

# Konstantinos Panagiotidis

## Curriculum Vitae

### 1. Personal Data

Birthday : August 21, 1955  
Place of birth : Thessaloniki  
Citizenship : Greek  
Marital status : Married  
Address : Laboratory of Machine Elements and Machine Design  
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### 2. Education

1973-1978 Dept. of Mech. Engineering, Aristotle University Thessaloniki  
2003 PhD Thesis at the Dept. of Mech. Engineering, Aristotle University Thessaloniki.

### 3. Principal Fields of Interest

Computational Methods, Finite Elements Method, Computer Aided Design - Engineering (CAD/CAE), Tribology and Thermo-elastohydrodynamic lubrication

### 4. Memberships

- Technical Chamber of Greece.
- Balkan Tribological Association

### 5. Academic positions

*Current Position:*

2004-today: Lecturer, Lab of Machine Elements and Machine Design, Dept. of Mech. Engineering, Aristotle University of Thessaloniki – <http://lmemd.meng.auth.gr>

1982-2004 : Research Assistant, Dept. of Mech. Engineering, Aristotle University Thessaloniki.

### 6. Teaching Experience

Machine Elements I, Tribology, Finite Element Method, Mathematical Elements for CAD Systems, CAD-CAE Integration

### 7. Publications

- 11 Papers published in International Journals
- 11 Papers published in International Conferences

#### 7.1 Scientific Journals

- 7.1.1 Grekoussis R., K. Panajiotidis: Entlastungsnutzen am Wellenabsatz. Konstruktion 35 (1983), S.387-390.
- 7.1.2 A. Mihailidis, J. Retzepis, C. Salpistis, K. Panajiotidis: Calculation of friction coefficient and temperature field of line contacts lubricated with a non-Newtonian fluid, Wear 232 (1999), 213-220.

- 7.1.3 A. Mihailidis, K. Panajiotidis, V. Bakolas: Thermal Elastohydrodynamic Analysis of Line Contacts Lubricated with a non-Newtonian Fluid. *Journal of the Balkan Tribological Association* 6 (2000), 27-26.
- 7.1.4 A. Mihailidis, K. Panagiotidis: Transient Thermo-Elastohydrodynamic Lubrication of Gear Teeth, *Lubrication Science* 15, (2003), 295-310.
- 7.1.5 Μιχαηλίδης Α., Παναγιωτίδης Κ., Δριβάκος Ν., 2003, Επίδραση των Θερμικών Ιδιοτήτων του Λιπαντικού στην Ελαστοϋδροδυναμική Λίπανση Οδοντωτών Τροχών, *Τεχν. Χρον., Επιστ. Εκδ. ΤΕΕ, ΙΩ* (2003), τεύχ. 1-2.
- 7.1.6 Mihailidis A., Drivakos N., Salpistis C., Panagiotidis K., Experimental Investigation of the Lubrication of Opposite Running Disks, *Journal of the Balkan Tribological Association*, Vol. 11, No 3 (2005), 419-428.
- 7.1.7 Mihailidis A, Salpistis C., Panagiotidis K., Sachanas C., Gatsios S., Wear of machine elements made from powder metallurgical tool steels, *Journal of the Balkan Tribological Association*, Vol. 14 (2008), No 4, 453-462.
- 7.1.8 Mihailidis A, Salpistis C., Panagiotidis K., Sachanas C., Gatsios S., Wear of machine elements made from powder metallurgical tool steels, *Tribology in Industry* 30 (2008), No. 1 & 2, pp. 40-46
- 7.1.9 Mihailidis A., Salpistis C, Panagiotidis K., Sachanas C., Gatsios S., Scuffing resistance of machine elements made from powder metallurgical tool steels, *Journal of the Balkan Tribological Association*, Vol. 14 (2008) No. 4, 440-452.
- 7.1.10. Mihailidis A., Bakolas V., Panagiotidis, K., Poulis K., Sachanas C., Influence of the Bushing Geometry on the Thermohydrodynamic Performance of a Misaligned Journal Bearing, *ProclMEng, Part J, Journal of Engineering Tribology* 224(1) 2010, pp. 37-53.
- 7.1.11 **Mihailidis**, A., Salpistis, C., Panagiotidis, K., Sachanas, C., Gatsios, S., Hoffinger, C. and Bakolas, V. 'Wear and smearing resistance of black iron mixed oxide coated steels', *Int. J. Surface Science and Engineering*, Vol. 4 (2010), Nos. 4/5/6, pp.337–359.

## 7.2 International Conferences

- 7.2.1 Mihailidis, A., J. Retzepis, C. Salpistis and K. Panajiotidis: Calculation of Friction Coefficient and Temperature Field of Line Contacts Lubricated with a non-Newtonian Fluid. *Proceedings of the 8th international Conference on Tribology Nordtrib '98*, Aarhus, Denmark, 1998, pp. 343-350.
- 7.2.2 A. Mihailidis, K. Panajiotidis, V. Bakolas: Thermal Elastohydrodynamic Analysis of Line Contacts Lubricated with a non-Newtonian Fluid, *Proceedings of the 3rd International Conference on Tribology BALKANTRIB '99*, 315-323.
- 7.2.3 A. Mihailidis, K. Panagiotidis: Transient Thermo-Elastohydrodynamic Lubrication of Gear teeth, *Proceedings of the 2nd World Tribology Congress*, Vienna Austria 2001.
- 7.2.4 A. Mihailidis, K. Panagiotidis, N. Drivakos: Influence of lubricant properties on elastohydrodynamic lubrication. *Proceedings of the 4th International Conference on Tribology "Balkantrib 2002"*, Kayseri, Turkey, 2002, pp. 41-48.
- 7.2.5 A. Mihailidis, V. Bakolas, K. Panagiotidis, N. Drivakos: Prediction of the friction coefficient of Spur Gear Pairs. *VDI-Berichte Nr. 1665*, 2002, pp. 705-719.
- 7.2.6 Mihailidis A., Salpistis C., Drivakos N., Panagiotidis K., 2003, Friction behavior of FVA reference mineral oils obtained by a newly designed two disk test rig. *Proc. of the Int. Conf. on Power Transmissions*, Varna, Bulgaria, pp. 32-37.
- 7.2.7 Mihailidis A, Drivakos N., Salpistis C., Panagiotidis K., 2005, Experimental investigation of the lubrication of opposite running disks. *Proceedings of the 5th International Conference on Tribology*, Kragujevac, Serbia and Montenegro, pp. 602-609.
- 7.2.8 Mihailidis A, Salpistis C., Panagiotidis K., Sachanas C., Gatsios S., Wear of machine elements made from powder metallurgical tool steels, "Balkantrib 08", Sozopol, Bulgaria 2008.
- 7.2.9 Mihailidis A, Salpistis C., Panagiotidis K., Sachanas C., Gatsios S., Resistance against wear of black oxide coated steels, *Proceedings of the 7th International Conference "The Coatings in Manufacturing Engineering"*, Kallithea, Greece, 2008, pp 317-326.
- 7.2.10 A. Mihailidis, V. Bakolas, K. Panagiotidis, C. Sachanas, Thermo-hydrodynamic simulation and comparison of hourglass profiled journal bearings operating under misalignment, *Proc. of the 3rd Int. Conference "Power Transmissions '09"*, Kallithea, Greece, 2009, pp. 461-471.
- 7.2.11 A. Mihailidis, K. Panagiotidis, G. Karaoglanidis, I. Nerantzis, I. Makropoulou, Experimental evaluation of a CVT system for wind energy converters, *Proc. of the 3rd Int. Conference "Power Transmissions '09"*, Kallithea, Greece, 2009, pp. 519-526.