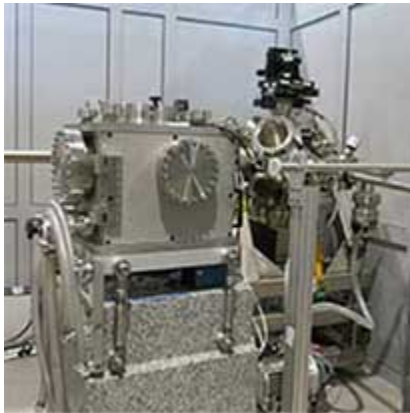


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SOLARIS SYNCHROTRON

Winter 2021



STXM microscope in 7th call for proposals

For the seventh time in our history, we are opening a call for proposals. We are happy to announce that for the first time the STXM (Scanning Transmission X-ray Microscope) microscope will be available for external users. Scanning transmission x-ray microscopy (STXM) combines x-ray microscopy and near edge x-ray absorption fine structure spectroscopy (NEXAFS). This combination provides spatially resolved bonding and oxidation state information. For more information please take a look at our webpage

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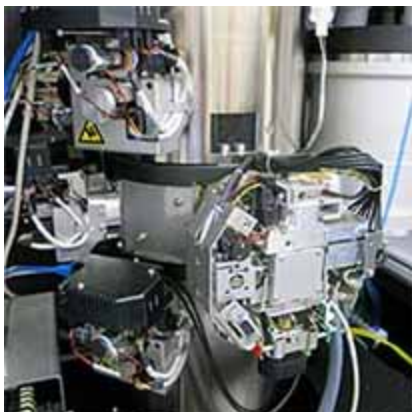
Expansion of the SOLARIS facility is on its way

On February 4th, 2021, the President of the City of Kraków issued Building Permit for the strategic project "Reconstruction and Expansion of the Solaris NSRC Centre".

The area of the synchrotron will be significantly increased, with new beamlines located in the new section, as it was impossible to locate them in the currently available space. These will include SOLCRYSS beamline for structural research. SOLCRYSS beamline end stations will enable analyses of the structure of proteins, viruses, nucleic acids, and polymers.

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Cryo-electron microscope Glacios is already a part of the SOLARIS Centre

On 13th January 2021, the representatives of SOLARIS Centre and LABSOFT company officially signed in the handover protocol of Glacios cryo-electron microscope. It will extend the offer of the National Cryo-EM Centre.

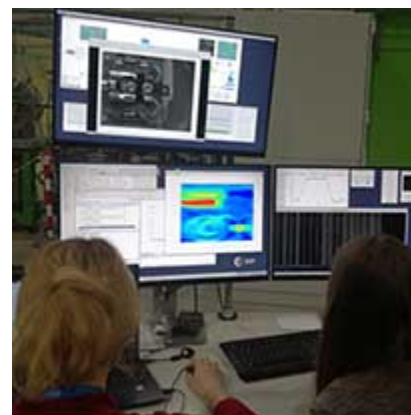
Along with this fact, our Centre becomes the only one in Poland, which provides two complementary cryo-electron microscope with the highest technical parameters.

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Researchers to check how and when cancer begins in cells

Scientists at the SOLARIS National Synchrotron Radiation Centre in Kraków want to check how cancer begins to develop in cells by testing tissues from head and neck tumours. Researchers from the Medical University of Silesia, the University of Silesia in Katowice and the Jagiellonian University, are using synchrotron radiation to carry out pioneering research on tissues.

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