

Publications by Dr Alex K Molyneux

- A K Molyneux:** Pneumatic Instability in Externally Pressurised Pocketed Orifice Gas Bearings.
Report ME/82/4, March 1982.
Dept of Mechanical Engineering, University of Southampton.
- A K Molyneux:** Theoretical and Empirical Evaluation of Spiral Grooved Grease Bearings.
Proc. US/UK Fluid Film Bearing Meeting, April 1986.
Organised by ASWE, UK.
- A K Molyneux:** The Theoretical Performance of a Blocked-Centre Spiral Groove Bearing.
Mechanical Engineering Consultancy Service report 82/525.
Aug 1984, Dept of Mech. Engineering, University of Southampton.
- A K Molyneux:** The Design of Lubricant Recirculation Hydrodynamic Spiral Groove Bearings using Grease Lubricants.
PhD Thesis, July 1983.
Dept of Mechanical Engineering, University of Southampton.
- A K Molyneux, M T Thew, R A Farrar:** Evaluation of Face Seal Materials for Car Water Pump Seals.
Mechanical Engineering Consultancy Service report 83/560.
April 1984 Dept of Mech. Engineering, University of Southampton.
- C Clifton, **A K Molyneux, M T Thew, R A Farrar:**
Variation of Performance of Automotive Water Pump Seals with Change in Face Materials.
Proc. 10th Int. Conf. on Fluid Sealing, Innsbruck, April 1984.
Organised by BHRA, UK.
- A K Molyneux, M Leonhard:** Design of a 350000 rpm Cryogenic Expander using Spiral Groove Gas Bearings.
7th Annual ROMAC Meeting, San Diego, June 1987.
Organised by University of Virginia, USA.
- A K Molyneux, M Leonhard:** The Use of Spiral Groove Gas Bearings in a 350000 rpm Cryogenic Expander.
Presented at the 43rd Annual Meeting of STLE, Cleveland, Ohio.
Published in Tribology Transactions 1989.
- A K Molyneux:** The Application Of Spiral Groove Gas Bearings in High Speed Cryogenic Applications
Belgium Society Of Engineers Conference, Oct 1990, Brussels.
Oct 1990 Belgium Soc

A K Molyneaux: RotorDynamic and Hydrodynamic Bearing Analysis Program.
Manual for Computer software RotorD40,
Kinetic Engineering Ltd, Nov 1992.

A K Molyneaux: Ceramic Spiral Groove Bearings in Oil Free Compressors.
Paper presented at IMechE seminar on 'Bearings for Pumps, Fans
and Compressors', 14th Oct 1993, London.

A K Molyneaux: Discussion on paper 'Dynamic performance of oil-lubricated
helical groove journal bearings'.
Jnl. of Engineering Tribology, Proc. IMechE, vol 208 1994, London.

A K Molyneaux, R Zanelli: Interim Progress Report on the Development of
an Oil-Free Scroll Compressor for Heat Pump Applications.
LENI report, Dec 1995.
EPFL, Lausanne, Switzerland.

A K Molyneaux: Hybrid Bearings for Oil-Free Heat Pump Applications using
Refrigerant r134a as Lubricant..
Paper presented at 1996 Purdue Compressor Conference.
Purdue, USA.

F Maréchal; A Boulaïch, D Favrat : P Krummenacher; **A K Molyneaux,**
Promotion de l'utilisation rationnelle de l'énergie dans l'industrie par PINCHLENI
LENI report, 2002.
EPFL, Lausanne, Switzerland

J Schiffmann, D Favrat, **A K Molyneaux:** Theoretical Design of a High Speed,
Oil Free Radial Compressor for Domestic Heat Pumps
8th International Energy Agency, Heat Pump Conference 2005.
Las Vegas, USA.

A K Molyneaux, D Ainsworth, C A Davies: POWER GENERATION APPARATUS.
Patent , WO02090721, Nov 2002.

A K Molyneaux, D Ainsworth, C A Davies: ROTORS FOR ELECTROMAGNETIC MACHINES
Patent , WO03092140, Nov 2003.

A K Molyneaux, D Ainsworth, C A Davies: Fuel compressor system for a gas
turbine.
Patent , GB2395753, June 2004.

A K Molyneaux, et al: POWER GENERATION AND ENERGY RECOVERY SYSTEMS AND METHODS
Patent , WO2008124868 (A1) Oct 2008.

A K Molyneaux, Andreas Lehr; Patrick Bon: GAS LASER HAVING RADIAL AND AXIAL GAS BEARINGS
Patent , WO2011095400 Aug 2011.

For further information about any of the above publications please contact
Dr Alex Molyneaux at alex.molyneaux@ofttech.com or visit www.ofttech.com