

# Prospects for life science oriented research at PoIFEL

workshop

Instytut Biologii Doświadczalnej  
im. M. Nenckiego PAN  
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[www.ncbj.gov.pl/polfel](http://www.ncbj.gov.pl/polfel)

Free electron lasers, of which several dozen have been created in the world, allow to study materials, chemical molecules, biological molecules and the dynamics of the processes in which they participate. The precision of such tests is not available by other methods. The Polish free electron laser PoIFEL is currently being built at NCBJ in Świerk. In about three years it will be made available to scientists, including biologists and biophysicists from various research institutions in Poland and Europe.

## 2020 PoIFEL WORKSHOP AGENDA

- 9:00 – 9:30 *Registration*  
9:30 – 10:00 *PoIFEL – Free Electron Laser – General overview of the project*  
prof. dr. hab. Krzysztof Kurek, Director General of the National Centre for Nuclear Research, Otwock-Świerk  
10:00 – 10:30 *Applications of Synchrotron Radiation in experiments with biological samples*  
dr. hab. Jerzy Pełka, Institute of Physics PAS, Warsaw  
10:30 – 10:50 *PoIFEL laser – principles and parameters of the light source*  
dr. Robert Nietubyć, National Centre for Nuclear Research,  
10:50 – 11:00 *Coffe Break*  
11:00 – 11:20 *PoIFEL Beamlines and Experimental Stations*  
dr. Karolina Szamota-Leandersson, National Centre for Nuclear Research  
11:20 – 11:40 *Application of impulse laser sources to chemical and biological measurements in the PoIFEL project*  
dr. Paweł Czuma, National Centre for Nuclear Research  
11:40 – 12:10 *Practical example of PoIFEL laser application to life science: Stopped-Flow technique*  
mgr. Radosław Kotuniak, Institute of Biochemistry and Biophysics, PAS, Warsaw  
12:10 – 12:30 *Coffe break*  
12:30 – 13:20 *Examples of biology related research in practice of FELIX Free Electron Laser,*  
dr. Jonathan Martens, Radboud University, FELIX Laboratory Nijmegen, The Netherlands.  
13:20 – 13:40 *Users Consortia as a formal vehicle for long term research programme – a lesson from E-XFEL*  
dr. Paweł Krawczyk, National Centre for Nuclear Research .  
13:40 – *Discussion*

*Titles of the talks to be confirmed.*

### Participation is free.

More information and the registration form are available at  
<https://webmaster.ncbj.gov.pl/events/2020-polfel-workshop>

**PoIFEL website:** [www.ncbj.gov.pl/polfel](http://www.ncbj.gov.pl/polfel)

