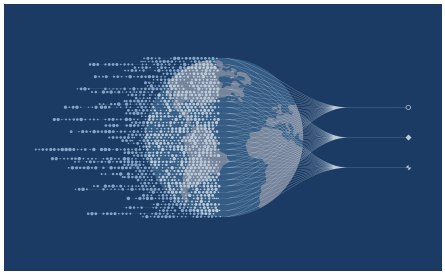

ID: **P3.2-173** Type: **E-poster**

Solutions for Radioxenon Monitoring

The SAUNA QUBE, developed by the Swedish Defence Research Agency and manufactured by Scienta Envinet, represents a major advancement in atmospheric radioxenon monitoring. It offers high performance at significantly lower costs than its predecessors, allowing the creation of dense monitoring arrays that improve detection probability, data availability, and source localization precision. To match this hardware development, Scienta Envinet is devoting significant energy to developing analysis tools for efficient use of array data, with a focus on atmospheric transport modelling and robust emission source tracking algorithms that can be used as part of the routine operation. This talk will give an overview of how radioxenon monitoring arrays are constructed and managed in practice, including how data is handled in the central monitoring software Network Monitoring Centre, and provide example results from the source tracking algorithm applied to real world cases.

E-mail

viktor.thoren@scientaenvinet.com

In-person or online preference

Primary author: Mr THORÉN, Viktor (Scienta Sauna Systems AB)

Co-authors: Mr FLIERL, Bernhard (Scienta Sauna Systems AB); WEHRHAHN, Ansgar (Scienta Sauna Systems AB); Mr LUCHKOV, Maksym (Scienta Sauna Systems AB)

Presenter: Mr THORÉN, Viktor (Scienta Sauna Systems AB)

Session Classification: P3.2 Radionuclide Technologies and Applications

Track Classification: Theme 3. Monitoring and On-Site Inspection Technologies and Techniques: T3.2 Radionuclide Technologies and Applications