

Author(s): Dr R. Montgomery (University of Glasgow) on behalf of INPC2019 multi-institutional outreach team (undergraduate/postgraduate students, STFC Kick-Start Public Engagement Interns, post-doctoral researchers, lecturers)

Institution(s): University of Glasgow (UoG), Binding Blocks Collaboration, University of York (UoY), University of Hull

Funder(s): STFC

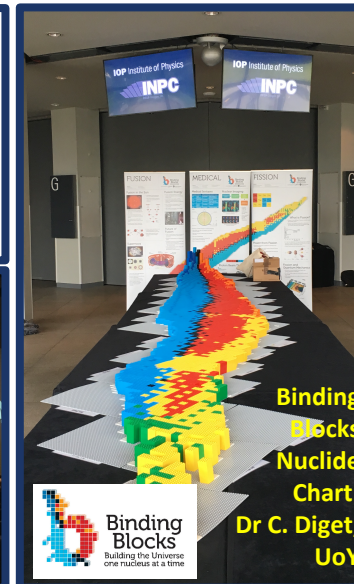
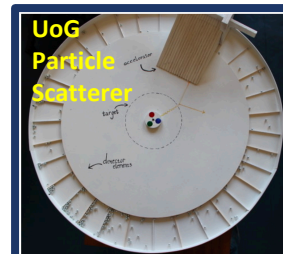
Abstract

A series of nuclear physics public engagement events were delivered during the 2019 International Nuclear Physics Conference (INPC2019). This resulted in the development and exchange of several nuclear physics outreach resources. **The events brought together students and researchers from different areas of nuclear physics to engage with an estimated >200 members of the public and >500 conference delegates.**

Project Description

- INPC2019 held July 2019, Scottish Exhibition Centre, Glasgow
- STFC Spark Award for public engagement awarded helped fund some INPC2019 public engagement activities
- Several interactive displays designed. **Themes included: nuclide chart; nucleosynthesis and nuclear astrophysics; scattering experiments and probing the structure of matter; quarks and hadrons; nuclear medicine and medical imaging; photoelectric effect and its role in particle detectors**
- Displays exhibited during an IOP public lecture for attendees to engage with before and after lecture
- Dedicated open day for general public held
- INPC2019 held parallel public engagement conference sessions – useful for researchers to discuss several aspects of outreach

Example Outreach Activities



Conclusions

- Estimate participation of at least 200 members of public, including: families/adults/teachers/tourists
- **Conferences offer prime opportunities to showcase international research to local communities and facilitate discussions between public and scientists**
- At least 500 conference participants (and some of their families) also interacted with exhibits
- **Conferences are fruitful forums for highlighting importance of public engagement to researchers and exchanging engagement tools**

Contacts for future outreach collaboration & access to materials

- UoG Nuclear and Hadron Physics Research Group: <http://nuclear.gla.ac.uk>
- Binding Blocks: <https://www.york.ac.uk/physics/public-and-schools/secondary/binding-blocks/>
- Nucleosynthesis game: <https://www.makeplayingcards.com/sell/nucleosynthesisrovide>