

## **PERSONAL INFORMATION**

Name : SYAHRULLAIL SAMION  
Address : Faculty of Mechanical Engineering, Universiti  
Teknologi Malaysia, 81310 UTM, Skudai, Johor, Malaysia.  
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## **EDUCATION BACKGROUND**

Doctorate : April 2004 to March 2007, Kagoshima University, Japan  
Master : April 2000 to March 2002, Kagoshima University, Japan  
Bachelor : April 1996 to March 2000, Kagoshima University, Japan

## **WORKING EXPERIENCE**

Jan 2003 to present: Lecturer, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia.  
May 2002 to Jan 2003: Mechanical Engineer, Matsushita Audio Video (M) Ptd. Ltd.

## **EXPERTISE**

Tribology in Metal Forming  
Friction and wear test (Tribotester)  
Bio-lubricant  
Palm Oil as Lubricant  
Fluid Mechanics

## **TEACHING**

Mechanic of fluids (Undergraduate course)  
Research methodology (Master course)  
Laboratory work/subject  
Tutorials class

## **SUPERVISION** (as main supervisor)

Undergraduate : 32 graduated, 6 on-going  
Master : 5 graduated, 7 on-going  
Doctorate : 1 graduated, 4 on-going

## **PROFESSIONAL MEMBERSHIP**

Registered with Board of Engineers Malaysia (BEM)  
Member of The Institution of Engineers Malaysia (IEM)  
Member of Japanese Society of Tribologist (JAST)  
Member of The Japanese Society for Technology of Plasticity (JSTP)  
Member of Japan Institute of Light Metal (JILM)  
Member of MyTribos

## **AWARDS**

Distinction Service Award, Universiti Teknologi Malaysia, 2006  
Distinction Service Award, Universiti Teknologi Malaysia, 2009  
Best Paper Award (Bronze) in ASEAN Conference on Scientific and Social Science Research (ACSSSR 2011)  
Outstanding Paper Awards in The 4<sup>th</sup> International Meeting on Advances in Thermofluids (IMAT 2011)

## **PROFESSIONAL SERVICES**

### University :

Committee member of FKM promotion  
Committee member for the 4<sup>th</sup> Asian International Conference of Fluid Machinery (AICFM2009)  
Committee member for FKM 2009 annual report  
Committee member for UTM Innovation & Creativity Festival  
Committee member for Konsortium Perisian Terbuka  
Committee member of FKM colloquium  
Committee member of UTM promotion group  
Committee member for Jom Masuk U  
Coordinator for course Mechanic of Fluids (I and II)  
Coordinator for fluid mechanics laboratory  
Coordinator for part-time master programme of FKM  
Faculty supervisor for student practical training  
Interviewer for Zamalah Scholarship UTM  
Interviewer for Degree ++ program  
Moderator for SME1902  
Moderator for bengkel kejuruteraan  
Evaluator for UTM Research University Grant Scheme  
Examiner for viva in FKM, UTM  
Invited for speech in Majlis Cetusan Pemikiran, Majlis Professor UTM  
Member of the MoU with Kagoshima University, Japan.  
Leader of the MoU with Orec Ind Sdn Bhd  
Chief Editor for Special Edition on Latest Trend in Fluid Mechanics Exploration

### National :

External Examiner for Master (Research) from Universiti Kebangsaan Malaysia  
External Examiner for Master (Research) from Universiti Sains Malaysia.  
Secretary for the 4<sup>th</sup> International Meeting on Advances in Thermofluids IMAT2011  
Editorial Board of Journal of Mechanical Engineering and Technology, UTEM

### International :

Reviewer for Scientia Iranica  
Reviewer for Journal of Material Science and Engineering C  
Reviewer of Engineering Science and Technology (JESTEC)  
Reviewer for Journal of MPOB

## **RESEARCH**

### Research theme:

Conducting research in bio-lubricant, tribology in metal forming, micro-pitting, palm oil as lubricant, fluid flows.

### Research grant:

The effect of micro-pits density in reducing friction force

Grant of Research University

01/05/2012-30/04/2013

Project leader, RM 40,000.00

Exploring new technique of articulation for wrist replacement implant

ERGS

01/08/2011-31/07/2013

Project leader, RM 99,000.00

Design and development of drag chute for Malaysia aircraft

Grant of Research University

01/04/2011-31/03/2013

Members, RM 128,000.00

Swirl optimization study on burner system performance utilizing multiple swirls inlet

Grant of Research University

01/04/2011-31/03/2013

Members, RM 150,000.00

Tribological evaluation of palm fatty acid distillate using fourball wear tester

Grant of Research University

01/04/2011-31/03/2012

Project leader, RM 40,000.00

Development of novel implant with micropatterns to improve wear resistance in load bearing joint of the hip and knee

e-Science

01/03/2010-28/02/2012

Project leader, RM 192,600.00

Controlling sliding friction force by micro pattern tool surface in cold work extrusion

FRGS

01/04/2010-31/03/2012

Project leader, RM 44,000.00

Development of RBD palm stearin as lubricant in metal forming process

Institutional Research Grant Scheme

01/01/2009-31/12/2009

Project leader, RM 35,000.00

## **PUBLICATION**

Active in publishing journals, conferences, books and book chapters.

### **2014**

Hafis, S.M., Ridzuan, M.J.M., Mohamed, A.R., Farahana, R.N., Syahrullail, S., 2014. An experimental investigation of palm pressed fibre waste as lubricant in strip drawing. *Jurnal Teknologi* 66 (3), pp. 91-98.

Syahrullail, S., Kamitani, S., Shakirin, A., 2014. Tribological evaluation of mineral oil and vegetable oil as a lubricant. *Jurnal Teknologi* 66 (3), pp. 37-44.

Golshokouh, I., Syahrullail, S., Shariatmadari, S., Ani, F.N., 2014. Investigate Jatropha oil as new source of lubricant oil. *Applied Mechanics and Materials* 465-466, pp. 201-205.

Golshokouh, I., Syahrullail, S., Ani, F.N., Masjuki, H.H., 2014. Investigation of palm fatty acid distillate oil as an alternative to petrochemical-based lubricants. *Journal of Oil Palm Research*

Syahrullail, S., Daud, M.R., Yahya, A., Hashim, N.L.S., Nugroho, K., 2014. Machining pits on the curvature surface cup using spark process. *Jurnal Teknologi*

Alawi, O.A., Sidik, N.A.C., Mohammed, H.A., Syahrullail, S., 2014. Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review. *International Communications in Heat and Mass Transfer* 56, pp. 50-62.

Nurul, M.A., Syahrullail, S., 2014. Study of alternative lubricants for cold extrusion process of A1100 pure aluminum. *Jurnal Teknologi* 71 (2), pp. 139-143.

Syahrullail, S., Izhan, M.I., Mohammed Rafiq, A.K., 2014. Tribological investigation of RBD palm olein in different sliding speeds using pin-on-disk tribotester. *Scientia Iranica*

Sidik, N.A.C., Mohammed, H.A., Alawi, O.A., Syahrullail, S., 2014. A review on preparation methods and challenges of nanofluids. *International Communications in Heat and Mass Transfer* 54, pp. 115-125.

Golshokouh, I., Syahrullail, S., Ani, F.N., 2014. Influence of normal load and temperature on tribological properties of jatropha oil. *Jurnal Teknologi* 71 (2), pp. 145-150.

Syahrullail, S., Kamitani, S., Shakirin, A., 2014. Tribological evaluation of mineral oil and vegetable oil as a lubricant. *Jurnal Teknologi (Sciences and Engineering) Volume 66, Issue 3, pp.37-44.*

Golshokouh, I., Syahrullail, S., Ani, F.N., Masjuki, H.H., 2014. Investigation of palm fatty acid distillate oil as an alternative to petrochemical-based lubricants. *Journal of Oil Palm Research, Volume 26, pp.25-36.*

Syahrullail, S., Nuraliza, N., 2014. Experimental study on the effect of different speed using pin on disc tribotester, *Applied Mechanics and Materials, Volume 465-466, pp.562-565.*

## **2013**

Md Razak, D., Syahrullail, S., Azli, Y., Nazriah, M., Nor Liyana, S.H. and Kartiko, N., 2013. Micro-pits on biomaterial in electrical discharge machining by using Taguchi method. The 13th International Conference on Robotics, Control and Manufacturing Technology (ROCOM '13), pp.172-177.

Syahrullail, S., Ani, F.N. and Golshokouh, I., 2013. Wear resistance characteristic of vegetable oil. The 2nd International Conference on Sustainable Materials Engineering (ICoSM 2013), pp.44-47.

Syahrullail, S., Wira, J.Y., Wan Nik, W.B. and Tiong, C.I., 2013. The effect of sliding speed on friction and wear of RBD palm olein. Applied Mechanics and Materials, 315, pp.951-955.

Izhan, M.I., Wira, J.Y., Abdul Kadir, M.R. and Syahrullail, S., 2013. Experimental study on the effect of different speeds applied with palm olein using pin-on-disk tester. Applied Mechanics and Materials, 315, pp.946-950.

Golshokouh, I., Wira, J.Y., Farid, N.A. and Syahrullail, S., 2013. Palm fatty acid distillate as an alternative source for hydraulic oil. Applied Mechanics and Materials, 315, pp.941-945

Syahrullail, S., Wira, J.Y., Wan Nik, W.B. and Fawwaz, W.N., 2013. Friction characteristic of RBD palm olein using four-ball tribotester. Applied Mechanics and Materials, 315, pp.936-940.

Golshokouh, I., Syahrullail, S., Ani, F.N. and Masjuki, H.H., 2013. Investigation of palm fatty acid distillate as an alternative lubricant of petrochemical based lubricant, tested at various speeds. International Review of Mechanical Engineering (IREME), 7-1, pp.72-80.

Nor Liyana, S.H., Azli, Y., Mohammed Rafiq, A.K., Syahrullail, S. and Nazriah, M., 2013. Simulation of micro-EDM servomotor for machining micro pits on hip implant. Jurnal Teknologi, 60, pp.45-51.

Syahrullail, S., Azwadi, C.S.N. and Najib, Y.M., 2013. The influences of the die half angle of taper die during cold extrusion process. Arabian Journal for Science and Engineering, 38, pp.1201-1207.

Izhan, M.I., Mohammed Rafiq, A.K. and Syahrullail, S., 2013. Friction resistance of refined, bleached and deodorized (RBD) palm olein using modified pin-on-disk tribotester. Jurnal Teknologi, 60, pp.27-33.

Trias, A., Azli, Y., Syahrullail, S., Ameruddin, B. and Nor Liyana, H., 2013. PID controller tuning by differential evolution algorithm on EDM servo control system. Applied Mechanics and Materials, 284-287, pp.2266-2270.

Hafis, S.M., Ridzuan, M.J.M., Farahana, R.N., Amran Ayob and Syahrullail, S., 2013. Paraffinic mineral oil lubrication for cold forward extrusion: Effect of lubricant quantity and friction. Tribology International, 60, pp.111-115.

## **2012**

Tiong, C.I., Azli, Y., Mohammed Rafiq, A.K. and Syahrullail, S., 2012. Tribological evaluation of refined, bleached and deodorized palm stearin using four-ball tribotester with different normal loads. Journal of Zhejiang University SCIENCE A, 13(8) pp.633-640.

Tiong, C.I., Mohammed Rafiq, A.K., Azli, Y. and Syahrullail, S., 2012. The Effect of Temperature on the Tribological Behavior of RBD Palm Stearin. Tribology Transactions, 55(5) pp.539-548.

Wira, J.Y., Tan, W.C., Syahrullail, S., Noge, H., Mazlan, S. and Alias, M.Nor., 2012. Utilization of Waste Hydraulic Oil as Fuel in Diesel Engine. *Advanced Materials Research*, Volumes 518-523, pp.3263-3266.

Syahrullail, S., Kamitani, S. and Nakanishi, K., 2012. Experimental Evaluation of Refined, Bleached, and Deodorized Palm Olein and Palm Stearin in Cold Extrusion of Aluminum A1050. *Tribology Transactions*, Volume 55, Issue 2, pp.199-209.

Wan Nik, W.B., Ayob, A.F., Syahrullail, S., Masjuki, H.H. and Ahmad, M.F., 2012. The Effect of Boron Friction Modifier on the Performance of Brake Pads. *International Journal of Mechanical and Materials Engineering*, Volume 7, No. 1, pp.31-35.

Nor Liyana, S.H., Azli, Y., Mohammed Rafiq, A.K., Syahrullail, S. and Nazriah, M., 2012. Manufacturing Methods for Machining Micro Pits of Hip Implant for Metal-on-Metal Lubrication. *International Conference on Biomedical Engineering (ICoBE)*, Penang, Malaysia.

Nazriah, M., Azli, Y., Mohammed Rafiq, A.K., Syahrullail, S. and Nor Liyana, S.H., 2012. Electrical Discharge Machining Pulse Power Generator to Machine Micropits of Hip Implant. *International Conference on Biomedical Engineering (ICoBE)*, Penang, Malaysia.

## **2011**

Tiong Chiong Ing, A.K.Mohammed Rafiq and S.Syahrullail. "Friction Characteristic of Jatropha Oil using Fourball Tribotester", *Regional Tribology Conference - RTC2011*, Langkawi, Kedah, Malaysia (22-24 Nov 2011)

S.Syahrullail, J.Y.Wira, A.H.M.Kameil and W.N.Fawwaz. "Fourball Tribotester Assessment of RBD Palm Olein as an Industrial Lubricant", *International Tribology Conference - ITC2011*, Hiroshima, Japan (30 Oct - 3 Nov 2011)

Iman golshokouh, Farid Nasir Ani and S.Syahrullail. "Wear Resistance Evaluation of Palm Fatty Acid Distillate Using Four-ball Tribotester", *The 4th International Meeting of Advances in Thermofluids - IMAT2011*, Melaka, Malaysia, pp.1302-1309 (3-4 Oct 2011)

S.Syahrullail, J.Y.Wira, A.H.M.Kameil and W.N.Fawwaz. "Wear Characteristic of RBD Palm Olein using Four-ball Tribotester", *The 4th International Meeting of Advances in Thermofluids - IMAT2011*, Melaka, Malaysia, pp.1296-1301 (3-4 Oct 2011)

A.K. Khairuldean, T. Chiong Ing, Mohd Salman Che Kob, Aries Budianto, S. Bambang, T. Kamarul Baharin, S. Ariyono and S.Syahrullail. "Extreme Pressure Properties Investigation of Palm Olein Using Four Ball Tribotester", *The 4th International Meeting of Advances in Thermofluids - IMAT2011*, Melaka, Malaysia, pp.568-575 (3-4 Oct 2011)

Tiong Chiong Ing, A.K. Mohammed Rafiq, J.Y. Wira and S.Syahrullail. "Experimental Study the Effect of Speeds in Wear Using Fourball Tribotester", *The 4th International Meeting of Advances in Thermofluids - IMAT2011*, Melaka, Malaysia, pp.552-558 (3-4 Oct 2011)

A.K. Khairuldean, T. Chiong Ing, S. Bambang, T. Kamarul Baharin, J.Y. Wira and S.Syahrullail. "Evaluation of Oleic Acid as Additive in ATF Fluid", *The 4th International Meeting of Advances in Thermofluids - IMAT2011*, Melaka, Malaysia, pp.505-510 (3-4 Oct 2011)

M. K. Abdul Hamid , G.W. Stachowiak and S. Syahrullail. "Effects of Hard Particles on Friction Coefficients and Particle Embedment in Brake System during Hard Braking", The 4th International Meeting of Advances in Thermofluids - IMAT2011, Melaka, Malaysia, pp.473-481 (3-4 Oct 2011)

S.M.Hafis, M.J.M.Ridzuan, W.N.Imaduddin Helmi and S.Syahrullail. "Effect of Extrusion Ratio on Paraffinic Mineral Oil Lubricant in Cold Forward Extrusion", The 4th International Meeting of Advances in Thermofluids - IMAT2011, Melaka, Malaysia, pp.432-437 (3-4 Oct 2011)

M.J.M.Ridzuan , S.M.Hafis, K.N.Saifullah and S.Syahrullail. "A study of minimum quantity lubricant (MQL) of RBD palm stearin in plane strain extrusion", The 4th International Meeting of Advances in Thermofluids - IMAT2011, Melaka, Malaysia, pp.79-83 (3-4 Oct 2011)

A. Norhayati, J.Y. Wira, H.M. Zin and S.Syahrullail. "A New Method to Maintain Lubricant Layer in Extrusion Process", The 4th International Meeting of Advances in Thermofluids - IMAT2011, Melaka, Malaysia, pp.57-63 (3-4 Oct 2011)

S.M.Hafis, M.J.M.Ridzuan, S.Syahrullail and A.Amran. "The Effect of Paraffinic Mineral Oil Lubrication in Cold Forward Extrusion", International Journal of Integrated Engineering - Issue on Mechanical, Materials and Production Engineering, Volume 3, No.1, pp.28-31 (2011)

Tiong Chiong Ing, Mohammed Rafiq Abdul Kadir, Nor Azwadi Che Sidik and S.Syahrullail. Chapter in book. Chapter 6: Experimental Evaluation on Lubricity of RBD Palm Olein using Fourball Tribotester.

Book title: Tribology - Lubricants and Lubrication

ISBN: 978-953-307-371-2

S.Syahrullail, B.M.Zubil, C.S.N.Azwadi and M.J.M.Ridzuan. "Experimental Evaluation of Palm Oil as Lubricant in Cold Forward Extrusion". International Journal of Mechanical Sciences, 53, pp.549-555 (July 2011)

Khairuldean A.Kadir, T.Chiong Ing, Bambang Supriyo, Kamarul Bahrin Tawi and S.Syahrullail. "Comparison Between Mineral Oil and Palm Olein in Wear Resistance". ASEAN Conference on Scientific and Social Science Research - ACSSSR, Pulau Pinang, Malaysia (22-23 June 2011)

S.Syahrullail and A.Horhayati. "The Effect of the Diamond Shape Pits on Taper Die in Extrusion Process". ASEAN Conference on Scientific and Social Science Research - ACSSSR, Pulau Pinang, Malaysia (22-23 June 2011)

S.M.Hafis, S.Syahrullail, A.Amran and M.J.M.Ridzuan. "The Effect of Paraffinic Mineral Oil Lubrication in Cold Forward Extrusion". 2nd International Conference on Mechanical & Manufacturing Engineering 2011 - ICME, Putrajaya, Malaysia (6-7 June 2011)

M.J.M.Ridzuan, S.Syahrullail, S.M.Hafis and A.R.Anas. "Experimental Performance Evaluation of RBD Palm Stearin as an Extrusion Lubricant". 2nd International Conference on Mechanical & Manufacturing Engineering 2011 - ICME, Putrajaya, Malaysia (6-7 June 2011)

S.Syahrullail, C.S.N.Azwadi and C.I.Tiong. "The Metal Flow Evaluation of Billet Extruded with RBD Palm Stearin". International Review of Mechanical Engineering (IREME), Volume 5, No.1, pp.21-27 (January 2011)

C.S.N.Azwadi and S.Syahrullail. Chapter in book. Chapter 6: Lattice Boltzmann Numerical Approach to Predict Macroscale Thermal Fluid Flow Problem. Book title: Heat Transfer - Mathematical Modelling, Numerical Methods and Information Technology.

ISBN: 978-953-307-550-1 (February 2011)

S. Syahrullail, C.S.N. Azwadi, M.R. Abdul Kadir and N.E.A. Shafie. "The Effect of Tool Surface Roughness in Cold Work Extrusion". *Journal of Applied Sciences*, Volume 11, Issue 2, pp.367-372 (January 2011)

## **2010**

S.Syahrullail, S.Kamitani and K.Nakanishi. "Experimental Evaluation of RBD Palm Olein as Lubricant in Cold Metal Forming". *Jurnal Mekanikal*, No.31, pp.1-10 (2010)

C.S.N.Azwadi, O.A.Shahrul and S.Syahrullail. "Lattice Boltzmann Simulation of Plume Behavior from an Eccentric Annulus Cylinder". *International Journal of Mechanical and Materials Engineering (IJMME)*, Volume 5, No.2, pp.129-135 (2010)

S.Syahrullail, B.M.Zubil, C.S.N.Azwadi and C.I.Tiong. "The Effect of Stearic Acid as Lubricant in Cold Forward Extrusion Process". *International Tribology Congress - ASIATRIB 2010*, Perth, Australia (5-9 December 2010)

S.Syahrullail, C.S.N.Azwadi and Y.M.Najib. "The Influences of the Die Half Angle of Taper Die during Cold Extrusion Process". *International Conference on Advances in Mechanical Engineering - ICAME 2010*, Shah Alam, Malaysia (2-5 December 2010)

C.I.Tiong, A.K.Khairuldean, A.K.M. Rafiq and S.Syahrullail. "The Lubricating Ability of Jatropha Oil using Fourball Tribotester". *International Conference on Advances in Mechanical Engineering - ICAME 2010*, Shah Alam, Malaysia (2-5 December 2010)

K.S.Gwee, S.Mazlan, S.Syahrullail and J.Y.Wira. "Jatropha Oil Emulsion as Diesel Fuel". *International Conference on Sustainable Mobility 2010*, Kuala Lumpur, Malaysia (1-3 December 2010)

C.I.Tiong, A.K.Khairuldean and S.Syahrullail. "Performance of Vegetable Oil in Wear Resistance Using Four Ball Tester". *The 3rd International Meeting on Advances in Thermofluids - IMAT 2010*, Singapore (30 November 2010)

A.K.Khairuldean, C.I.Tiong, B.Supriyo, T.K.Bahrin and S.Syahrullail. "Investigation of Friction Characteristics of Refined, Bleached, and Deodorized Palm Olein Compared With Automatic Transmission Fluid". *The 3rd International Meeting on Advances in Thermofluids - IMAT 2010*, Singapore (30 November 2010)

A.K.Khairuldean, C.I.Tiong, B.Supriyo, T.K.Bahrin and S.Syahrullail. "Experimental Evaluation of Automatic Transmission Fluid Mixed with Palm Olein". *The 3rd International Graduate Conference on Engineering, Science and Humanities - IGCESH 2010*, Johor, Malaysia (2-4 November 2010)

C.I.Tiong and S.Syahrullail. "Flow Line Analysis of AA5083 Extruded with Palm Stearin Lubricant". *The 3rd International Graduate Conference on Engineering, Science and Humanities - IGCESH 2010*, Johor, Malaysia (2-4 November 2010)

S. Kamitani, K. Nakanishi, S. Syahrullail and S. Simotabira. "Lubrication Performance of Palm Olein in Cold Extrusion of Aluminum Alloy Using Tool with Pits Arrays Surface". *The 12th International Conference on Aluminium Alloys - ICAA12*, Yokohama, Japan (5-9 September 2010)



S. Syahrullail, C.I. Tiong, S. Kamitani and K. Nakanishi. "Evaluation of RBD Palm Stearin as an Extrusion Lubricant of Aluminum Alloy 5083". The 12th International Conference on Aluminium Alloys - ICAA12, Yokohama, Japan (5-9 September 2010)

C.S. Nor Azwadi, M.Y. Mohd Fairus and S. Syahrullail. "Virtual Study of Natural Convection Heat Transfer in an Inclined Square Cavity". Journal of Applied Sciences, Volume 10, Issue 4, pp.331-336 (February 2010)

## **2009**

Che Sidik N.Azwadi and S.Syahrullail. "Lattice Boltzmann Numerical Prediction of Flow Behavior Downstream of Cylinder Blockage at Various Reynolds Numbers". International Journal of Mechanical System Science and Engineering, Volume 1, No.1 (2009)

S.Syahrullail, C.S.N.Azwadi, M.J.M.Ridzuan, W.B.Seah. "The Effect of Lubricant Viscosity in Cold Forward Plane Strain Extrusion Test". European Journal of Scientific Research, Volume 38, No.4, pp.545-555 (December 2009)

S.Syahrullail, S.C.Teh, Y.M.Najib. "Experimental Evaluation of the Effect of Taper Die on Lubricant Performance". The 2nd International Meeting on Advances in Thermo-fluids - IMAT2009, Universitas Indonesia, Indonesia (November 2009)

S.Syahrullail, S.Kamitani, K.Nakanishi. "Investigation of Frictional Constraint Effect of RBD Palm Stearin as Lubricant by Plane Strain Extrusion". European Journal of Scientific Research, Volume 36, No.4, pp.534-542 (October 2009)

S.Syahrullail, M.J.M.Ridzuan, W.B.Seah. "The Effect of Lubricant Viscosity in High Pressure Forming". Proceeding of the 10th Asian International Conference on Fluid Machinery - AICFM, Kuala Lumpur, Malaysia (Oktober2009)

N. A. C. Sidik, S. Syahrullail. "A Three-dimension Doublepopulation Thermal Lattice BGK Model for Simulation of Natural Convection Heat Transfer in a Cubic Cavity". World Scientific and Engineering Academy and Society - WSEAS Transaction in Mathematics, Volume 8, Issue 9, pp.561-571 (September 2009)

S.Syahrullail, M.J.M.Ridzuan, S.Kamitani, K.Nakanishi. "The Performance of RBD Palm Stearin as Lubricant in Plane Strain Extrusion Process". Proceeding of the World Tribology Congress 2009 - WTC2009, Kyoto, Japan (September 2009)

S.Kamitani, K.Nakanishi, T.Matsushita, S.Syahrullail. "Measurement of Friction Coefficient under Bulk Plastic Deformation in Plane Strain Extrusion Test". Proceeding of the World Tribology Congress 2009 - WTC2009, Kyoto, Japan (September 2009)

S.Syahrullail, C.S.N.Azwadi and W.B.Seah. "Plasticity Analysis of Pure Aluminium Extruded with an RBD Palm Olein Lubricant". Journal of Applied Sciences, Volume 9, Issue 19, pp.3581-3586 (August, 2009)

S.Syahrullail and W.B.Seah. "The Evaluation of Plasticity flow of Pure Aluminum with RBD Palm Olein as Lubricant". Proceeding of the International Conference on Advances in Mechanical Engineering - ICAME2009, Shah Alam, Malaysia (June 2009)

S.Syahrullail, B.M.Zubil, C.S.N.Azwadi and M.J.M.Ridzuan. "The Evaluation of Friction Effect of RBD Palm Stearin as Cold Metal Forming Lubricant". Proceedings of the National Tribology Conference 2009 - NTC2009, University of Malaya, Kuala Lumpur, Malaysia (May 2009)

Che Sidik N.Azwadi and S.Syahrullail. "Lattice Boltzmann Numerical Prediction of Flow Behavior Downstream of Cylinder Blockage at Various Reynolds Numbers". Proceedings of the World Academy of Science, Engineering and Technology, Volume 50, Pulau Pinang, Malaysia (February 2009)

## **2008**

S.Kamitani, K.Nakanishi and S.Syahrullail. "Effect of Pits Arrays Formed on Tool Surface on Plastic Flow Under Bulk Plastic Deformation". 2nd International Conference on Advanced Tribology - ICAT2008, Singapore (December 2008)

S.Syahrullail, S.Kamitani and K.Nakanishi. "Palm Oil As An Alternative Lubricant For Metal Forming Process". The 3rd Brunei International Conference on Engineering and Technology - BICET2008, Bandar Seri Begawan, Brunei Darussalam (November, 2008)

S.Kamitani, K.Nakanishi, S.Syahrullail and Y.Seki. "The Effect of Lubricants on Material Flow Characteristic by Plane Strain Extrusion with Micro-Pits Formed on the Tool Surface". The 9th International Conference on Technology of Plasticity - ICTP2008, Gyeongju, South Korea (September, 2008)

S.Syahrullail, A.B.M. Fadzil and M.K.M. Norkhuzairi. "The Initial Study of the Performance of Palm Fatty Acid Distillate as Lubricant". The 1st International Meeting on Advances in Thermo-Fluids - IMAT2008, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia (August, 2008)

S.Syahrullail, S.Kamitani and K.Nakanishi. "Experimental Evaluation of RBD Palm Olein as Lubricant in Cold Metal Forming of Al-Mg Alloy by Plane Strain Extrusion Test". International Conference on Mechanical & Manufacturing Engineering 2008, Johor Bahru, Malaysia (May, 2008)

S.Shunpei, K.Nakanishi and S.Syahrullail. "Improvement of Surface Roughness of Aluminum Products by the Micro- Grooves on Tool Surface in Cold Extrusion". Journal of Japan Institute of Light Metal, Volume 58, Number 3 (March, 2008)

## **2007**

S.Syahrullail, S.Kamitani and K.Nakanishi. "The Performance of RBD Palm Stearin as Cold Metal Working Lubricant by Plane Strain Extrusion Test". 1st Engineering Conference on Energy and Environment, Sarawak, Malaysia (2007)

S.Syahrullail, S.Kamitani and K.Nakanishi. "Experimental Evaluation of RBD Palm Olein as Lubricant in Cold Metal Forming by Plane Strain Extrusion". Malaysia – Japan International Symposium On Advanced Technology 2007, Kuala Lumpur, Malaysia (2007)

S.Kamitani, K.Nakanishi and S.Syahrullail. "Measurement of Sliding Friction in Plane Strain Extrusion". Mechanical Engineering Congress, Osaka, Japan (2007)

S.Kamitani, K.Nakanishi and S.Syahrullail. "Improvement of Surface Roughness of a Product by the Micro-grooves Formed on Tool Surface". The 112th Conference of Japan Institute of Light Metals, Toyama, Japan (2007)

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## **2006**

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