



Contribution ID: 248

Type: Poster

## Tunisian Experience Assessment of Installing a Pilot Cobalt-60 Source for Irradiation

*Wednesday, 26 April 2017 14:15 (2 hours)*

Radiation processing technology started in Tunisia by the installation of a pilot plant gamma irradiator in 1999 in National Centre for Nuclear Science and Technology (CNSTN) situated at about 20 km in north of the capital Tunis. This facility was established with the support of the International Atomic Energy Agency (IAEA) in the frame of the technical co-operation assistance program and the French Atomic Energy Commission (CEA).

The facility is equipped with cobalt-60 source with dry storage and an initial activity of 100KCi in 1999 (10KCi in 2016). The source consists of telescopic cobalt-60 source (08 of C188 pencils-from Nordion), this french design was logged in a concrete shielding room about 1.7m of thickness.

This irradiation facilities are designed to be used for the promotional activities of radiation processing applications, in particular for conservation of foodstuff, sterilization of medical devices conservation of art objects and also dedicated to play a great role in enhancing research and development work and providing services to industrials mainly in the fields mentioned above and to gives more competitiveness for products dedicated for export to European Union countries.

In this reason Tunisia has implemented a regulation that authorizes radiation sterilization of various pharmaceuticals and foodstuffs.

The poster will focus on the activity of radiation technology by Tunisian pilot plant, and show the socio-economic advantages in industry and scientific research during fifteen years of this technology in the country, and discuss the goals achieved.

### Country/Organization invited to participate

Tunisia

**Primary author:** Mr TRABELSI, Mohamed Hedi (CNSTN, Nuclear Science & Technology Center, Tunisia)

**Co-authors:** Mr KRAIEM, Mokhtar (CNSTN, Nuclear Science & Technology Center, Tunisia); Mr TRABELSI, Zied (CNSTN, Nuclear Science & Technology Center, Tunisia)

**Presenter:** Mr TRABELSI, Mohamed Hedi (CNSTN, Nuclear Science & Technology Center, Tunisia)

**Session Classification:** P-A1

**Track Classification:** IRRADIATION FACILITIES