

# Radiation Protection for Everyone



## Bring IRPA 2022 to Budapest

**VOTE FOR US!**

### WHY THE HUNGARIAN ASSOCIATION?

#### We have experience with IRPA Congresses...

The Hungarian IRPA association, the Health Physics Section of the Roland Eötvös Physical Society (ELFT) was founded in 1962.

From the first IRPA Congress which was held in Rome in 1966, our society has been continuously represented by national delegates at these quadrennial meetings.

The 2<sup>nd</sup> European Congress on Radiation Protection was the first entirely international meeting, organized with great success by our Section in Budapest in 1972.

Almost 30 years later, in August 1999 Budapest hosted an IRPA meeting again: the IRPA Regional Congress on Radiation Protection in Central Europe with 200 participants from 27 countries.



#### Leó Szilárd

Szilard was the first to have the thought of the nuclear chain reaction in 1933, patented the idea of a nuclear reactor with Enrico Fermi in 1934.



#### György Hevesy

Hevesy published the first study on the use of the naturally radioactive <sup>212</sup>Pb as radioactive tracer in plants.



#### Zoltán Bay

Bay was a Hungarian physicist, professor and engineer. He was the leader of the second group to observe radar echoes from the Moon.



### WE ARE INVOLVED IN THE FOLLOWING TOPICS:

- Dosimetry
- Nuclear safety analysis
- Environmental impact assessment
- Radiation chemistry
- Radioactive waste management
- Decommissioning
- Low dose risk calculation
- Radon measurement
- Atmospheric dispersion calculations
- Estimations and prediction of public dose rates
- Activity dispersion calculations for surface waters

- Food-chain modelling
- Emergency response
- Monte Carlo methods
- Medical physics
- Radiation protection of radiotherapy
- In-situ measurement
- Equipment development for nuclear power applications
- Chemical decontamination techniques
- Radiological assessment of drinking- mineral- and spring-water
- Biological sample analysis
- Supervision of nuclear facilities security





## WHY BUDAPEST?

- Because it is beautiful
- It is a place where tradition meets innovation
- Very compact
- Cost effective
- Significant Hungarian interest
- Building procedure of two new nuclear reactors at Paks has been started



## EVENT VENUE

### Budapest Congress Centre (BCC)

The BCC provides the largest, most modern congress and meeting facility in Hungary. It is located on the Buda side, just behind Gellért Hill, surrounded by picturesque chestnut trees and is close to the city center and the historic Castle District of Buda.



## CULTURAL AND SOCIAL EVENTS

### Opera House – Behind-the-scenes Visit

Take a behind-the-scenes tour with us throughout the building, sneak into the costumes' room, enjoy a mini opera performance and chill out in the Opera Cafe with a nice cup of coffee and a delicious dessert.

### Wine Tasting

Meet and taste the best of Hungary's wines produced by the top local winemakers or take a cosy trip to chill out at Buda's most relaxing winery and taste their top wine selection served with home-made Hungarian bakery and cheese plate.

## ORGANIZING COMMITTEE

### Leader:

János Petrányi, Gamma Technical Corporation

### Team members:

Ádám Bodó, Gamma Technical Corporation  
Tibor Bujtás, MVM Paks Nuclear Power Plant  
Csilla Csöme, HAS - Centre for Energy Research  
Richárd Elek, National Public Health Institute  
Nándor Kaposy, HAS - Centre for Energy Research  
Anna Pántya, HAS - Centre for Energy Research  
Gabriella Taba, Semmelweis University  
Árpád Vincze, Hungarian Atomic Energy Authority

## OUR PROGRAMS

### Regular

Plenary and parallel sessions

Refreshing courses

Clever ideas in practice

Competition for ideas or good practice which makes our work easier and safer

Young scientist challenge

Paper publication opportunity

### Technical visits

**Energy Research:** Research Reactor

HAS - Centre for Energy Research

Extreme Light Infrastructure (ELI)

**Life Science:** Semmelweis University Health Care Institutions

**Regulatory:** Hungarian Atomic Energy Authority, National Public Health Institute

**Education:** Training Reactor  
Budapest University of Technology and Economics

**Power plant:** MVM Paks Nuclear Power Plant

**Industry:** Nuclear measuring instrument production  
Gamma Technical Co.

**Waste management:** Public Limited Company for Radioactive Waste Management (PURAM)



ELFTSV

[elftsv.hu](http://elftsv.hu)