

“Seals for green power generation”

<i>Thursday October 17</i>	
7h45 – 8h15	<b>Registration</b>
8h15 – 8h30	<b>General Introduction: CETIM, Pprime, University of Poitiers</b>
8h30 – 9h00	<b>Keynote session</b> <b>A) <u>Mechanical seals for Nuclear Pressurized Water Reactors Reactor Coolant Pumps – Challenges and perspectives</u></b> <b>Michel LEPINE</b> <i>Framatome</i>
9h00 – 9h15	<b>Questions</b> <span style="float: right;"><b>Chairman: N. Brunetière</b></span>
9h15 – 9h45	<b>Technical Session 1</b> <b>B) <u>Equivalent Energy Cycle Method for Prediction of Dry Gas Seal Lifetime under Start-stop conditions</u></b> <b>Fordham J. <sup>a</sup></b> <i><sup>a</sup> John Crane</i>
9h45 – 10h15	<b>C) <u>Recent trends in surface textured sealing technology for renewable energy generators with low losses and low leakage</u></b> <b>Tokunaga Y. <sup>a</sup></b> <i><sup>a</sup> EKK</i>  <span style="float: right;"><b>Chairman:</b></span>
10h15 – 10h45	<b>Coffee Break - Discussions</b>
10h45 – 11h15	<b>Technical Session 2</b> <b>D) <u>Experimental analysis of the leakage characteristics of an oil cooled electric motor L-shaped lip seal in high-speed conditions</u></b> <b>Valin T. <sup>a</sup></b> <i><sup>a</sup> IFPEN</i>
11h15 – 11h45	<b>E) <u>Experimental analysis of the power losses induced by lip seal in electric motor</u></b> <b>Amar L. <sup>a</sup></b> <i><sup>a</sup> CETIM</i>
11h45 – 12h15	<b>F) <u>What is the solution for dynamic sealing of EV motors?</u></b> <b>Henry Y. <sup>a</sup></b> <i><sup>a</sup> Pprime Institute</i>  <span style="float: right;"><b>Chairman:</b></span>
12h15 – 13h45	<b>Lunch</b>
14h00 – 14h30	<b>Technical Session 3</b> <b>G) <u>Invited Talk N°2 (to be announced)</u></b> <b><sup>a</sup></b> <i><sup>a</sup></i>
14h30 – 15h00	<b>H) <u>Elastomer shaft seals in oscillating and low-temperature wind turbine blade pitch control applications</u></b> <b>Wennehorst B. <sup>a</sup></b> <i><sup>a</sup> IMKT Hannover</i>
15h00 – 15h30	<b>I) <u>A practical approach for the estimation of stern tube oil leakage of the global Bulk Carrier fleet</u></b> <b>Charvalos G <sup>a</sup></b> <i><sup>a</sup> National University of Athens</i>  <span style="float: right;"><b>Chairman:</b></span>
15h30 – 16h15	<b>Coffee Break - Discussions</b>

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<b>Technical Session 4</b>	
16h15 – 16h45	<p><b>J) <u>Performance of Static Seals with Self-Affine Elasto-Plastic Rough Surfaces</u></b>  <b>Yastrebov V.</b> <sup>a</sup>  <sup>a</sup> Mines - Paristech</p>
16h45 – 17h15	<p><b>K) <u>Minimizing Frictional losses and maximizing lifetime in mechanical seals for green power generation</u></b>  <b>Walker C.</b> <sup>a</sup>  <sup>a</sup> Dimondhardsurfaces</p>
17h15 – 17h45	<p><b>L) <u>Fugitive emissions of a valve with gaseous Hydrogen: tests on seals and tests on valve</u></b>  <b>Sauger E.</b> <sup>a</sup>  <sup>a</sup> CETIM</p>
17h45 – 18h15	<p><b>K) <u>Packing sealing solution to reduce fugitive emissions</u></b>  <b>Adjemout M.</b> <sup>a</sup>  <sup>a</sup> Latty International</p>
<b>Chairman:</b>	
18h15 – 18h30	<b>Prix Michel Fillon (best paper) ; Closure</b>
20h00 – 23h00	<b>Diner (mandatory registration)</b>

<b>Poster Session</b>	
	<p><b>1) <u>CFD simulation of the thermohydrodynamic problem of a gas buffer impulse seal</u></b>  <b>Zahorulko A.</b> <sup>a</sup>  <sup>a</sup> Sumy State University</p>
	<p><b>2) <u>Deposition of carbon black nanoparticles with CO2 laser on the surface of 4340 SAE steel structured with Ytterbium fiber laser</u></b>  <b>Vasconcelos G.</b> <sup>a</sup>  <sup>a</sup></p>
	<p><b>3) <u>Leakage and rotordynamic coefficients of labyrinth-scallop seal</u></b>  <b>Zahorulko A.</b> <sup>a</sup>  <sup>a</sup> Sumy State University</p>
	<p><b>4) <u>Study of flows in capillaries for comparison between Helium and Hydrogen leak rates</u></b>  <b>Sauger E.</b> <sup>a</sup>  <sup>a</sup> CETIM</p>
	<p><b>5) <u>Usure et durée de vies des joints radiaux segmentés</u></b>  <b>Dialo I.</b> <sup>a</sup>  <sup>a</sup> Pprime Institute</p>
	<p><b>6) <u>Development and study of carbon brush seals</u></b>  <b>Soussi A.</b> <sup>a</sup>  <sup>a</sup> Pprime Institute</p>
	<p><b>7) <u>Essais d'émissions fugitives de joints en hydrogène gazeux et mélange gazeux: essais sur joints toriques et sur joints à lèvres sur banc d'essai</u></b>  <b>Plumecocq C.</b> <sup>a</sup>  <sup>a</sup> CETIM</p>
	<p><b>8) <u>State of the Art of H2 Compressors</u></b>  <b>Alix L.</b> <sup>a</sup>  <sup>a</sup> CETIM</p>
	<p><b>9) <u>Performance et durabilité des étanchéités élastomère pour application énergie décarbonée</u></b>  <b>Benbeka R.</b> <sup>a</sup>  <sup>a</sup> ISAE-ENSMA</p>
	<p><b>10) <u>Development of a specific test bench for gaseous H2 permeability</u></b>  <b>Destaing F.</b> <sup>a</sup>  <sup>a</sup> CETIM</p>