

## Session Program

15-19 Feb 2026

ISOTOPIC TIME MACHINE  
FROM CULTURAL HERITAGE  
TO SUSTAINABLE FUTURE



# 12th International Conference on Isotopes - 12ICI

## 6. Security, Safety and Quality Assurance - Tue\_S1\_D

Grand Hotel Mediterraneo  
Lungarno del Tempio, 44 - 50121, Firenze

## Tuesday 17 February

11:02

### 6. Security, Safety and Quality Assurance - Tue\_S1\_D

**Session** | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**  
Mariagabriella Pugliese, Clemens Walther

11:02-11:22

#### NOVEL MICROWAVE DISSOLUTION METHODS FOR NUCLEAR FORENSICS APPLICATIONS

**Speaker**

Jack Burgoyne

11:22-11:42

#### PARTICLE SIZE CHARACTERIZATION OF 238-PuO<sub>2</sub> PARTICLES VIA AUTORADIOGRAPHY AND SCANNING ELECTRON MICROSCOPY AUTOMATED PARTICLE ANALYSIS FOR INCIDENT RESPONSE

**Speaker**

Kimberly Wurth

11:44-12:04

#### ANALYSIS OF SMALL SAMPLES OF SPENT NUCLEAR MATERIALS FOR INTERPRETING REACTOR OPERATING HISTORY

**Speaker**

Brett Isselhardt

12:04-12:19

#### VALIDATION OF A FAST METHOD FOR DETERMINATION OF AM-241 IN NASAL MUCUS SAMPLES USING HIGH RESOLUTION GAMMA SPECTROMETRY

**Speaker**

Michele Galletta

12:19-12:34

#### RAPID COLUMN-BASED SEPARATION OF KEY ACTINIDE AND FISSION PRODUCTS OF URANIUM FOR NUCLEAR FORENSIC ANALYSIS

**Speaker**

Emily Paige Abel

12:34-12:48

#### SHORT-LIVED RADIONUCLIDES FOR INCORPORATION INTO RADIOLOGICAL RESPONSE AND NUCLEAR FORENSIC TRAINING MATERIALS

**Speaker**

JUSTIN COOPER

12:48-13:02

#### UTEVA/DGA RESIN STACK FOR THE SEPARATION OF BOTH SHORT- AND LONG-LIVED ACTINIDES

**Speaker**

Staci Herman

13:02