

Curriculum Vitae



Dr Jonathan Leong

Lecturer

UC

Tel : +65 6248 0133

Education Qualifications

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| 2013 | PhD (Mechanical Engineering), NUS – Imperial College Joint PhD Programme |
| 2008 | B.Eng (2nd Upper Honours), National University of Singapore |

Membership & Professional Activities

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| 2008 | Member of the STLE (Society of Tribologists and Lubrication Engineers) |
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Research Interests

- Tribology, Lubrication, MEMS

Selected Publications

- Leong Y. Jonathan, N. Satyanarayana and Sujeet K. Sinha, A tribological study of Multiply-Alkylated Cyclopentanes and Perfluoropolyether lubricants for application to Si-MEMS devices, Tribology Letters, 2013, 50, p. 195-206
- J. Y. Leong, T. Reddyhoff, S. K. Sinha, A. S. Holmes, H. A. Spikes, Hydrodynamic Friction Reduction in a MAC-Hexadecane Lubricated MEMS Contact, Tribology Letters, 2013, 49(1): p. 217-225
- L. Y. Jonathan, N. Satyanarayana and S. K. Sinha., "Localized Lubrication of Micromachines – A Novel Method of Lubrication on Micromechanical Devices", in "Nano-Tribology and Materials Issues in MEMS" (Eds: S. K. Sinha, N. Satyanarayana and S. C. Lim), Springer-Verlag, Berlin, Germany, 2012, In Press.
- Hongbin Y., Guangya Z., Sinha S. K., Leong J. Y., Fook Siong Chau, Characterization and Reduction of MEMS Sidewall Friction Using Novel Microtribometer and Localized Lubrication Method, Journal of Microelectromechanical Systems, 2011. 20(4): p. 991-1000.

Sinha, S. K., Jonathan, L. Y., Satyanarayana, N., Yu, H., Harikumar, V. and Zhou, G. (2010). "Method of applying a lubricant to a micromechanical device." U.S. Patent Publication US 2013/0071629 A1, Published March 21 2013

Jonathan, L. Y., Harikumar, V., Satyanarayana, N. and Sinha, S. K. (2010). Localized lubrication of micromachines: A feasibility study on Si in reciprocating sliding with PFPE as the lubricant, *Wear* 270 (1-2): 19-31.

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