



**27<sup>th</sup>** International Conference on

**APPLIED PHYSICS  
OF CONDENSED MATTER  
(APCOM 2022)**

**Accompanying events:**

*Current Successes in the Photoemission and Electron  
Microscopy (5<sup>th</sup> International Workshop)*

*Advances in Nuclear Engineering (4<sup>th</sup> International  
Conference)*

**June 22 - 24, 2022**

**Hotel Patria, Štrbské Pleso,  
High Tatras, Slovak Republic**

**Organized by**

- Institute of Nuclear and Physical Engineering, Faculty of Electrical Engineering and Information Technology, Slovak University of Technology (STU), Bratislava
- Alumni Club of the Faculty of Electrical Engineering and Information Technology STU, Bratislava
- Institute of Aurel Stodola in Liptovský Mikuláš, Faculty of Electrical Engineering and Information Technology, University of Žilina
- Institute of Physics, Slovak Academy of Sciences
- Slovak Physical Society

**FIRST ANNOUNCEMENT**

**INTERNATIONAL PROGRAM COMMITTEE**

**J. Sitek**, FEEIT STU Bratislava, SK – chairman  
J. Cirák, FEEIT STU Bratislava, SK  
M. Flaska, PSU Pennsylvania, USA  
K. Hricovini, CPU Cergy-Pontoise, FR  
E. Hristoforou, NTU Athens, GR  
J. Kohout, CU Prague, CZ  
J. Krempasky, PSI Villigen, CH  
V. Lisý, FEEIT TU Košice, SK  
J. Minar, UWB Plzeň, CZ  
J. Müllerová, FEEIT Žilina University, SK  
D. Seyringer, FHV Dornbirn, AT  
O. Schneeweiss, IPM AS, Brno, CZ  
V. E. Sidorov, USPU, RU  
V. A. Skuratov, JINR, RU  
B. Sopko, CUT Prague, CZ  
P. Švec, IP SAS Bratislava, SK  
R. Szewczyk, WUT Warsaw, PL  
U. Topal, Tubitak-UME, TR

**LOCAL ORGANIZING COMMITTEE**

**J. Vajda**, FEEIT STU Bratislava, SK - chairman  
Email: [jan.vajda@stuba.sk](mailto:jan.vajda@stuba.sk)  
I. Jamnický, FEEIT Žilina University, SK  
P. Novák, FEEIT STU Bratislava

**CONFERENCE ADMINISTRATOR**

Patrik Novák

Institute of Nuclear and Physical Engineering  
Faculty of Electrical Engineering and Information  
Technology, STU Bratislava  
Ilkovičova 3  
812 19 Bratislava, Slovak Republic

Tel.: +421-2-602 91 714

Fax: +421-2-654 20 415

Email: [apcom@elf.stuba.sk](mailto:apcom@elf.stuba.sk)

Web: <http://kf.elf.stuba.sk/~apcom/>

**IMPORTANT DATES & DEADLINES**

Application submission:	<b>January 31</b>
Second announcement and application acceptance:	<b>February 15</b>
Papers submission:	<b>April 30</b>
Registration fee payment:	<b>April 30</b>
Accommodation/board ordering:	<b>May 15</b>
Comments of reviewers:	<b>May 15</b>
Submission of corrected papers:	<b>May 20</b>
Opening ceremony:	<b>June 22</b>



The International Conference on  
**APPLIED PHYSICS  
OF CONDENSED  
MATTER (APCOM  
2022)**

is the 27<sup>th</sup> international conference in the series of events started in the year 1995 with the workshop "Solid State Physics and Radioactive Irradiation". Next three years the name of this workshop was „Effect of Non-Standard External Factors on Physical Properties of Solids“. Since 1999, its name was transformed to current name "Applied Physics of Condensed Matter" (APCOM). APCOM provides an unique opportunity for experts in the field of applied physical research of condensed matter to come together and share their visions of future development and in the area of application of devices for example in electrical and nuclear power engineering, electronic and optical communication etc. The main focus of the conference is on presentation of both theoretical and experimental results, partly also of both computer simulation results and specific measurements techniques in the investigation of physical properties and structure of bulk solids and structures, thin solid films, ultrathin organic polymer films, micro- and nanostructures *etc.*, exposed to the influence of the wide-range specific external factors (electrical, magnetic, thermal, high-frequency electromagnetic waves, optical and ionized radiation, ion and elementary particles beams and so on).

**The main content areas** are the following:

1. New materials and structures (incl. nanostructures and thin films), their analysis and specific applications
2. Physical properties and structural aspects of solid materials and their influencing
3. Optical phenomena in materials, photovoltaics and photonics, new principles in sensors and detection methods, applied optics and optical communications

4. Nuclear science and technology (with emphasis on the influence of irradiation on physical properties of materials and radiation detection)
5. Computational physics and theory of physical properties of matter
6. Biophysics and interdisciplinary physics of condensed matter.
7. Current Successes in the Photoemission and Electron Microscopy (*co-organised by R. Medlín, J. Minár, D. Lávička, UWB Plzeň, CZ and J. Krempaský, PSI Villigen, CH*)

**Conference layout:** June 22–24, 2022. All participants are encouraged to register on Wednesday, June 22. The registration desk will be opened from 11:00 CET. The opening of the conference will be on Wednesday, June 22, at 15:30 CET followed immediately by the introductory session. The programme will be closed on Friday, June 24, at 11:30 CET, lunch at 11:30 CET. Registration details will be available in the second announcement.

**Venue:** Hotel Patria is located as a dominant building near the shore of the high-mountain tarn Štrbské pleso (1355 metres above sea-level) at the mouth of Mlynická Valley, sensitively incorporated into the High Tatras landscape. It is named after the nearby peak Patria (in Latin: "fatherland"), 2203 metres high. For details see <http://www.hotelpatria.sk>.

**Language:** The official language of all presentations is English.

**Conference Publication:** The complete set of abstracts will be published on the conference website. All accepted full-text papers (**delivered strictly before April 30, 2022, in English only**) will be published in the online form in peer-reviewed Conference Proceedings through **AIP Publishing (American Institute of Physics)**, indexed in leading databases, such as Conference Proceedings Citation Index (part of Web of Sciences), Scopus (Elsevier), Inspec etc. The online version of the Conference Proceedings will be published later, but surely in year 2022. Details for publishing will be available in the second announcement.

**Form of presentation:** Introductory lectures (20 min.), contributed (15 min.) oral presentations including discussion and also poster sessions are planned.

**Technical equipment:** The PC–data/video projector will be available for oral presentation. Details of the poster sessions will be announced later.

**Conference fee:** The conference fee consists of the registration fee, two-night accommodation (double and a very limited number of single rooms are available), entrance to hotel wellness and full board fee.

Registration fee	270 EUR*
Accommodation/full board fee	130 EUR**
<b>Total</b>	<b>400 EUR***</b>

\* Registration fee for PhD.students 245 €, total 375 € (in double room)

\*\* For single room extra fee 100 €, total 500 €

\*\*\* For accompanying persons total fee 250 €

Registration fee includes conference materials, overhead costs, admission to all conference sessions and coffee-break refreshments, welcome party, friendship party and social programme.

**Financial details:** The conference fee should be paid before **April 30, 2022** by bank transfer, only exceptionally at the registration desk (must be consulted with the organizers). **For payment realised after April 30 the registration fee will be increased by 50 EUR.** Bank account number will be posted in the second announcement as well as on the web site. Each participant obtains an invoice at the registration desk.

**Application:** To participate in the conference, please fill in the application form (you can find it on <http://kf.elf.stuba.sk/~apcom/>) and send it directly to the conference administrator or to the chairman of the organizing committee before **January 31, 2022** by e-mail. The application acceptance will be confirmed in the second announcement. As Hotel Patria reserved capacity is limited at present, the latest registration may not be accepted!

**Important:** In an application form it is unconditionally necessary to specify **in which main content area a contribution should be included**. The organizers can additionally require a short annotation of a contribution. The delayed contributions (after April 30) cannot be included in the Conference Proceedings.