



CURRICULUM VITAE

NAME : Hashim Hussin
DATE OF BIRTH : 02 April 1966
AGE : 42
MARITAL STATUS : MARRIED
CURRENT POSITION : SENIOR LECTURER
(UNIVERSITI SAINS MALAYSIA)
DATE OF JOINING UNIVERSITY : 02 september 1991.
CORRESPONDING ADDRESS : SCHOOL OF MATERIAL & MINERAL RESOURCES
ENGINEERING
UNIVERSITI SAINS MALAYSIA
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FIELD OF SPECIALISATION : MINERAL PROCESSING

EDUCATION

Ogos 2001 : PhD in Mineral Processing Leeds University, UK
Ogos 1997 : M.Sc in Mineral Processing, USM
Ogos 1990 : B.Sc. (Hons) Mineral Resources Eng., USM

LIST OF PUBLICATIONS

Year	Title of Publication	Where Publish	Author/Co-author
2008	Effect of structural changes of silica filler on the coefficient of thermal expansion (CTE) of underfill encapsulant.	Powder Technology, 185. 54-57.	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli, Mariatti Jaafar, Farrah Noor Ahmad, Hashim Hussin and Syed Fuad Saiyid Hashim.

2008	Mechanochemistry of silica on Jet Mill.	Journal of Materials Processing Technology. 205. 119-127	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli, Hashim Hussin and Syed Fuad Saiyid Hashim.
2008	Effect of operational parameters on the breakage mechanism of silica in a jet mill.	Minerals Engineering. 21.380-388.	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli, Hashim Hussin and Syed Fuad Saiyid Hashim.
2007	Study on mechanochemical effect of silica for short grinding period.	International Journal of Mineral Processing ,82, 195-202.	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli, Hashim Hussin and Syed Fuad Saiyid Hashim
2006	Custom made micronized silica for paint industry via fine grinding process.	Advances in Technology of Materials and Materials Processing Journal. 8. No.1. 109-116.	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli, Ee Xun Hong, Syed Fuad Saiyid Hashim, and Hashim Hussin.
2004	Structural Distortion of Silica Particle during Fine Grinding Process in Planetary Mill.	Proceedings of Symposium Mineral 2004. Ipoh	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli Syed Fuad Saiyid Hashim and Hashim Hussin
2004	Geometrically more cubical and equidimensional shaped aggregates for high strength concrete.	An international Journal on Cement and Concrete Research (in the review process).	Sri Raj Rajeswari, M. Khairun Azizi, M.,A., Kamarul Badlishah, K., Hashim, H. , Syed Fuad, S., H. Samayamutthirian, P. and Metso Minerals
2004	Validation of grinding and classification model for cement grinding process	Proceedings of Symposium Mineral 2004. Ipoh	Syed Fuad Saiyid Hashim, Hashim Hussin , Samayamutthirian Palaniandy and Khairun Azizi Mohd Azizli.
2004	The characterization of chromium slag	Proceedings of Symposium Mineral 2004. Ipoh	Hashim Hussin , Khairun Azizi Mohd Azizli, Syed Fuad Saiyid Hashim and Samayamutthirian Palaniandy
2004	From Crusher to higher quality or superior concrete. An Innovative R&D Approach	Proceedings of Malaysia Quarry Conference. Kuala Lumpur, Malaysia	Khairun Azizi Mohd Azizli Syed Fuad Saiyid Hashim, Hashim Hussin , Megat Azmi Megat Johari, Samayamutthirian Palaniandy, Fiesal Musa, M. Sri Raj Rajeswari, Roshazita Che Amat and Metso Minerals
2004	Energy Studies of fine grinding process in Planetary Mill	Proceedings of the Malaysian-Japanese Seminar on Natural Resources and Energy Environment Kyoto University. 7-8 September 2004	Samayamutthirian Palaniandy, Khairun Azizi Mohd Azizli Syed Fuad Saiyid Hashim and Hashim Hussin
2004	High Quality Shape Aggregates (HIQSA)	Proceedings of CIRAS 04. Kuala Lumpur, Malaysia	Khairun Azizi Mohd Azizli Syed Fuad Saiyid Hashim, Hashim Hussin , Megat Azmi Megat Johari, Samayamutthirian Palaniandy, Fiesal Musa, M. Sri Raj Rajeswari, Roshazita Che Amat and Metso Minerals

2004	Structural Distortion of Talc During Foine Grinding Process in Jet Mill	Proceeding of International Conference on X-Ray and Related Techniques in Research and Industry Penang, Malaysia	Samayamutthirian Palaniandy, Syed Fuad Saiyid Hashim, Hashim Hussin and Khairun Azizi Mohd Azizli
2004	Fine Grinding – A COMMREC Experience.	Proceeding of 2 nd Colloquium of Postgraduate Research. National Postgraduate Colloquium on Materials, Minerals and Polymers. (MAMIP 2004) Penang, Malaysia	Samayamutthirian Palaniandy, Syed Fuad Saiyid Hashim, Hashim Hussin and Khairun Azizi Mohd Azizli
2004	Structural Defects during Fine grinding Process	Journal of Solid State Science and Technology Letters Volume 11, 2 (Supplementary) October 2004	Samayamutthirian Palaniandy, Syed Fuad Saiyid Hashim, Hashim Hussin and Khairun Azizi Mohd Azizli
2004	Effect of hardness on the particle morphology during fine grinding process in jet mill	13 th Scientific Conference Electron Microscopy Society Of Malaysia. Putrajaya, Malaysia	Samayamutthirian Palaniandy, Syed Fuad Saiyid Hashim, Hashim Hussin and Khairun Azizi Mohd Azizli
2003	The Recovery of Chromium Metal From Slag By Bed Fluidisation Method.	3 rd International RAMM Conference . Pulau Pinang	H. Hashim , A.C Apling and C. Poole
2002	Effect of Attrition Scrubbing on Tailing Sand Grain	Enjiner , Jun 2002 Buletin for the School of Materials and Mineral Resources Engineering, USM	Hashim Hussin and Khairun Azizi Mohd Azizli
2002	Bed Fluidisation of Chromium Slag	Enjiner , Jun 2002 Buletin for the School of Materials and Mineral Resources Engineering, USM	H. Hashim , A.C Apling and C. Poole
1995	Lagenda Pantai Pasir Hitam- Satu Kajian Saintifik Pasir Hitam Dari Pesisiran Pantai Pasir Hitam Langkawi	Beletin USM (Kampus Cawangan Perak). Bil. 31, Oct -Dec	H. Hashim dan Jabar. H
1995	Processing of Tailing Sand From Ex-Tin Mines to Produce High Quality Silica for Application in the glass/Ceramics industries..	Paper presented at USM IRPA Seminar Langkawi	Azizli, K., A., M., Hussin, H. Masrom, A., K., and Rahmat, A.
1994	Pemprosesan Pasir Hampas Lombong Untuk Industri Seramik/Kaca di Malaysia	EKSP0 penyelidikan Sempena Perayaan Ulangtahun ke-25 Universiti Sains Malaysia 10-14 Ogos 1994.	Azizli, K., A., M., Masrom, A., K., Rahmat, A., Hussin, H. , dan Ismail, M., S.
1994	Pemprosesan Pasir Hampas	Seminar Kebangsaan	Hussin, H. , Ismail, M., S.,

	Dari Kawasan Lombong Untuk Kegunaan Industri Tempatan.	Sains dan Teknologi, COSTAM	Azizli, K., A., M., and Masrom, A., K
1994	Penghasilan Rutil Tiruan Daripada Ilmenit	Beletin USM (Kampus Cawangan Perak). Bil. 25, Apr – Jun	Hussin., H. dan Jabar, H

RESEARCH GRANTS

A. Incentive Grant 2001

B. Short term Grants

1. (073189) Silica Fine Particles As A Feedstock For various Advanced Materials Application. - *Co researcher*
2. Development of Nanocrystallite CaTiO₃ via High Intensity Grinding Using Value added Local Raw Materials CaO from Limestone and TiO₂ from Illmenite. – *Co researcher*
3. Study of Clinker Characteristics and Grindability during Cement Production. - *Co researcher*
4. Production of raw material for ceramic and glass industries through processing of pegmatite ore. - *Project Leader*
5. Study on the mining and quarrying process and its economics. – *Co researcher*

C. IRPA Grant

1. Production Of High Quality Aggregate For Construction Purposes .- *Co Researcher*

D. Sciencefund

1. Development of high performance composite materials from semi amorphous hybrid minerals fillers from local resources for automotive industry. – *Co researcher*

E. FRGS

1. Microstructural Characteristics and Stored Energy of Mechanically activated hematite at different energy level input. - *Co researcher*
2. Study on the kinetics of froth flotation process manganese ore. - *Project Leader*

F. Grant Industri

- 1) Development of Iron Ore Deposit at Sungai Temau, Pahang.
Sponsor : KSG Resources (M) Sdn. Bhd. and Perbadanaan Kemajuan Negeri Pahang (PKNP). - *Project Leader*

Graduate Supervision

Ph.D

1. Name : Samayamutthirian a/l Palaniandy
Title : A study on the breakage & Selection Function of Fine Grinding Process in Fluidised Jet Mill
Co- supervisor
Status: Graduated April 2008
2. Name : Ismail Ibrahim
Title : A Study on the Processing of Feldspar from Pegmatite Rock.
Co- supervisor
Status: collecting data
3. Nama: Suhaina Ismail
Title : Extraction of Manganese from low grade manganese ore.
Main Supervisor
Status: Start July 2008

Master's Degree

1. Name : Roshazita Che Amat
Title : Production of High Quality Manufactured Fine Aggregates From Quarry Dust.
Co-Supervisor
Status: Graduated Mei 2008
2. Name : Mohamad Haniza bin Mahmud
Title : Penghasilan Kaca Kristal menggunakan Pasir Silika Terproses (upgraded).
Co-Supervisor
Status: will be submitted August 2008
3. Name : Raphuel Saravana Prakash Babu
Title : Production of High Strength Asphalt Pavement Using Shape Aggregate.
Main Supervisor
Status: final stage
4. Name : Mahathir Amir
Title : Production of Cubical Shape Aggregates Using Choke Feeding method by Cone Crusher
Co-Supervisor
Status: Submitted (waiting for viva)
5. Name : Hatim Bel Haj
Title : Processing of iron ore
Main Supervisor
Status: writing up

Undergraduate Supervision

1. Name: Wan Ahmad Najib bin Wan Muhammad
Title: Kajian Pengisaran Halus Di Dalam Pengisar Planet
Final Year Project Report. Universiti Sains Malaysia. March 2002
2. Name: Mohd Hazizan bin Mohd Hashim
Title: Pasir Buatan daripada Sisa Kuari
Final Year Project Report. Universiti Sains Malaysia. March 2002
3. Name: Loh Yee Sam
Title: Kesan Penggunaan *Pet Coke* dalam Tanur dan Produknya.
Final Year Project Report. Universiti Sains Malaysia. March 2002
4. Name: Norhayati bt Ngadiman
Title: Perolehan Alumina daripada Bijih Bauksit Tempatan
Final Year Project Report. Universiti Sains Malaysia. March 2004
5. Name: Raphuel Saravana Prakash Babu
Title: Pemprosesan Kering Feldspar daripada kuari menggunakan Pengasingan Magnetik dan Bed Fluidisation.
Final Year Project Report. Universiti Sains Malaysia. March 2004
6. Name: Muralitharan a/l Balakrisnan
Title: Kesan Parameter Operasi Bebola dalam Pengalioan Mekanikal Aluminium dan Ferum Oksida.
Final Year Project Report. Universiti Sains Malaysia. March 2004
7. Name: Hairul Azhar bin Ahmad
Title: Penilaian, Pengkonsentrat dan Perolehan Logam-logam Berharga daripada Papan Litar Tercetak (PLT).
Final Year Project Report. Universiti Sains Malaysia. March 2004
8. Name: Nor Hafizah bt Misran
Title: Pemprosesan Pasir Silika Tempatan untuk Pembuatan Kaca Tanpa Warna.
Final Year Project Report. Universiti Sains Malaysia. March 2004
9. Name: Nor Shakira bt Sulaiman
Title : Pemprosesan Pasir Lombong Sebagai Bahan Mentah untuk Penghasilan Kaca Kristal.
Final Year Project Report. Universiti Sains Malaysia. March 2005
10. Name: Lizawati bt Rosli
Title : Perolehan Emas daripada Sampel Emas Berkarbon (Penjom Gold Mine, Pahang).
Final Year Project Report. Universiti Sains Malaysia. March 2005
11. Name: Nor Azila bt Sarmin
Title : Pemprosesan Feldspar Menggunakan Kaedah Pengapungan Buih.
Final Year Project Report. Universiti Sains Malaysia. March 2005
12. Name: Newton a/l Mariyanathan
Title: Kesan Pengisaran AG dalam Pemprosesan Feldspar daripada Batuan Pegmatit Menggunakan Pengasingan Magnetik.
Final Year Project Report. Universiti Sains Malaysia. March 2005
13. Name: Nurasiah bt Abd Samad
Title: Kajian Pencirian Slag daripada Proses Peleburan Kasiterit.
Final Year Project Report. Universiti Sains Malaysia. March 2005

14. Name: Nurulhuda Bt. Abdul Malik
Title: Pengubahsuaian Kebolehkisaran Dolomit Dengan Penambahan Reagen Kimia.
Final Year Project Report. Universiti Sains Malaysia. March 2006
15. Name: Fardynani Bt. Mohd Yusuff
Title: Kajian Perbandingan Kekerasan Di Antara Dua Suimber Batuan Granit Berdasarkan Teori Indeks Kerja Bond.
Final Year Project Report. Universiti Sains Malaysia. March 2006
16. Name: Mohamad Razif B. Kemat
Title: Kajian Terhadap Penghasilan Konkrit Asfalt ACWC 14 Menggunakan Product Penghancur Metsobarmac.
Final Year Project Report. Universiti Sains Malaysia. March 2006
17. Name: Miskiah Fadzilah Binti Ghazali
Title: Perolehan Mineral-Mineral Berat Daripada Amang.
Final Year Project Report. Universiti Sains Malaysia. March 2006
18. Name: Dian Semesta Binti Abdul Aziz
Title: Kajian Awal Perolehan Mineral Pengisi Daripada Kitar Semula Kertas.
Final Year Project Report. Universiti Sains Malaysia. March 2006
19. Name: Azmir B. Md. Arif
Title: Kajian Makmal Tentang Kehausan Bebola Dalam Pengisaran Bijih Besi.
Final Year Project Report. Universiti Sains Malaysia. March 2006
20. Name: Zamir B. Abdul Rashid
Title: Kajian Pencirian Bijih Manganese Daripada Kelantan
Final Year Project Report. Universiti Sains Malaysia. March 2007
21. Name: Mohamad Shawal b Ibrahim
Title: Pencirian Dan Pemprosesan Bijih Besi Menggunakan Pemisah Magnetik
Final Year Project Report. Universiti Sains Malaysia. March 2007
22. Name: Mohd Afiq b.Mohd Noor
Title: Penghasilan Bata Refraktori Daripada Selut Lombong Bijih Timah Rahman Hydraulic Tin Sdn. Bhd.
Final Year Project Report. Universiti Sains Malaysia. March 2007

Personal Achievement

1. Anugerah Perkhidmatan Cemerlang Universiti Sains Malaysia 1997.
2. Anugerah Perkhidmatan Cemerlang Universiti Sains Malaysia 2006.
3. Sanggar Sanjung Award 2007, Universiti Sains Malaysia (Category: National Research Product)

Honors & Awards

1. JPA (1984-1990)

2. ASHES USM (1997 - 2001).
3. 1st Runner-up Construction Industry Development Board of Malaysia (CIDB) 2004

Exhibitions

1. National Quarry Conference organised by Institute Of Quarrying Malaysia and Chambers Of Mines Malaysia, 19-20 August 2002, Hotel Istana Kuala Lumpur.
2. USM/SMI-SME Network 2002 organised by Universiti Sains Malaysia, 17 December 2002, Engineering Campus, USM.
3. SIMPOMIN 2004 Hotel Shuen, Ipoh Organized by Pusat Penyelidikan Mineral Malaysia.
4. MOSTI 2004 PWTC.
5. International Construction Week (ICW) 2004 organized by Construction Industrial Development Board (CIDB).