



# First Tunisia-India workshop on Tribology For Sustainable Development

## TSD 2018

19<sup>th</sup> and 20<sup>th</sup> December 2018, Hammamet - Tunisia

### Workshop Scope

The Laboratory of Electromechanical Systems (LASEM) – National Engineering School of Sfax (ENIS) Tunisia, in collaboration with the Tribology Laboratory – National Institute of Technology (NIT) Srinagar India, are organizing their first workshop for faculty, researchers and engineers working in the field of Tribology, nanomaterials, and sustainability of mechanical systems. The objective of this workshop is to update the knowledge of participants in these fields and to prepare them for resolving the future challenges faced by designers, engineers, researchers, etc. The workshop will also promote exchanges between the two partners and offer an opportunity for scientific cooperation between the various stakeholders from the two countries. Plenary sessions, short-term scientific presentations, etc will be part of this workshop.

#### Tribology of coatings and nanomaterials

- Polymer coatings
- Electrolytic coatings
- Ceramic coatings
- Microcomposite coatings
- Nanocomposite coatings
- PVD coatings
- CVD coatings

#### Tribology of implants

- Friction and wear of orthopedic applications
- Tribological analyses of orthodontic prosthesis
- Cementless fixation of orthopedic implants

#### Sustainability design through innovative tribology

- Systematic design process
- Application of tribology for innovative sustainability design
- Evaluation of sustainability design concept

#### Nanotribology and nanolubrication

- Fluid lubrication
- Solid lubrication
- Self lubricated microcomposite and nanocomposite

#### Tribology and tribological development

- Specific tribological applications
- Case studies

#### Workshop Chair

Mohamed KHARRAT

#### Workshop co-chair

Mohammad FAROOQ WANI

#### Registration fees

For Partners 400 Dinars  
For Foreigners 300 Euros

Information's: [mohamed.kharrat@ipeis.rnu.tn](mailto:mohamed.kharrat@ipeis.rnu.tn); [mfwani@nitsri.ac.in](mailto:mfwani@nitsri.ac.in)