

Curriculum Vitae



Dr Jonathan Leong

Head, Event Management Programme
School of Science & Technology

Tel : +65 6248 0133

Education Qualifications

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

Membership & Professional Activities

- | | |
|------|--|
| 2020 | Chairperson, STLE Annual Meeting Nanotribology Education Committee |
| 2020 | MonsoonSIM ERM Challenge Organising Committee (Host Institution) |
| 2019 | Chairperson, STLE Annual Meeting Nanotribology Education Committee |
| 2018 | MonsoonSIM ERM Challenge Organising Committee (Host Institution) |
| 2018 | Chairperson, STLE Annual Meeting Nanotribology Education Committee |
| 2017 | Member, STLE Annual Meeting Nanotribology Education Committee |
| 2017 | Member, STLE Annual Meeting Nanotribology Technical Committee |
| 2016 | Member, STLE Annual Meeting Nanotribology Technical Committee |
| 2016 | MonsoonSIM Certified Trainer |
| 2008 | Member of the STLE (Society of Tribologists and Lubrication Engineers) |

Research Interests

- Tribology, Lubrication, MEMS

Selected Publications

Jonathan, Leong Y.; Laik, Ma Nang. Using Experiential Learning Theory to Improve Teaching and Learning in Higher Education. European Journal of Social Science Education and Research, [S.I.], v. 6, n. 1, p. 123-132, June 2019. ISSN 2312-8429.

- Chang, Luke Peh Lu; Toor, Shamas ur Rehman; Jonathan, Leong Y.. The Role of Scientific Terminology and Metaphors in Management Education. *European Journal of Social Science Education and Research*, [S.I.], v. 6, n. 1, p. 33-43, apr. 2019. ISSN 2312-8429.
- 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.

Updated on 20 August 2020