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LIST OF PUBLICATIONS

1 Thesis et Habilitation (HDR), Book Chapters, Editorial Contributions

- [A.1] **FILLON M., (1985)**
"Contribution à l'étude des phénomènes thermiques dans les paliers à patins oscillants"
 Doctorat de 3ème Cycle, Poitiers, 21 Mars.
- [A.2] **FILLON M., (1995)**
 Habilitation à Diriger les Recherches, Poitiers, 13 Juillet.
- [A.3] **FRENE J., FILLON M., NICOLAS D., (2001)**
"PALIERS HYDRODYNAMIQUES – Aspects historiques et développements actuels."
 "SURFACES, TRIBOLOGIE ET FORMAGE DES MATERIAUX", Les Presses de l'Ecole des Mines de Paris, ISBN 2-911762-25-8, chapitre « IV. TRIBOLOGIE », pp. 351-373.
- [A.4] **FILLON M., DOBRICA M., (2009)**
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 Material and Manufacturing Technology Series, Editeur: J. Paulo Davim, Nova Science Publishers, ISBN 978-1-60692-885-1, pp. 1-31.
- [A.5] **FILLON M., OLVER A., editors (2010)**
 Special Section on *"Surface Engineering and Surface Texture"*
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- [A.6] **BRUNETIERE N., FILLON M., editors (2012)**
 Special Issue on *"Mixed Lubrication in Hydrodynamic Contacts"*
 in Journal of Engineering Tribology, Part J, ISSN: 1350-6501, eISSN: 2041-305X, Vol. 226, N° J12, éditorial page 1009 (DOI: [10.1177/1350650112467894](https://doi.org/10.1177/1350650112467894)) et 9 publications pages 1010-1153.
- [A.7] **FILLON M., editor (2013)**
"Section: Conformal-contact lubrication."
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- [A.8] **DMOCHOWSKI W., CONLON M.J., DADOUCHE A., FILLON M., (2013)**
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- [A.9] **DMOCHOWSKI W., DADOUCHE A., FILLON M., (2013)**
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- [A.10] **DOBRICA M., FILLON M., (2013)**
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- [A.11] **DADOUCHE A., FILLON M., DeCAMILLO S., (2013)**
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- [A.12] **DMOCHOWSKI W., DADOUCHE A., FILLON M., DeCAMILLO S., (2013)**
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- [A.13] **DADOUCHE A., DeCAMILLO S., FILLON M., (2013)**
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- [A.14] **DeCAMILLO S., DADOUCHE A., FILLON M., (2013)**
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- [A.15] **DOBRICA M., FILLON M., (2013)**
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- [A.16] **DeCAMILLO S., DADOUCHE A., FILLON M., (2013)**
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- [A.17] **GLOVNEA R., FILLON M., Guest editors (2014-2015)**
 Special Issue on “Friction and Lubrication of Bearings”
 in Lubricants, ISSN: 2075-4442, 15 papers. http://www.mdpi.com/journal/lubricants/special_issues/bearings
- [A.18] **FILLON M., LIU W., CANN P., co-editors-in-chiefs (2015)**
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- [A.20] **FILLON M., LIANG H., LIU W., co-editors-in-chiefs (2015)**
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- [A.21] **FILLON M., LIANG H., LIU W., co-editors-in-chiefs (2016)**
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- [A.25] **FILLON M., LIANG H., LIU W., co-editors-in-chiefs (2019)**
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- [A.26] **FILLON M., LIANG H., LIU W., co-editors-in-chiefs (2020)**
 Tribology International, Volume 141, (January 2020) ISSN: 0301-679X
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- [A.27] **FILLON M., LIANG H., LIU W., co-editors-in-chiefs (2021)**
 Tribology International, Volume 153, *in progress* (January 2021) ISSN: 0301-679X

2 Publications in International Journals

a) Research papers, technical paper and technical notes

- [B.1] **BONCOMPAIN R., FILLON M., FRENE J., (1986)**
"Analysis of thermal effects in hydrodynamic bearings."
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 108, N° 2, pp. 219-224. (DOI:10.1115/1.3261166)
- [B.2] **BONCOMPAIN R., FILLON M., FRENE J., (1987)**
"Effets thermiques dans les paliers hydrodynamiques - Aspects théoriques et expérimentaux."
Journal de Mécanique Théorique et Appliquée, Vol. 6, N° 2, pp. 253-293.
- [B.3] **FRIOU T., FRENE J., FILLON M., (1989)**
"Analyse thermischer Wirkungen in hydrodynamischen Kippsegmentgleitlagern - Theorie und Experimente."
Schmierungstechnik, Berlin 20, N° 7, pp. 209-214.
- [B.4] **FILLON M., BLIGOU D., FRENE J., (1992)**
"Experimental study of tilting-pad journal bearings - Comparison with theoretical thermoelastohydrodynamic results."
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 114, N° 3, pp. 579-588. (DOI:10.1115/1.2920920)
- [B.5] **DESBORDES H., FILLON M., CHAN HEW WAI C., FRENE J., (1994)**
"Dynamic analysis tilting-pad journal bearings - Influence of pad deformations."
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 116, N°3, pp. 621-628. (DOI:10.1115/1.2928890)
- [B.6] **DESBORDES H., FILLON M., FRENE J., CHAN HEW WAI C., (1995)**
"The effects of three-dimensional pad deformations on tilting-pad journal bearings under dynamic loading."
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 117, N°3, pp. 379-384. (DOI:10.1115/1.2831262)
- [B.7] **BOUARD L., FILLON M., FRENE J., (1996)**
"Comparison between three turbulent models - Application to thermohydrodynamic performances of tilting-pad journal bearings."
Tribology International, ISSN: 0301-679X, Vol. 29, N°1, pp. 11-18. (DOI: 10.1016/0301-679X(95)00028-3)
- [B.8] **FILLON M., DESBORDES H., FRENE J., CHAN HEW WAI C., (1996)**
"A global approach of thermal effects including pad deformations in tilting-pad journal bearings submitted to unbalance load."
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- [B.9] **BOUARD L., FILLON M., FRENE J., (1996)**
"Thermohydrodynamic analysis of tilting-pad journal bearings operating in turbulent flow regime."
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- [B.10] **FILLON M., KHONSARI M.M., (1996)**
"Thermohydrodynamic design charts for tilting-pad journal bearings."
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 118, N°1, pp. 232-238. (DOI:10.1115/1.2837084)
- [B.11] **BOUCHOULE C., FILLON M., NICOLAS D., BARRESI F., (1996)**
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- [B.12] **KHONSARI M.M., JANG J.Y., FILLON M., (1996)**
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- [B.13] **MONMOUSSEAU P., FILLON M., FRENE J., (1997)**
"Transient thermoelastohydrodynamic study of tilting-pad journal bearings - Comparison between experimental data and theoretical results."
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- [B.14] **FILLON M., MONMOUSSEAU P., FRENE J., (1997)**
"Thermoelastohydrodynamique des paliers à patins oscillants en régime transitoire."
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(DOI: 10.1016/S0035-3159(97)89560-8)
- [B.15] **MONMOUSSEAU P., FILLON M., FRENE J., (1998)**
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- [B.17] **MONMOUSSEAU P., FILLON M., (1999)**
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- [B.18] **KUCINSCHI B., FILLON M., (1999)**
"An Experimental Study of Transient Thermal Effects in a Plain Journal Bearing."
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 121, N° 2, pp. 327-332. (DOI:10.1115/1.2833940)

- [B.19] **MONMOUSSEAU P., FILLON M., (1999)**
"Analysis of Static and Dynamic Misaligned Tilting-Pad Journal Bearings."
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- [B.20] **DADOUCHE A., FILLON M., BLIGOUD J.C., (2000)**
"Experiments on Thermal Effects in a Hydrodynamic Thrust Bearing."
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- [B.21] **MONMOUSSEAU P., FILLON M., (2000)**
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- [B.23] **COSTA L., FILLON M., MIRANDA A.S., CLARO J.C.P., (2000)**
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"Experimental Study of the Influence of Changes in Load Direction on the Performance of a Crown Bearing."
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- [B.29] **BOUYER J., FILLON M., (2003)**
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- [B.30] **COSTA L., MIRANDA A.S., FILLON M., CLARO J.C.P., (2003)**
"An analysis of the influence of oil supply conditions on the thermohydrodynamic performance of a single-groove journal bearing."
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 (DOI 10.1243/13506500360603561)
- [B.31] **COSTA L., MIRANDA A.S., CLARO J.C.P., FILLON M., (2003)**
"Temperature, flow, and eccentricity measurements in a journal bearing with a single axial groove at 90° to the load line."
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- [B.32] **FILLON M., BOUYER J., (2004)**
"Thermohydrodynamic Analysis of a Worm Plain Journal Bearing."
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- [B.33] **PIERRE I., BOUYER J., FILLON M., (2004)**
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"Relevance of thermoelastohydrodynamic model in the analysis of a plain journal bearing subjected to severe operating conditions."
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 International Journal of Applied Mechanics and Engineering, **ISSN: 1734-4492**, Vol. 10, N°3, pp. 441-450.
- [B.37] **DOBRICA M., FILLON M., (2005)**
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- [B.74] **PAPADOPOULOS C.I., KAIKTSIS L., FILLON M., (2014)**
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- [B.78] **BRITO F.P., MIRANDA A.S., CLARO J.C.P., TEIXEIRA J.C., COSTA L., FILLON M., (2014)**
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- [B.87] **GIRAUDEAU C., BOUYER J., FILLON M., HELENE M., BEAURAIN J., (2017)**
"Experimental study of the influence of scratches on the performance of a two-lobe journal bearing."
 STLE Tribology Transactions, ISSN: 1040-2004, eISSN: 1547-397X, Vol. 60, N°5, pp. 942-955.
 (DOI 10.1080/10402004.2016.1238528)

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"Transient pressure and temperature field measurements in a lightly loaded circumferential groove journal bearing from startup to steady-state stabilization."
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- [B.94] **CUI S., ZHANG C., FILLON M., GU L., (2020)**
"Optimization performance of plain journal bearings with partial wall slip."
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"Computational evaluation of dynamic coefficients of thrust bearings: effect of artificial surface texturing on thermohydrodynamic performance."
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"Effects of thermal and mechanical deformations on textured thrust bearings optimally designed by a THD calculation method."
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"Numerical investigation of parallel and quasi-parallel slider bearings operating under thermoelastohydrodynamic (TEHD) regime."
 Tribology International, ISSN: 0301-679X, Vol. 149, September, 105517 (11 pages). (DOI 10.1016/j.triboint.2018.12.017)
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"Experimental investigation on the influence of a multi-scratched shaft on hydrodynamic journal bearing performance."
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b) Discussions on Research and technical papers

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Discussion: "Operating Conditions of Multi-Lobe Journal Bearings Under High Thermal Loads" (Mittwollen, N., and Glienicke, J., 1990, ASME J. Tribol., 112, pp. 330–338)
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- [Bd.02] **FILLON M., FRENE J., (1990)**
Discussion: "A Finite Volume Analysis of the Thermohydrodynamic Performance of Finite Journal Bearings" (Han, T., and Paranjpe, R. S., 1990, ASME J. Tribol., 112, pp. 557–565)
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 112, N°3, pp. 565-565. (DOI:10.1115/1.2924261)
- [Bd.03] **FILLON M., BLIGOU D., FRENE J., (1992)**
Closure to "Discussions of 'Experimental Study of Tilting-Pad Journal Bearings—Comparison With Theoretical Thermoelastohydrodynamic Results'" (1992, ASME J. Tribol., 114, p. 587)
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 114, N° 3, pp. 587-588. (DOI:10.1115/1.2928718)
- [Bd.04] **DESBORDES H., FILLON M., CHAN HEW WAI C., FRENE J., (1994)**
Closure to "Discussion of 'Dynamic Analysis of Tilting-Pad Journal Bearing—Influence of Pad Deformations'" (1994, ASME J. Tribol., 116, p. 627)
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 116, N°3, pp. 627-628. (DOI:10.1115/1.2928892)
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Closure to "Discussion of 'Thermohydrodynamic Design Charts for Tilting-Pad Journal Bearings'" (1996, ASME J. Tribol., 118, pp. 702–703)
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- [Bd.06] **FILLON M., DESBORDES H., FRENE J., CHAN HEW WAI C., (1997)**
Closure to "Discussion of 'A Global Approach of Thermal Effects Including Pad Deformations in Tilting-Pad Journal Bearings Submitted to Unbalance Load'" (1997, ASME J. Tribol., 119, p. 227)
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 119, N°1, pp. 227-228. (DOI:10.1115/1.2832468)
- [Bd.07] **BOUARD L., FILLON M., FRENE J., (1997)**
Closure to "Thermohydrodynamic Analysis of Tilting-Pad Journal Bearings Operating in Turbulent Flow Regime" (1997, ASME J. Tribol., 119, p. 229–230)
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 119, N°1, pp. 230-230. (DOI:10.1115/1.2832474)
- [Bd.08] **FILLON M., (1997)**
Discussion: "CFD Based Design Techniques for Thermal Prediction in a Generic Two-Axial Groove Hydrodynamic Journal Bearing" (Keogh, P. S., Gomiciaga, R., and Khonsari, M. M., 1997, ASME J. Tribol., 119, pp. 428–435).
ASME Journal of Tribology, ISSN: 0742-4787, eISSN: 1528-8897, Vol. 119, N°3, pp. 436-436. (DOI:10.1115/1.2833512)

3 International Conferences with Proceedings

a) Invited Conférences, keynote, plenary presentation

- [C.a1] **FILLON M.**
"Thermal and deformation effects on tilting-pad thrust and journal bearing performance."
III Congresso Ibérico de Tribologia, IBERTRIB 2005, Guimaraes, Portugal, 16-17 juin, CD, pp. 1-12, (2005).
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- [C.87] **HELENE M., BEURAIN J., RAUD X., FILLON M.**
"Impact of scratches in tilting pad journal bearings – Influence of the geometrical characteristics of scratches."
 12th EDF/Pprime Workshop on "Solutions for performance improvement and friction reduction of journal and thrust bearings", Futuroscope, 17 & 18 septembre, 1-12 pages, (2013).
- [C.88] **HENRY Y., BOUYER J., FILLON M.**
"Contribution of textures to the hydrodynamic effect on parallel surface thrust bearings during the start-up period."
 12th EDF/Pprime Workshop on "Solutions for performance improvement and friction reduction of journal and thrust bearings", Futuroscope, 17 & 18 septembre, 1-11 pages, (2013).
- [C.89] **BRITO F.P., MIRANDA A.S., CLARO J.C.P., TEIXEIRA J.C., COSTA L., FILLON M.**
"The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings."
 12th EDF/Pprime Workshop on "Solutions for performance improvement and friction reduction of journal and thrust bearings", Futuroscope, 17 & 18 septembre, 1-24 pages, (2013). *Poster, Best Poster Award by Section France of ASME in 2013.*
- [C.90] **BOUYER J., HENRY Y., FILLON M.**
"An experimental comparison of the steady-state performance between flat-land, tapered-land, pocket and textured thrust bearings."
 STLE 69th Annual Meeting, Lake Buena Vista, May 18-22, CD, pp. 1-3, (2014).
- [C.91] **BOUYER J., HENRY Y., FILLON M.**
"Experimental analysis of the transient performance of thrust bearings during start-up: comparison between flat-land, tapered-land and textured thrust bearings."
 STLE 69th Annual Meeting, Lake Buena Vista, May 18-22, CD, pp. 1-3, (2014).
- [C.92] **FILLON M., WODTKE M., WASILCZUK M.**
"Effect of the presence of the lifting pocket on the THD performance of a large tilting-pad thrust bearing."
 TriboBr-2014, 2nd International Brazilian Conference on Tribology, 3-5 November, Foz do Iguacu, Paraná, Brésil, ISSN: 2179-3956, pp. 1-13, (2014).

- [C.93] **TALA-IGHIL N., FILLON M., BRICK CHAUCHE A., MOKHTARI A.**
"Texturing surface and thermal effects on the hydrodynamic journal bearing performance."
 12th International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2014, Rhodes, Greece, 22-28 September 2014, N° ICNAAM_2014_136, AIP Conf. Proc. 1648, ISSN: 978-0-7354-1287-3, 850076, pp. 1-4, (2015). (DOI: [10.1063/1.4913131](https://doi.org/10.1063/1.4913131))
- [C.94] **CRISTEA A.F., BOUYER J., FILLON M., PASCOVICI M.D.**
"Transient Pressure and Temperature Field Measurements in a Lightly Loaded Circumferential Groove Journal Bearing from Start-up to Steady-State Stabilization."
 STLE 70th Annual Meeting, Dallas, May 17-21, CD, pp. 1-3, (2015).
- [C.95] **BOUYER J., FILLON M., KATSUKI H., SATO Y.**
"Experimental analysis of the influence of materials on the performance of a tilting-pad journal bearing."
 International Tribology Conference, ITC 2015, Tokyo, September 16th-20th, CD, 18pD-01, pp. 364-365, (2015).
- [C.96] **GIRAUDEAU C., FILLON M., HELENE M., BEAURAIN J., BOUYER J.**
"On the influence of the presence of geometrical discontinuities on journal bearing performance under thermohydrodynamic regime."
 14th EDF/Pprime Workshop on "Influence of design and materials on journal and thrust bearing performance", Futuroscope, 8 & 9 octobre, 1-9 pages, (2015).
- [C.97] **BRITO F.P., FILLON M., MIRANDA A.S.**
"Analysis of the Effect of Grooves in Single and Twin Axial Groove Journal Bearings under Varying Load Direction."
 14th EDF/Pprime Workshop on "Influence of design and materials on journal and thrust bearing performance", Futuroscope, 8 & 9 octobre, 1-14 pages, (2015). *Poster*
- [C.98] **PAP B., BAUDUIN L., BECK G., GEDIN P., DREVON F., FILLON M.**
"Deflectional and vibrational behaviour of a highly loaded, high aspect ratio hollow shaft equipped with plain journal bearing at the maximal deformation point."
 14th EDF/Pprime Workshop on "Influence of design and materials on journal and thrust bearing performance", Futuroscope, 8 & 9 octobre, 1-7 pages, (2015). *Poster*
- [C.99] **GIRAUDEAU C., FILLON M., HELENE M., BEAURAIN J., BOUYER J.**
"Experimental study of the influence of scratches on two-lobe journal bearing performance."
 STLE 71st Annual Meeting, Las Vegas, May 15-19, pp. 1-3, (2016).
- [C.100] **TALA-IGHIL N., MOKHTARI A., CHAUCHE A.B., BETTAHAR K., FILLON M.**
"The effect of oil viscosity on the performances of a textured journal bearing."
 5th International Conference on Integrity, Reliability and Failure, IRF 2016, Porto, Portugal, 24-28 July, paper 6262, pp. 1-5, (2016).
- [C.101] **TALA-IGHIL N., FILLON M.**
"Performance evolution of fully and partially textured hydrodynamic journal bearings lubricated with two lubricants."
 13th International Conference on Tribology, Rotrib'16, Galati, Romania, September 22-24, paper 074, pp. 1-6, (2016).
- [C.102] **BRITO F.P., MIRANDA A.S., CLARO J.C.P., FILLON M., TEIXEIRA J.C., COSTA L.**
"On the Relevance of Incorporating Realistic Lubricant Feeding Conditions on the Thermohydrodynamic Analysis of Axially Grooved Hydrodynamic Journal Bearings."
 IBERTRIB 2017 – IX Iberian Conference on Tribology, University of Minho, June 12-13, 2017, Guimarães, Portugal – Extended Abstract, pp. 1-2, (2017). ISBN: 978-972-99596-2-2
- [C.103] **PAP B., FILLON M., GEDIN P., BECK G.**
"Journal bearing with a double conical form – a numerical and experimental study."
 6th World Tribology Congress, WTC'2017, September 17-22, Beijing, China, pp. 1-3, (2017).
- [C.104] **GIRAUDEAU C., BOUYER J., FILLON M., HELENE M., BEAURAIN J.**
"Behavior of a two lobe journal bearing with a scratched shaft: Comparison between numerical results and experimental data."
 6th World Tribology Congress, WTC'2017, September 17-22, Beijing, China, pp. 1-3, (2017).
- [C.105] **PAP B., GUILLEMONT M., FILLON M., GUEUDRY D., GEDIN P., DREVON F., BIADALLA L., BECQUERELLE S.**
"Analysis of bearing seizure of a PTFE central groove journal bearing during start-up period."
 16th EDF/Pprime Workshop on "Behaviour of journal and thrust bearings under transient and mixed lubrication regime", Futuroscope, 5 & 6 octobre, 1-5 pages, (2017).
- [C.106] **CUIS S., GU L., FILLON M., ZHANG C.**
"Effect of partial wall slip on the THD behaviour of high-loaded plain journal bearings."
 18th EDF/Pprime Workshop on "Challenges in Sliding Bearing Technologies for Clean and Low Carbon Energy Applications", Paris Saclay, 10 & 11 octobre, 1-10 pages, (2019). *Poster*

4 Publications in National Journals

- [D.1] **FILLON M., FRENE J., (1990)**
"Lubrification et Frottement."
Matériaux et Techniques, N° 9-10, pp. 35-37.
- [D.2] **NICOLAS D., FILLON M., (1991)**
"Réflexions sur les guidages de machines tournantes."
Mécanique Matériaux Electricité, N° 438, pp 27-30.
- [D.3] **DADOUCHE A., FILLON M., (2000)**
"Analyse Théorique et Expérimentale des Effets Thermiques dans les Butées Hydrodynamiques à Géométrie Fixe."
Mécanique & Industries, ISSN: 2257-7777, eISSN: 2257-7750, Vol. 1, N° 2, pp. 141-150.
- [D.4] **COSTA L., MIRANDA A.S., CLARO J.C.P., FILLON M., (2001)**
"Estudo experimental da influência das condições de alimentação no desempenho de uma chumaceira hidrodinâmica com sulco de alimentação na linha de carga."
Mecânica experimental, N°6, pp. 131-138.
- [D.5] **BRITO F.P., BOUYER J., FILLON M., MIRANDA A.S., (2006)**
"Thermal Behaviour and Performance Characteristics of a Twin Axial Groove Journal Bearing as a Function of Applied Load and oil Supply Temperature."
TRIBOLOGIA, Finnish Journal of Tribology, Vol. 25, N°3, pp. 24-33.
- [D.6] **BRITO F.P., BOUYER J., FILLON M., MIRANDA A.S., (2006)**
"Influência da carga aplicada e da temperatura do óleo de alimentação no desempenho de uma chumaceira radial hidrodinâmica com dois sulcos axiais."
Mecânica Experimental, Vol. 13, pp. 95-104.
- [D.7] **AHMED S.A., FILLON M., (2007)**
"Performances des butées hydrodynamiques à géométrie fixe : influence des effets thermiques et des déformations mécaniques."
Mécanique & Industries, ISSN: 2257-7777, eISSN: 2257-7750, Vol. 8, N° 4, pp. 365-378.
- [D.8] **WODTKE M., FILLON M., WASILCZUK M., (2009)**
"The influence of model simplifications on the predicted performance of hydrodynamic thrust bearings."
TRIBOLOGIA, Polish Journal of Tribology, ISSN: 0208-7774, N°5, pp. 237-245 (in Polish).

5 National Conferences with Proceedings

a) Invited Conferences, keynote, plenary presentation

[E.a1] **FILLON M.**

"Temperature effects in hydrodynamic bearings."

Conférence invitée, 6^{as} Jornadas Portuguesas de Tribologia, Coimbra, Portugal, 18-19 Juin, pp. 3.1-3.14, (1998).

b) Other conferences

[E.1] **FILLON M., SOUCHET D., FRENE J.**

"Etude thermohydrodynamique des paliers à patins oscillants - Influence des déformations thermoélastiques."

9^{ème} Congrès Français de Mécanique, Metz, 5-8 Septembre, Vol. I, pp. 220-221, (1989).

[E.2] **SOUCHET D., FILLON M., FRENE J.**

"Etude thermoélastohydrodynamique des butées à patins oscillants."

10^{ème} Congrès Français de Mécanique, Paris, 2-6 Septembre, pp. 285-288, (1991).

[E.3] **BOUARD L., FILLON M., SOUCHET D., FRENE J.**

"Modélisation thermohydrodynamique dans les films minces en régime turbulent."

11^{ème} Congrès Français de Mécanique, Lille, 6-10 septembre, Vol. 5, pp. 201-204, (1993).

[E.4] **DESBORDES H., FILLON M., FRENE J., CHAN HEW WAI C.**

"Etude non-linéaire des paliers à patins oscillants - Influence des déformations élastiques des patins."

11^{ème} Congrès Français de Mécanique, Lille, 6-10 septembre, Vol. 5, pp. 257-260, (1993).

[E.5] **BOUARD L., FILLON M., FRENE J.**

"Analyse thermohydrodynamique des paliers à patins oscillants en régime turbulent."

12^{ème} Congrès Français de Mécanique, Strasbourg, 4-8 septembre, Vol. 1, pp. 173-176, (1995).

[E.6] **BOUCHOULE C., FILLON M., NICOLAS D., BARRESI F.**

"Etude des effets thermiques dans les paliers à patins oscillants de réducteurs et multiplicateurs de vitesse à engrenages."

12^{ème} Congrès Français de Mécanique, Strasbourg, 4-8 septembre, Vol. 1, pp. 181-184, (1995).

[E.7] **DESBORDES H., FILLON M., FRENE J., CHAN HEW WAI C.**

"Etude dynamique des paliers à patins oscillants - Modélisation du pivot (Influence des déformations élastiques des patins)."

Tribologie et Ingénierie des Surfaces, Actes des Journées de la Société Tribologique Française (S.T.F.'95, Nancy), avec comité de lecture, pp. 211-221, (1996).

[E.8] **MONMOUSSEAU P., FILLON M., FRENE J.**

"Etude transitoire thermoélasto-hydrodynamique dans les paliers à patins oscillants soumis à une charge dynamique."

16^{ème} Congrès Canadien de Mécanique Appliquée, CANCAM'97, Université de Laval (Canada), 1-5 Juin, pp. 127-128, (1997).

[E.9] **COSTA L., CLARO J.C.P., MIRANDA A.S., FILLON M.**

"Influence de la position et de la longueur de la rainure d'alimentation sur le comportement thermohydrodynamique d'un palier lisse."

13^{ème} Congrès Français de Mécanique, Poitiers Futuroscope, 1-5 septembre, Vol. 3, pp. 339-342, (1997).

[E.10] **PIERRE I., FILLON M.**

"Généralisation des effets thermiques dans les glissières hydrodynamiques."

13^{ème} Congrès Français de Mécanique, Poitiers Futuroscope, 1-5 septembre, Vol. 3, pp. 371-374, (1997).

[E.11] **COSTA L., CLARO J.C.P., MIRANDA A.S., FILLON M.**

"Estudo do comportamento termohidrodinâmico de chumaceiras radiais."

6^{as} Jornadas Portuguesas de Tribologia, Coimbra, Portugal, 18-19 Juin, pp. 3.16-3.26 (1998).

- [E.12] **COSTA L., FILLON M., MIRANDA A.S., CLARO J.C.P.**
"Effets des conditions d'alimentation sur les performances thermohydrodynamiques d'un palier lisse : théorie et expérimentation."
 14^{ème} Congrès Français de Mécanique, Toulouse, 30 Août -3 Septembre, CD, 6 pages, (1999).
- [E.13] **DADOUCHE A., FILLON M.**
"Etude des phénomènes thermiques dans les butées hydrodynamiques – Comparaison théorie-expérimentation."
 14^{ème} Congrès Français de Mécanique, Toulouse, 30 Août -3 Septembre, CD, 6 pages, (1999).
- [E.14] **PIERRE I., FILLON M.**
"Effets thermiques dans les glissières hydrodynamiques – Domaine de validité de la modélisation bidimensionnelle."
 14^{ème} Congrès Français de Mécanique, Toulouse, 30 Août -3 Septembre, CD, 6 pages, (1999).
- [E.15] **BOUYER J., FILLON M.**
"Etude expérimentale de l'influence du mésalignement sur les effets thermiques dans les paliers hydrodynamiques."
 Actes des Journées Francophones de Tribologie JFT'2000, Besançon (3-4 Mai 2000), SIRPE, Paris, pp. 147-154, (2002).
- [E.16] **COSTA L., MIRANDA A.S., CLARO J.C.P., FILLON M.**
"Estudo experimental da influência das condições de alimentação no desempenho de uma chumaceira hidrodinâmica com sulco de alimentação na linha de carga."
 7th Portuguese Conference on Tribology, Porto, Portugal, 29-30 Juin, pp. 59-62, (2000).
- [E.17] **BOUYER J., FILLON M.**
"Experimental Study on Thermal Effects of a Misaligned Hydrodynamic Journal Bearing."
 7th Portuguese Conference on Tribology, Porto, Portugal, 29-30 Juin, pp. 63-66, (2000).
- [E.18] **BOUYER J., FILLON M.**
"Effets du mésalignement sur les performances d'un palier hydrodynamique – Aspects expérimentaux."
 15^{ème} Congrès Français de Mécanique, Nancy, 3-7 Septembre, CD, 6 pages, (2001).
- [E.19] **FRENE J., FILLON M., NICOLAS D.**
"Lubrification hydrodynamique des paliers de ligne d'arbre."
 Journées GST Tribologie, CETIM Senlis, 28-30 Mai, pp. 100-120, (2002).
- [E.20] **BOUYER J., FILLON M.**
"Influence des déformations élastiques et des effets thermiques sur les performances d'un palier hydrodynamique soumis à de très fortes charges."
 16^{ème} Congrès Français de Mécanique, Nice, 1-5 Septembre, CD, 6 pages, (2003).
- [E.21] **DOBRICA M., FILLON M.**
"Analyse numérique du régime THD dans un patin échelon – Comparaison entre les modèles de Reynolds et de Navier-Stokes."
 17^{ème} Congrès Français de Mécanique, Troyes, 29 Août – 2 Septembre, CD, n°295, 6 pages, (2005).
- [E.22] **AHMED S.A., FILLON M.**
"Etude des effets thermiques et des déformations mécaniques sur les performances des butées hydrodynamiques à géométrie fixe."
 18^{ème} Congrès Français de Mécanique, Grenoble, 27-31 Août, CD, n°0133, 6 pages, (2007).
- [E.23] **DOBRICA M., FILLON M., PASCOVICI M., CICONE T.**
"Influence des surfaces texturées sur les performances hydrodynamiques d'un blochet."
 18^{ème} Congrès Français de Mécanique, Grenoble, 27-31 Août, CD, n°1158, 6 pages, (2007).
- [E.24] **TALA IGHIL N., MASPEYROT P., FILLON M., BOUNIF A.**
"Influence de la répartition des textures sur les performances d'un palier lisse."
 Actes des Journées Francophones de Tribologie JFT'2007, Lubrification et tribologie des revêtements minces, Presses Polytechniques et Universitaires Romandes, pp. 21-29, (2010).
- [E.25] **AHMED S.A., FILLON M.**
"Effets des déplacements mécaniques sur les caractéristiques des butées hydrodynamiques à géométrie fixe : influence de l'épaisseur du collet."
 Actes des Journées Francophones de Tribologie JFT'2007, Lubrification et tribologie des revêtements minces, Presses Polytechniques et Universitaires Romandes, pp. 31-40, (2010).
- [E.26] **GIRAUDEAU C., FILLON M., HELENE M., BEAURAIN J., BOUYER J.**
"Etude de paliers hydrodynamiques présentant de fortes discontinuités géométriques."
 22^{ème} Congrès Français de Mécanique, Lyon, 24-28 Août, CD, 8 pages, (2015).
- [E.27] **FOUFLIAS D., CHARITOPOULOS A., PAPAPOPOULOS C., KAIKTSIS L., FILLON M.**
"Analysis of the tribological performance of thrust bearings with artificial surface roughness."
 Vasilis Papazoglou - Honorary Publication for NTUA Professor, pp. 445-455, NTUA Edition, Athens (2016) (*in Greek*).

6 Communications & International Conferences without Proceedings

a) Invited Conferences, keynote, plenary presentation

- [F.a1] **FILLON M.**
"Thermal effects in hydrodynamic journal and thrust bearings."
Conférence invitée, Congrès International sur la Mécanique Avancée CIMA'2010, Annaba, Algérie, 23-25 May, Séance plénière, pp. 55, (2010).
- [F.a2] **FILLON M., DOBRICA M.**
"Influence of scratches on journal bearings performances: parametric and case studies."
National Tribology Conference (NTC-2011), Roorkee, India, 8-10 December, (2011).
- [F.a3] **FILLON M.**
"A review of current friction reduction technologies – Prospects for marine applications."
1st MARINELIVE Conference -on "All Electric Ship" Session: Friction Reduction in Marine Propulsion Systems, Athens, Greece, 3-5 May (2012).
- [F.a4] **FILLON M.,**
"Textured surface effects in hydrodynamic slider, journal and thrust bearings."
Workshop à l'Université de Badji Mokhtar, Annaba, Algérie, 2-3 June, (2013).
- [F.a5] **FILLON M.**
"Effects of Artificial Surface Texturing on the Frictional Characteristics of Hydrodynamically Lubricated Thrust Bearings."
2nd MARINELIVE Conference -on "All Electric Ship", Athens, Greece, 12-13 February (2014).
- [F.a6] **FILLON M.**
"TEHD Performance of tilting-pad journal bearings under transient regime."
9th IFToMM International Conference on Rotor Dynamics IFToMM ICORD 2014, Milan, Italy, 22-25 September, (2014).
- [F.a7] **FILLON M., FRENE J., BOUYER J.**
"Historical aspects and recent development on friction in hydrodynamic lubrication."
International Scientific Symposium "Hydrodynamic Lubrication Theory XXI", Oryol, Russia, May 26-28, (2016).
- [F.a8] **FILLON M.**
"Influence of thermal effects and solid deformations on the performance of hydrodynamic tilting-pad bearings."
Rotrib' 16, Galati, Romania, September 22-24, Plenary session, (2016).
- [F.a9] **FILLON M.**
"Past studies and recent developments on hydrodynamic journal and thrust bearings."
ECOTRIB 2017, Ljubljana, Slovenia, 7-9 June 2017, Plenary session, (2017).
- [F.a10] **FILLON M.**
"Influence of surface texturing in hydrodynamic bearings."
BALTRTRIB 2017, Kaunas, Lithuania, 16-17 November 2017, Plenary session, (2017).
- [F.a11] **FILLON M.**
"Analysis of heavily loaded bearings operating under mixed lubrication regime."
MultiScience - XXXII. microCAD, International Multidisciplinary Scientific Conference, 05-06 September 2018, Miskolc, Hungary, (2018).
- [F.a12] **FILLON M.**
"Analysis of textured surface influence in hydrodynamic lubrication - Application to slider and thrust bearings."
MultiScience - XXXII. microCAD, International Multidisciplinary Scientific Conference, 05-06 September 2018, Miskolc, Hungary, (2018).
- [F.a13] **FILLON M.**
"Past, Present and Future of hydrodynamic Lubrication."
ASIATRIB-2018, 6th Asia International Conference On Tribology, 17-20 September 2018, Kuching, Sarawa,- Malaysia, (2018).
- [F.a14] **FILLON M.**
"Influence of surface texturing and type of material on hydrodynamic sliding bearing performance."
TriboBr-2018, 3rd International Brazilian Conference on Tribology, 3-5 December 2018, Florianópolis, Brazil, (2018).
- [F.a15] **FILLON M.**
"About recent developments on hydrodynamic sliding bearings."
TriboIndia-2018, International Indian Conference on Tribology, 13-15 December 2018, Mumbai, India, (2018).
- [F.a16] **FILLON M.**
"Is surface texturing really efficient in hydrodynamic sliding bearings?"
Wind Turbine Bearings, 2nd International Conference, 13-15 May 2019, Hamburg, Germany, (2019).
- [F.a17] **FILLON M., CHARITOPOULOS A., PAPADOPOULOS C. I.**
"Parallel surface thrust bearings: how a thin lubricating fluid film can support a load?"
ECOTRIB'2019, 7th European Conference on Tribology, 12-14 June 2019, Vienna, Austria, (2019).
- [F.a18] **FILLON M.**
"Experiments & Validation in Hydrodynamic Journal and Thrust Bearings."
1st NWPU Xi'An – INSA Lyon Tribology Workshop, 3-5 July 2019, Xi'An, China, (2019).

[F.a19] FILLON M.

"Robotics activities at Pprime Institute & Historical aspects and recent development on friction in hydrodynamic lubrication."
4th "Intelligent Robot" International Summer School, HIT, Harbin Institute of Technology, 7-26 July 2019, Harbin, China, (2019).

[F.a20] FILLON M.

"Guidance for Authors and Readers: Encouragement of Young Researchers to grow."
Plenary Panel Session, ITC Sendai 2019, International Tribology Conference, Sendai, Japan, 17-21 September, (2019).

[F.a21] FILLON M., CHARITPOPOULOS A., PAPADOPOULOS C. I.

"Influence of deformations and geometrical defects on hydrodynamic textured or untextured surface sliding bearing performance."
Keynote Session, K-Trib2020, 2nd Korea-Tribology International Symposium, Online Symposium, November 29 – December 2, 2020, Seoul, Korea, (2020).

b) Other conferences

- [F.1] **BONCOMPAIN R., FILLON M., FRENE J.**
"Analysis of thermal effects in hydrodynamic bearings."
ASME/ASLE Joint Tribology Conference, 8-10 Octobre, Atlanta, USA, 6 pages, (1985).
- [F.2] **FRIOU T., FRENE J., FILLON M.**
"Analysis of thermal effects in hydrodynamic bearings. Theory and experiments."
19th International Symposium on Lubrication Engineering, TRIBO'88, 17-19 Mai, Allemagne de l'Est, 23 pages, (1988).
- [F.3] **FILLON M., FRENE J., BONCOMPAIN R., FRIOU T.**
"Thermal effects in hydrodynamic bearings."
Workshop on Thermal Problems in Tribology, 19-20 Mai, Atlanta, USA, 10 pages, (1988).
(les principaux points de l'exposé ont été publiés dans le livre de O. PINKUS, « *Thermal Aspects of Fluid Film Tribology* », ASME Press, New York, 1990)
- [F.4] **FILLON M., SOUCHET D., FRENE J.**
"Thermal and elastic effects on tilting-pad bearings."
TRIBOLOGIA'90, 2-3 Octobre, Sofia, Bulgarie, (1990).
- [F.5] **FILLON M., BLIGOUD J.C., FRENE J.**
"Experimental study of tilting-pad journal bearings - Comparison with theoretical thermoelastohydrodynamic results."
STLE/ASME Tribology Conference, 13-16 Octobre, Saint Louis, 9 pages, (1991).
- [F.6] **DESBORDES H., FILLON M., CHAN HEW WAI C., FRENE J.**
"Dynamic analysis tilting-pad journal bearings - Influence of pad deformations."
STLE-ASME Tribology Conference, New-Orleans, 24-27 octobre (1993).
- [F.7] **DESBORDES H., FILLON M., FRENE J., CHAN HEW WAI C.**
"The effects of three-dimensional pad deformations on tilting-pad journal bearings under dynamic loading."
STLE-ASME Tribology Conference, Maui, 16-19 octobre (1994).
- [F.8] **FILLON M., DESBORDES H., FRENE J., CHAN HEW WAI C.**
"A global approach of thermal effects including pad deformations in tilting-pad journal bearings submitted to unbalance load."
STLE-ASME Tribology Conference, 95-TRIB-10, Orlando, 8-11 octobre (1995).
- [F.9] **BOUARD L., FILLON M., FRENE J.**
"Thermohydrodynamic analysis of tilting-pad journal bearings operating in turbulent flow regime."
STLE-ASME Tribology Conference, 95-TRIB-19, Orlando, 8-11 octobre (1995).
- [F.10] **BOUCHOULE C., FILLON M., NICOLAS D., BARRESI F.**
"Experimental study of thermal effects in tilting-pad journal bearings at high operating speeds."
STLE-ASME Tribology Conference, 95-TRIB-49, Orlando, 8-11 octobre (1995).
- [F.11] **FILLON M., KHONSARI M.M.**
"Thermohydrodynamic design charts for tilting-pad journal bearings."
STLE-ASME Tribology Conference, 95-TRIB-20, Orlando, 8-11 octobre (1995).
- [F.12] **KHONSARI M.M., JANG J.Y., FILLON M.**
"On the generalization of thermohydrodynamic analyses for journal bearings."
STLE-ASME Tribology Conference, 95-TRIB-57, Orlando, 8-11 octobre (1995).
- [F.13] **MONMOUSSEAU P., FILLON M., FRENE J.**
"Transient thermoelastohydrodynamic study of tilting-pad journal bearings - Comparison between experimental data and theoretical results."
STLE-ASME Tribology Conference, 96-TRIB-29, San Francisco, 13-17 octobre (1996).
- [F.14] **MONMOUSSEAU P., FILLON M., FRENE J.**
"Transient thermoelastohydrodynamic study of tilting-pad journal bearings under dynamic loading."
ASME Turbo Expo'97 - Land, Sea and Air, IGTI, 97-GT-400, Orlando, 2-5 Juin, (1997).
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"Validation of Reynolds Equation in lubricated contact –Application to the mixed lubrication regime analysis in heavily loaded bearings."
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8 Courses, Lectures et Seminars

- [H.1] **FILLON M.**
"Etude thermoélastohydrodynamique des paliers à patins oscillants."
POLITEHNICA University of Bucharest, Romania, March, (1993).
- [H.2] **FILLON M.**
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Texas A&M University, College Station, USA, September, (1995).
- [H.3] **FILLON M.**
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Texas A&M University, College Station, USA, October, (1995).
- [H.4] **FILLON M.**
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Réunion du groupe de travail « Interaction fluide structure machines tournantes » de la SHF, Futuroscope, France, October, (1996).
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Université de Delaware, Newark, USA, May, (1997).
- [H.7] **FILLON M.**
"The transient thermal effects in tilting-pad journal bearings: application to start-up and bearing seizure."
Université de Tokyo, Japan, December, (1998).
- [H.8] **FILLON M.**
"Le problème des effets thermiques dans les paliers hydrodynamiques durant les phases de démarrage."
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- [H.9] **FILLON M.**
"The importance of thermal effects in fluid film bearings."
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Université de Rennes 1, IRMAR, France, March, (2002).
- [H.12] **FILLON M.**
"Etudes sur la lubrification hydrodynamique des paliers et des butées."
CETIM, Senlis, France, April, (2002).
- [H.13] **FILLON M.**
"Thermal effects of misaligned plain journal bearings: theory and experimentation."
Gdansk University of Technology, Poland, April, (2003).
- [H.14] **FILLON M.**
"The risk of seizure of tilting-pad journal bearings during start-up."
Gdansk University of Technology, Poland, April, (2003).
- [H.15] **FILLON M.**
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- [H.16] **FILLON M.**
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"Les performances THD des paliers hydrodynamiques usés."
POLITEHNICA University of Bucharest, Romania, June, (2004).
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"The risk of seizure of tilting-pad journal bearings during start-up."
National Research Council, Ottawa, Canada, September, (2005).

- [H.20] **FILLON M.**
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 Michell Bearings, Newcastle-upon-Tyne, United-Kingdom, February, (2006).
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 DANA, Rugby, United-Kingdom, February, (2006).
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"The effects of misalignment on plain journal bearing performance."
 University of New South Wales, Sydney, Australia, December, (2006).
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 CETIM, Senlis, France, March, (2008).
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 Elmer Lindseth Lecturer (Colloquium series), Cornell University, Ithaca, USA, April, (2008).
- [H.25] **FILLON M.**
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 Northwestern University, Evanston, USA, April, (2008).
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 Universit  POLITEHNICA de Bucurest, Romania, June, (2008).
- [H.27] **FILLON M.**
"Mixed lubrication regime analysis in heavily loaded bearings."
 Mini-symposium "Models, Methods and Applications in Lubrication Analysis", University of Vigo, Vigo, Spain, March, (2009).
- [H.28] **FILLON M., DOBRICA M.**
"Influence of scratches on the behavior of a partial journal bearing."
 Gdansk University of Technology, Poland, June, (2009).
- [H.29] **FILLON M.**
"Research activities at the Laboratory of Solid Mechanics."
 Idemitsu Kosan Co, Chiba, Japan, September, (2009).
- [H.30] **FILLON M.**
"Mixed lubrication in journal bearings & TEHD analysis of PTFE-faced tilting pad thrust bearings."
 Daido Metal Co, Inuyama, Japan, September, (2009).
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- [H.32] **FILLON M.**
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 National Technical University of Athens, Athens, Greece, December, (2012).
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"The effect of wear in Hydrodynamic Journal Bearings."
 National Technical University of Athens, Athens, Greece, December, (2012).
- [H.34] **FILLON M.**
"Ways of reducing the bearing power losses – Effects of surface texturing."
 University of Patras, Patras, Greece, December, (2012).
- [H.35] **FILLON M.**
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 University of Sumy, Ukraine, April, (2013).
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