



June 1, 2021

Save the date!!!

WORKSHOP

Metal Finishing Industry: A shift to Greener Technologies

The Metal Finishing Industry uses mainly water and several chemicals during the various production processes and steps, generating a significant amount of hazardous and toxic wastes in liquid or solid form. The emitted chemicals can cause a variety of adverse health effects depending upon the toxic nature of the chemical; the medium of exposure (i.e., air, water, soil, or food); the chemical concentration to which an individual is exposed; and the duration and frequency of the exposure. In addition, exposed individuals will have varying degrees of sensitivity to chemicals depending on the person's health status, age, and sex. Moreover, well established processes such as hard chromium plating and plating on plastics, are based on highly toxic compounds (e.g. chromic acid, containing hexavalent chromium) or critical raw materials (e.g. Palladium).

The workshop, organized in the framework of the PureNano project, will focus on new advanced technologies in the area of Metal Finishing Industry targeting to greener technologies based on the use of less toxic materials, circular economy concepts and Eco-design.

The topics that will be discussed during the workshop are:

1. Green and future technologies for sustainable plating industry
2. Application of Circular Economy Concepts in the surface finishing industry, the PureNano Project
3. Metal Matrix nano-Composite Coatings, a potential of hard chromium replacement
4. Simulation modelling tools leading to higher sustainability of the metal finishing industry
5. Advance, environmental friendly aluminium anodizing process
6. Market perspectives and trends in the surface finishing industry
7. Towards a more sustainable surface finishing industry: Regulatory Framework Challenges
8. EN 17059:2018 "Plating and anodizing lines - Safety requirements"
9. Safe-by-design applied to nanomaterials use in the metal finishing industry

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