

# SDEMPED

27>30 August 2019

Symposium on Diagnostics for Electric Machines, Power Electronics and Drives

Toulouse, France



pending





## Topics of the symposium

- 1. Electrical machines:** Failure detection and location / vibration, audible noise, electrical or mechanical variables, sensors, insulation failures, electrical, mechanical and thermal models
- 2. Power electronics:** Diagnostics / input-output monitoring, thermal and/or electrical measurements on power semi-conductors, control supervision, signal processing
- 3. Adjustable speed drives :** Monitoring and diagnostics for ASDs using electrical machines, power converters and control systems, computer-based signal processing and data analysis
- 4. Methods and tools for diagnostic and prognostic:** neural networks, fuzzy logic, AI, genetic algorithms, expert systems, identification, signal processing techniques, observers...
- 5. Materials for electrical machines:** Insulating and magnetic materials, RUL models, ageing tests
- 6. Tests for predictive maintenance:** Partial discharge analysis and tests, new instruments for diagnostics
- 7. Fuel Cells and Electrolyzers :** models for diagnostic or ageing, tests
- 8. Power Systems and Power Networks, Embedded Systems, Emergency Applications**





## Committees

- **General chair:** Pascal Maussion (France)
- **Honorary co-chairs :** Giuseppe Buja (Italy), Gérard-André Capolino (France)
- **Technical program committee:** Jose A. Antonino-Daviu (Spain), Sang Bin Lee (Korea), Hubert Razik (France), Antoine Picot (France)

## Deadlines

- Special session and tutorial proposals: 2018, December 16<sup>th</sup>
- Provisional full paper and tutorials proposals: **2019, January, 27<sup>th</sup>**
- Acceptance notification : 2019, April 21<sup>st</sup>
- Final submissions : 2019, June 2<sup>nd</sup>

<http://www.sdemped2019.com>



# Toulouse is...



Take part in internationally renowned research  
Top-ranking research centres

<b>15</b> Doctoral schools	<b>4500</b> PhD students	<b>40%</b> come from abroad	<b>850</b> PhD degrees per year
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- One of the oldest universities in Europe (1229)
- 2° university city (after Paris) / nb of students and nb schools of engineers and universities

## Toulouse, often called “La ville rose”



**Charms of the Region: famous gastronomy of the Southwest, excellent wines...**

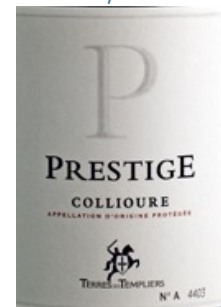
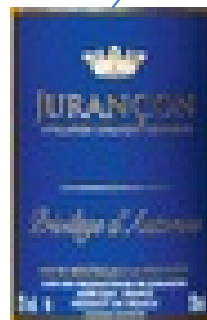
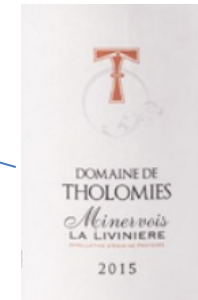
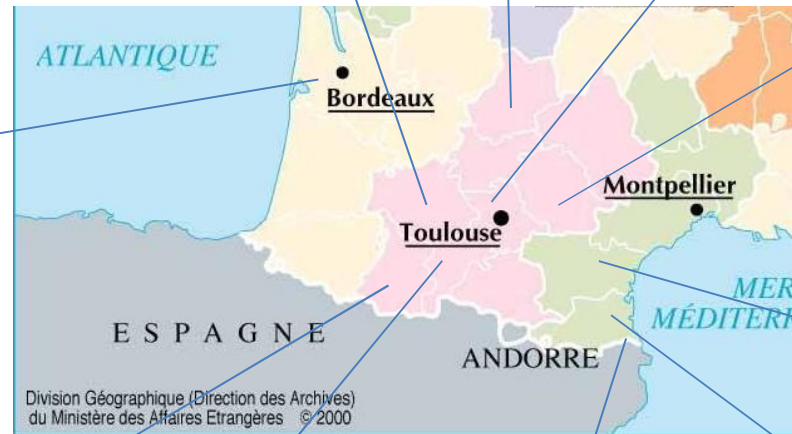
# In the heart of an amazing region



# In the heart of an amazing region



# Excellent wines

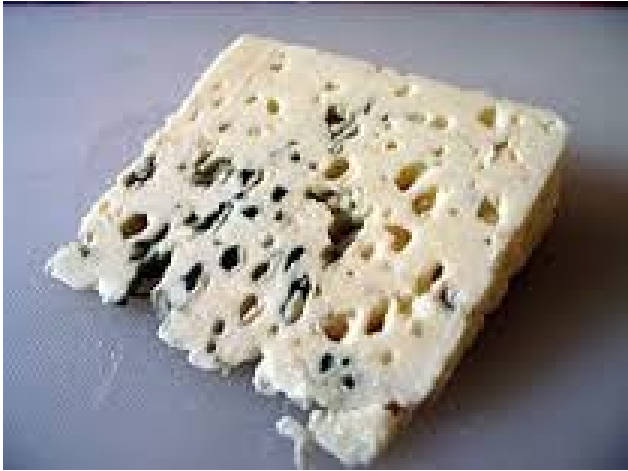




# Local beers



# Excellent food





# See you in Toulouse for Sdemped'19

<http://www.sdemped2019.com>

**Deadline** for provisional full papers and tutorials: **2019, January, 27th**

