

Report on the outcomes of a Short-Term Scientific Mission¹

Action number:

Grantee name:

Details of the STSM

Title: Development of a new photoelectron spectrometer - final relocation

Start and end date: 10/07/2024 to 18/07/2024

Description of the work carried out during the STSM

Description of the activities carried out during the STSM. Any deviations from the initial working plan shall also be described in this section.

(max. 500 words)

Day 1: Preparation and Coordination - The visit started with the arrival at the host institution. Our primary focus for the day was to review all components of the photoelectron spectrometer that were identified during previous visit. An inventory check confirmed that all parts were accounted for, ensuring no critical pieces were missing. Coordination meeting with the lab manager was essential in securing the packing materials. We also verified that all safety protocols and compliance requirements were in place, laying the groundwork for a smooth and secure operation.

Days 2-4: Securing Components - The next two days were dedicated to the careful disassembly of any remaining assembled parts of the spectrometer. Each component, especially the delicate ones, was packed using appropriate cushioning and protective materials to prevent any damage during transit. A lot of effort went into securing all the elements in the electronics rack. Clear labelling of each component was carried out to facilitate easy reassembly upon arrival at the destination. This phase was critical to ensure that all parts remained intact and could be identified effortlessly.

¹ This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the GH for payment of the Grant.

Days 5-7: Packing for Shipment - With all components securely packed, the focus shifted to organizing them systematically. The goal was to maximize space efficiency and ensure stability during transport. We employed reinforced pallets and containers, ensuring all components were tightly secured to prevent movement. A final inspection was conducted to guarantee the safety of all parts and the security of all packaging. This step was vital in mitigating any risks associated with transportation.

Day 8: Documentation and Handover - A detailed inventory list of packed components, was created in order to prepare all necessary shipping. Coordination with the logistics team was essential to schedule the pickup and shipment of the packed components. This phase ensured that all procedural and regulatory requirements were met, facilitating a smooth handover. The final day also involved a comprehensive review of the entire packing and preparation process. A final meeting with the host institution was conducted to review the outcomes and discuss any follow-up actions required.

This visit was a testament to meticulous planning and execution, ensuring that the photoelectron spectrometer was prepared and shipped with utmost care and precision. The collaborative efforts of the applicant and the host institution were pivotal in achieving a successful outcome.

Description of the STSM main achievements and planned follow-up activities

Description and assessment of whether the STSM achieved its planned goals and expected outcomes, including specific contribution to Action objective and deliverables, or publications resulting from the STSM. Agreed plans for future follow-up collaborations shall also be described in this section.

(max. 500 words)

Main Achievements

The Short-Term Scientific Mission (STSM) titled "Development of a New Photoelectron Spectrometer - Final Relocation" has successfully achieved its planned goals and expected outcomes. This STSM, was a critical follow-up to the previous year's mission. The primary objective was to secure, pack, and prepare the shipment of the photoelectron spectrometer components from The Open University, UK, to Gdańsk University of Technology, Poland.

Achievement Highlights:

1. Successful Disassembly and Packing
2. Systematic Organization and Shipment Preparation
3. Comprehensive Documentation
4. Coordination and Handover

Contribution to Action Objectives and Deliverables

The STSM has made significant contributions to the Action CA20129 objectives, particularly in research coordination and capacity building within the project.

The relocation of the spectrometer to Gdańsk University of Technology enables in-depth investigations into the electronic structure, chemical composition, and properties of various samples. This aligns with the research coordination objective of combining experimental, theoretical, and computational methods for studying irradiation-driven chemistry (IDC) processes on a molecular level. The spectrometer will facilitate the generation of valuable data on photon, electron, or ion interaction cross-sections with diverse samples, contributing to a comprehensive databank within the COST Action. This fosters research coordination and knowledge sharing across the scientific community.

The operational setup of the spectrometer at Gdańsk University of Technology will enhance its research capabilities and expertise in electronic spectroscopy. The availability of the spectrometer will attract researchers, foster collaborations, and facilitate knowledge exchange, contributing to the capacity-building objective of accumulating and systematizing knowledge within this research field. Researchers at Gdańsk will contribute to understanding ionization processes and help formulate key research domains. Their expertise will shape the direction of future studies and support the dissemination of scientific and technological outcomes to a broader audience, including policymakers and the general public.

Planned Follow-Up Activities

The successful completion of this STSM lays the groundwork for future collaborations and initiatives. The planned follow-up activities include:

1. Reassembly and Calibration
2. Joint Research Projects
3. Workshops and Training
4. Continuous Data Sharing

In conclusion, the STSM has been a pivotal step in advancing research coordination and capacity building within the Action CA20129, achieving its planned goals and setting the stage for fruitful future collaborations.