

***“Improvement of Bearing Performance
and Evaluation of Adverse Conditions”***

Thursday October 7, 2010

8h00-8h40	<i>Registration</i>
8h40-9h00	<i>General introduction by EDF/Pprime – Presentation of the program</i>
9h00-9h40	Keynote session A) <u>“Hydrodynamic bearing damage and remediation of contributing factors in rotating machinery”</u> Mr. Barry Blair^a and Dr. Guy Pethybridge^b, ^aChief Engineer, Waukesha Bearing Corp, USA ^bGlobal Product Manager, Waukesha Bearing Ltd, UK
9h40-9h50	<i>Questions</i>
9h50-10h00	<i>Presentation of the posters</i>
10h00-10h30	<i>Coffee Break - POSTER Session</i>
10h30-11h00	Technical session 1: Advanced technology and bearing improvement B) <u>“Improved performance of hydrodynamic bearings by proactive adjustment”</u> Martin J.K., The Open University, UK.
11h00-11h30	C) <u>“On the future of controllable fluid film bearings”</u> Santos I.F., Technical University of Denmark, Denmark.
11h30-12h00	D) <u>“Effects of oil supply flow rate and oil spray nozzle design on tilting pad journal bearing performance”</u> Hanahashi M., Kawaike K. and Uesato M., Daido Metal Co, Japan.
12h15-13h45	<i>Lunch</i>
14h15-14h45	Technical session 2: Bearing seizure and wear E) <u>“Modeling and prediction of a simplified seizure mechanism occurring in conrod bearing”</u> Ligier J-L. and Dutfoy L., Renault, France.
14h45-15h15	F) <u>“Clearance and lubricant selection for avoiding seizure in a CGJB based on a lumped model analysis”</u> Cristea A.F.^{a,b}, Pascovici M.D.^a and Fillon M.^b, ^aUniversity Polytechnica of Bucharest, Romania, ^bInstitut Pprime, France.
15h15-15h45	G) <u>“Proposal and application of wear model in hydrodynamic metal-polymer bearings”</u> Thomsen K. and Klit P., Technical University of Denmark, Denmark.
15h45-16h30	<i>Coffee Break - Discussions - POSTER Session</i>
16h30-17h00	Technical session 3: Bearing performance under adverse operating conditions H) <u>“Performance degradation in scratched journal bearings”</u> Dobrica M.B.^a and Fillon M.^b, ^aTecnitas, France, ^bInstitut Pprime, France.
17h00-17h30	I) <u>“Use of EDYOS at EDF’s engineering division in the steam turbine domain”</u> Gaudin M. and Martinal H., EDF Septen, France.
17h30-18h00	J) <u>“Balancing with the presence of a rub”</u> Péton N., General Electric, France.
18h15	<i>Cocktail</i>

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Friday October 8, 2010

8h30-9h00	<i>Registration - Coffee</i>
9h00-9h30	Technical session 4: Bearing with PFTE or PEEK layer K) <u>“The advantages of PTFE journal bearing technology for marine propulsion applications”</u> Dixon S.J.^a, Waggott J.^a and Simmons J.E.L.^b, ^aRolls-Royce Newcastle, UK, ^bHeriot-Watt University, UK.
9h30-10h00	L) <u>“The effect of PTFE lining on plain journal bearing characteristics”</u> Kuznetsov E.^a, Glavatskih S.^a and Fillon M.^b, ^aLulea University of Technology, Sweden, ^bInstitut Pprime, France.
10h00-10h30	<i>Coffee Break - POSTER Session</i>
10h30-11h00	Technical session 5: Thrust bearings M) <u>“Large hydrodynamic thrust bearing – comparison of the theoretical prediction and measurements”</u> Wodtke M.^a, Schubert A.^b, Fillon M.^c, Wasilczuk M.^a and Pajaczowski P.^{a,b}, ^aGdansk University of Technology, Poland, ^bALSTOM Hydro, Switzerland, ^cInstitut Pprime, France.
11h00-11h30	N) <u>“Integral measuring ring for tilting pad thrust bearings”</u> Beneke R. and Klein U., John Crane Bearing Technology GmbH, Germany.
11h30-12h00	O) <u>“Centrally pivoted tilting pad thrust bearing with inlet and outlet tapers – measurements vs. TEHD investigations”</u> Pajaczowski P., Schubert A. and Brescianini T., ALSTOM Hydro, Switzerland.
12h00-12h15	<i>Assessment - Discussion</i>
12h30-14h00	<i>Lunch</i>
14h00-17h00	<u>Motor and bike museum (please register for participation)</u>

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10h00-10h30 & 15h45-16h30	P) <u>“XRF analysis applied to cast babbitt”</u> Branaghan L.A., Pioneer Motor Bearing, USA. Q) <u>“Cavitation test according to ASTM G32”</u> Chen Y-M., Tessier J-J. and Caze D., CETIM, France. R) <u>“Modeling of the wave journal bearing dynamic behavior with a non-linear transient analysis”</u> Ene N., Dimofte F. and Afjeh A., University of Toledo, USA. S) <u>“Numerical modelling of hydrostatic lift pockets in hydrodynamic journal bearings – Application to low speed working conditions of highly loaded tilting pad journal bearings”</u> Raud X.^a, Fillon M.^b and Helene M.^a, ^aEDF R&D, France, ^bInstitut Pprime, France. T) <u>“Design of a test rig for tilting-pad journal bearings”</u> Pennacchi P., Chatterton S., Ricci R. and Vania A., Politecnico di Milano, Italy. U) <u>“Identification of heat flow through the pad in hydrodynamic and hydrostatic operation of thrust bearing”</u> Lang M.^a, Dąbrowski L.^b and Wasilczuk M.^b, ^aAndritz Hydro GmbH, Austria, ^bGdansk University, Poland. V) <u>“Impact of lubricant contamination with water on hydrodynamic thrust bearing performance”</u> Harika E.^{a,b}, Hélène M.^a, Bouyer J.^b and Fillon M.^b, ^aEDF R&D, France, ^bInstitut Pprime, France. W) <u>“Influence of geometric imperfections on tapered roller bearings life and performance”</u> Rodríguez R.^a, Nadal I.^a and Santo Domingo S.^b, ^aInstituto Tecnológico de Aragón, Spain, ^bFERSA Bearings S.A, Spain
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