

I WORKSHOP FURG(BRAZIL)- AC2T(AUSTRIA) ON TRIBOACOUSTICS

08/07/2020

09am Brasilia time (GMT -3); 2pm Austria (GMT +2)

Live webinar

<https://conferenciaweb.rnp.br/webconf/henara-henara-lillian-costa-murray>

Speaker: Dr. Michele Schirru

Job Title: Scientist and project leader.

Affiliation: AC2T research GmbH.

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Dr. Schirru is a research engineer and project leader at AC2T research GmbH. He graduated as PhD in mechanical engineering from the University of Sheffield (2016) with specialisation in the development of ultrasonic devices for measurements of tribological contacts. His PhD thesis was published as a book by Springer, and for his innovative work he won the prestigious IMechE Tribology Bronze Medal (2017). He worked as post-doc at the University of Sheffield and, in parallel, operated as a consultant for industry, with over 6 years of expertise in transferring research technologies into industry. He has also developed condition monitoring products for the oil&gas industry based on ultrasonic technology.

TOPICS:

- Why ultrasonic measurements?
- Fundamentals of ultrasonic measurement principles
- History of film thickness measurements with ultrasound
- Theory of film thickness measurement in film thickness measurement
- State of the art examples in film thickness measurement
- Post-processing technique
- Materials: how to choose piezoelectric substrates and bonding materials.
- How to construct a robust probe.
- Challenges/limitations of the technique

Organized by:

- Post-graduate Course in Mechanical Engineering – FURG
- Prof. Henara Lillian Costa (henaracosta@furg.br)
- Álvaro Piovesan, M.Sc. Student (alvaro.engmeca@gmail.com)

