16:30	Stefan Denifl – University of Innsbruck Electron induced dynamics in isolated and microhydrated radiosensitizers
16:30–16:45	Gabriel Schöpfer – University of Innsbruck Dissociative Electron Attachment to 4-Bromo-2H-1,2,3-Triazole
16:45–17:00	Michael Gatt – University of Innsbruck Computational Methods to Understand Processes Upon Electron Attachment in Dry and Hydrated Molecular Clusters
17:30–19:00	Conference excursion

Wednesday 15

09:00–09:30	Petra Swiderek – University of Bremen Electron-induced and thermal surface reactions of iron precursors for FEBID studied by infrared spectroscopy
09:30–09:50	Oddur Ingólfsson – Science Institute of the University of Iceland Dissociative electron attachment to pentafluorophenyl triflate, a potential acid generator in chemically amplified resists for extreme ultraviolet lithography
09:50–10:10	Lionel Amiaud – Université Paris-Saclay Quantifying the stimulated desorption
10:10–10:30	TBC
10:30–11:00	Coffee break
11:00–11:20	Samuel Eden – The Open University Electron interactions with benzonitrile: reaction pathways in isolated molecules and clusters
11:20–11:40	Michal Farnik – J. Heyrovský Institute of Physical Chemistry Electron attachment to clusters containing polycyclic aromatic hydrocarbons
11:40–12:00	Thomas Jagau - KU Leuven Photodetachment spectra of cluster anions and insights gained about virtual states
12:00–12:15	Bartosz Majewski – Gdańsk University of Technology Hybrid Deep Learning Model for EI-MS Spectra Prediction
12:15–13:20	Lunch
13:20–13:40	Leo Sala – Heyrovsky Institute of the Czech Academy of Sciences DNA origami under the electron beam: mapping DNA damage across energy scales
13:40–14:00	Jan Verlet – Durham University *Electron capture in the presence of water

14:00–14:15	TBC
14:15–14:30	Jhenifer Martins Hummel Fófano – Universidade Federal do Paraná <i>Low-energy electron scattering from benzisoxazole molecules</i>
14:30–15:00	Coffee break
15:00–15:20	Štefan Matejčík – Comenius University in Bratislava <i>Emission of Small Carbon-Containing Molecules Induced by Electron Impact</i>
15:20–15:40	Anirban Paul – Heyrovsky Institute of Physical Chemistry <i>Dissociative electron attachment to esters</i>
15:40–16:00	Pamir Nag – Heyrovsky Institute of Physical Chemistry <i>Detection of solvated electrons produced due to electron collision with liquid micro-jets via fluorescence spectroscopy</i>
16:00–16:15	Closing remarks

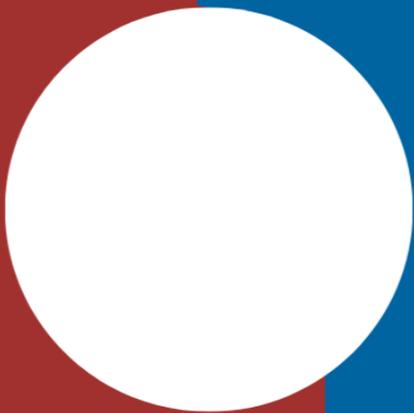
TALKS

Oral presentations

**** This space is currently occupied by a temporary abstract resonance. Our calculations indicate that a stable abstract should attach here, but so far the process has not yet completed. We therefore encourage the authors to promote the transition from a short-lived excited state to a bound state in our inbox by sending the abstract as soon as possible.***

Otherwise, the abstract may undergo autodetachment and escape the conference program entirely.

POSTERS



Poster presentations

**** At the moment, this page contains a quantum object known as Schrödinger's abstract — it both exists and does not exist until it is observed in our inbox. If your contribution is currently in this superposition state, we kindly encourage you to collapse the wavefunction by sending the abstract to us as soon as possible.***

Failure to do so may lead to spontaneous decoherence of the conference program and mild panic in the organizing committee.