



**The 75<sup>th</sup> Annual Meeting and Exhibition of the  
Society of Tribologists and Lubrication Engineers  
Nonferrous Metals Council**

The STLE and **Nonferrous Metals Council** are soliciting presentations and papers on topics for the **STLE 2020 Annual Meeting** in Chicago, IL on May 3-7, 2020.

Paper topics include all aspects of tribology and lubrication where at least one of metallic objects is made not of iron, and may include aluminum, copper/brass, magnesium, gold/silver, composites. Specific topics of interest include:

- **Tribology of Non-Ferrous Metal Processing (Hot/Cold Rolling, Forming, Machining)**
  - Friction, wear, adhesion and lubrication
  - Surface defects and quality
  - Methods of chemical and physical surface characterization
  - Monitoring of friction and thermal aspects of lubricant performance in various metal forming operations
  - Roll grinding, surface texturing and coatings
  - Lightweight metals for automotive and transportation applications
- **Lubricant Formulation and Chemistry for Non-Ferrous Metal Processing**
  - Base oils and boundary lubrication additives
  - Emulsifiers and emulsion stability
  - Antioxidants and corrosion inhibitors
  - Formulation testing and analysis
- **Recent Advances in Bio-based lubrication for Non-Ferrous and Related Applications**
  - Novel biobased base oils and additives – synthesis and characterization
  - Novel biobased lubricants – formulation and evaluations
  - Application of biobased lubricants for aluminum processing and related applications



- **Lubricant Condition Monitoring for Nonferrous Metal Processing**
  - Identification and quantification of additives
  - Coolant and lubricant in-use analysis and monitoring
  - VOC control and analysis
  - Distillation for cold mill contaminant removal
  - Microbial control
  
- **Regulations and Policies (Federal, State, Non-government) and Industry Trends**
  - ILMA: ethics and branding of lubricant producers
  - Waste treatment for emulsions and oil/water mixtures
  - VOC regulations
  - Bio-preferred program

The Nonferrous Metals sessions include scientific and technological presentations from academia, industry and government in all areas related to tribology and lubrication of nonferrous metals. To submit your 150-word abstract, go to the STLE website <https://stle2020.abstractcentral.com> and click on “**Submit My Abstract**”. Remember to indicate “**Nonferrous Metals**” when submitting. The deadline for submissions is October 1st 2019.

For further information, please contact:

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