

1. **NAME IN FULL**
MOHD IZHAM BIN SAIMAN

2. **DATE OF BIRTH / AGE**
October 13, 1979 / 38

3. **DEPARTMENT / FACULTY**
Department of Chemistry, Faculty of Science
Universiti Putra Malaysia
43400 UPM Serdang
Selangor Darul Ehsan
Malaysia
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4. **EDUCATION AND ACADEMIC QUALIFICATIONS**
Primary School
Duration : 1986 - 1987
Place : La Salle Jinjang Primary School, Kuala Lumpur.
Duration : 1987 - 1988
Place : Bandar Baru Bangi Primary School, Selangor.
Duration : 1989 - 1991
Place : Othman Shawal Primary School, Melaka

Secondary School
Duration : 1992 - 1996
Place : Dato' Dol Said Secondary School, Melaka.

Certificate Awarded :
 - a. Sijil Rendah Pelajaran – 1994
Lower Certificate of Education
 - b. Sijil Pelajaran Malaysia – 1996
Malaysia Certificate of Education
Matriculation :
Duration : 1997 - 1999
Place : Mara College, Kota Bharu, Kelantan

Undergraduate :

Duration : 1999 - 2002
 Place : University Putra of Malaysia, Selangor.

Degree Awarded :

Bachelor of Science. in Petroleum Chemistry
Second Class Upper (Hons)

Postgraduate :

Duration : 2002-2006
 Place : University Putra of Malaysia , Selangor

Degree Awarded :

Master of Science
 M.Sc. Title – ‘Synthesis by Precipitation and Characterisation of Antimony Tetraoxide ’

Duration : 2007-2012
 Place : Cardiff University, Wales, United Kingdom

Degree Awarded :

Doctor of Philosophy in Heterogeneous catalysis
 Ph.D Title – ‘Heterogeneous Gold and Palladium Based Catalysts for Solvent-Free Oxidation of Toluene ’

5. AWARDS AND FELLOWSHIPS

Awards	Details	Awarding Institutions	Year
Young Chemist Award	Scientific presentation at the 28 th Regional Symposium of Malaysian Analytical Sciences.	The Malaysian Analytical Science Society (ANALIS) and Malaysia International Chemical Science Chapter American Chemistry Society (ACS)	2015
UPM / SLAB Scholarship	This scholarship is awarded to outstanding graduate student to pursue an postgraduate degree programmes at the Cardiff University, Wales, United Kingdom	Ministry of Higher Education & Universiti Putra Malaysia	2007
Excellence Researcher	This award is presented to outstanding researcher at FSAS yearly	Faculty of Science, UPM Science Excellence & Quality Day	2005
Silver Medal	New route to antimony tetraoxide (Sb ₂ O ₄): A	UPM	2005

	promising catalyst promoter in petrochemicals	<i>Exhibition of Invention, Research & Innovation</i>	
UPM / SLAB Scholarship	This scholarship is awarded to outstanding graduate student to pursue a postgraduate degree programmes at the Universiti Putra of Malaysia, Selangor	Universiti Putra Malaysia	2004
PASCA Scholarship	This scholarship is awarded to outstanding student to pursue a postgraduate degree programmes at the Universiti Putra of Malaysia, Selangor	PASCA	2002
Mara Scholarship	This scholarship is awarded to outstanding student to pursue an undergraduate at the University Putra of Malaysia, Selangor.	MARA	1999

6. CURRENT AND PREVIOUS ACADEMIC AND OTHER APPOINTMENTS

August 2012-present : Senior Lecturer at the Department of Chemistry
Faculty of Science
Universiti Putra Malaysia
43400 UPM Serdang
Selangor Darul Ehsan, Malaysia

May 2003 – July 2012 : Tutor at the Department of Chemistry
Faculty of Science
Universiti Putra Malaysia
43400 UPM Serdang
Selangor Darul Ehsan, Malaysia

May 2001- Aug 2001 : Demonstrator at the Department of Chemistry
Faculty of Science
Universiti Putra Malaysia
43400 UPM Serdang
Selangor Darul Ehsan, Malaysia

Apr 1999- Jun 1999 : Technician at the National & Panasonic Sdn. Bhd.
Cheng, Melaka, Malaysia

Mar 1998- May 1998 : Production Operator at the Hualon Corp. Sdn. Bhd.
Tangga Batu, Melaka, Malaysia

PROFIENCY IN LANGUAGES

Excellent in writing and speaking in Bahasa Malaysia and English.

Obtained an Excellent A2 Bahasa Malaysia in Sijil Pelajaran Malaysia examination in 1996

7. TEACHING EXPERIENCES

7.1 Years of Teaching

9 years experienced in teaching chemistry as a major subject at the university level. Subjects taught for diploma and undergraduate include petroleum chemistry, catalysis, oil spill control, petroleum refineries, industrial chemistry, physical chemistry and organic chemistry. Other experiences include as a co-ordinator for final year project students before they graduated.

7.2 Courses taught in Department of Chemistry

Recent Responsibilities

No.	Subject	Course Credit	Contact Hour	Number of Student	Responsibilities Semester
1.	Petroleum Chemistry (CHM 3601)	3+0	28(L)	26 (B)	Lecturer Sem 2 2016/2017
2.	Catalysis (CHM 4701)	3+0	28(L)	37 (B)	Lecturer Sem 2 2016/2017
3.	Petroleum Chemistry (CHM 3601)	3+0	28(L)	36 (B)	Lecturer Sem 1 2016/2017
4.	Catalysis (CHM 4701)	3+0	28(L)	61 (B)	Lecturer Sem 1 2016/2017
5.	Final Year Academic Project (CHM 4999B)	0+3	42 (P)	61 (B)	Co-ordinator Sem 1 2016/2017
6.	Inorganic Chemistry I (CHM 3301)	2+1	42 (P)	26 (B)	Co-ordinator Sem 1 2016/2017
7.	Final Year Academic Project (CHM 4999A)	0+3	42 (P)	61 (B)	Co-ordinator Sem 2 2015/2016
8.	Organic Chemistry I (CHM 3201)	3+1	28 (L)	36 (B)	Lecturer Sem 2 2015/2016
9.	Catalysis (CHM 4701)	3+0	28 (L)	64 (B)	Lecturer Sem 2 2015/16
10.	Petroleum Chemistry (CHM 3601)	3+0	28(L)	40 (B)	Lecturer Sem 1 2015/2016
11.	Catalysis	3+0	14 (L)	62 (B)	Lecturer

	(CHM 4701)				Sem 1 2015/16
12.	Physical and Inorganic Chemistry (CHM 3010)	3+1	42 (P)	49 (B)	Co-ordinator Sem 1 2015/2016
13.	Organic Chemistry I (CHM 3201)	3+1	28 (L)	62 (B)	Lecturer Sem 2 2014/2015
14.	Petroleum Refineries Process (CHM 3602)	3+0	14(L)	44 (B)	Lecturer Sem 2 2014/2015
15.	Oil Spill Control (CHM 3604)	3+ 0	14(L)	55 (B)	Lecturer Sem 2 2014/2015
16.	Physical and Inorganic Chemistry (CHM 3010)	3+1	42 (P)	41 (B)	Co-ordinator Sem 2 2014/2015
17.	Petroleum Chemistry (CHM 3601)	3+0	28 (L)	19 (B)	Lecturer Sem 1 2014/15
18.	Physical and Inorganic Chemistry (CHM 3010)	3+1	14 (L) 42 (P)	32 (B)	Lecturer & Co-ordinator Sem 1 2014/15
19.	Oleochemistry (CHM 3504)	2+1	42 (P)	47 (B)	Co-ordinator Sem 1 2014/15
20.	Petroleum Chemistry (CHM 3601)	3+0	28 (L)	26 (B)	Lecturer Sem 2 2013/14
22.	Oil Spill Control (CHM 3604)	3+0	14 (L)	39 (B)	Lecturer Sem 2 2013/14
23.	Catalysis (CHM 4701)	3+0	28 (L)	48 (B)	Lecturer Sem 2 2013/14
24.	Petroleum Chemistry (CHM 3601)	3+0	28 (L)	25 (B)	Lecturer Sem 1 2013/14
25.	Oil Spill Control (CHM 3604)	3+0	28 (L)	52 (B)	Lecturer Sem I 2013/14
26.	Catalysis (CHM 4701)	3+0	14 (L)	60 (B)	Lecturer Sem I 2013/14

Previous Responsibilities (4 years)

No.	Subject	Course Credit	Contact Hour	Number of Student	Responsibilities Semester
1.	Organic Chemistry I (CHM 3201)	3+1	42 (P)	60 (B)	Co-ordinator Sem I 2012/13
2.	Petroleum Chemistry (CHM 3601)	3+0	42 (L)	25 (B)	Lecturer Sem 2 2012/13
3.	Industrial Chemistry (CHM4001)	3+0	14 (L)	48 (B)	Lecturer Sem 2 2012/13
4..	Petroleum Chemistry	3+0	28 (L)	60 (B)	Lecturer

	(CHM 3601)				Sem I 2012/13
5..	Oil Spill Control (CHM 3604)	3+0	28 (L)	52 (B)	Lecturer Sem I 2012/13
6.	Physical Chemistry (CHM 3101)	3+1	42 (P)	62 (B)	Co-ordinator Sem I 2012/13
7.	Organic Chemistry I (CHM 3201)	3+1	42 (P)	60 (B)	Co-ordinator Sem I 2012/13
8.	Organic Chemistry I (CHM 3201)	3+1	42 (P)	60 (B)	Co-ordinator Sem I 2012/13
9.	General Chemistry (CHM 2000)	3+1	20(L) 16(P)	21 (D)	Lecturer Sem I 2007/08
10.	Organic and Inorganic Chemistry (CHM2001)	2+1	16 (P)	15(P)	Lecturer Sem I 2007/08
11.	Physical and Inorganic Chemistry (CHM 3010)	3+1	10 (P)	75(P)	Lecturer Sem I 2007/08
12.	General Chemistry (CHM 2000)	3+1	20(L) 16(P)	34 (B)	Lecturer & Co- ordinator Sem II 2006/07
13.	Physical and Inorganic Chemistry (CHM 2001)	2 + 1	16 (P)	53 (B)	Lecturer Sem II 2005/06
14.	Physical Chemistry (CHM 3101)	3 + 1	10 (P)	60 (B)	Lecturer Sem I 2005/06
15.	Physical Chemistry (CHM 1100)	2 + 1	23 (L)	10 (D)	Co-ordinator Sem I 2005/06
16.	Organic Chemistry (CHM 1200) (Group 2)	2 + 1	14 (L) 14 (P)	109 (D)	Lecturer & Co- ordinator Sem II 2004/05
17.	Organic Chemistry (CHM 1200) (Group 1)	2 + 1	14 (L)	55 (D)	Lecturer Sem II 2004/05

(B) = Bachelor Level (D) = Diploma/Certificate Level (L) = Lecture (P) = Practical

Invigilation of undergraduates outside from university

No.	Subject	Course Credit	Contact Hour	Number of Student	Responsibilities Semester
1.	Teacher Practical Training	4	2	5 (B)	Invigilator May and August 2017
2.	Industrial Training	6	2	6 (B)	Invigilator August 2016
3.	Industrial Training	6	2	8 (B)	Invigilator August 2015

4.	Industrial Training	6	2	7 (B)	Invigilator August 2014
5.	Teacher Practical Training	4	2	5 (B)	Invigilator July and August 2014
6.	Industrial Training	6	2	7 (B)	Invigilator August 2013

8 RESEARCH ACTIVITIES

FIELD OF SPECIALISATION

Petroleum Chemistry, Material Chemistry and Heterogeneous catalysis

9 CURRENT RESEARCH INTERESTS

Research interest encompasses a broad area on heterogeneous catalysis and material chemistry. Deep interests include producing gold supported catalyst for the oxidation reaction for petrochemical industries. Besides, oxidation of glycerol from biodiesel production is also being investigated.

Research Funding/ Grants

Principal Investigator

1. Solvent Free oxidation benzyl alcohol using Au-Pd supported catalysts
Grant: Putra IPM (UPM)
RM 47 000 – 2014 (completed)
2. Synthesis and Characterization of Nanoparticles Gold Palladium Supported Catalyst
Grant: Putra IPS (UPM)
RM 20 000 – 2015 (on going)
3. Synthesis and Characterization of Nanoparticles Gold Platinum Supported Catalyst
Grant: Putra IPS (UPM)
RM 20 000 – 2016 (on going)

Co-Researcher of Project

1. Effect of Dopants on the Oxygen Mobility of Molybdenum Vanadium-Based Oxide Catalysts
Grant : Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education
RM 121,500 – 2015 (on going)
2. Sulfonated Carbon-based catalysts from waste biomass using pyrolysis process: Synthesis and Characterization
Grant : Putra IPB (UPM)
RM 212,000 – 2016 (on going)

Researcher of Project

1. Low temperature selective methane oxidation using an *in situ*- generated hydroperoxy intermediate with supported bimetallic catalysts
Grant : Dow Methane Challenge, Dow Chemical, USA
2008 (completed)

10 PUBLICATIONS AND PROCEEDINGS**Thesis**

1. **S. Izham**, “Heterogeneous Gold and Palladium Based Catalysts for Solvent-Free Oxidation of Toluene”
The bimetallic nanogold palladium supported catalysts was studied on the toluene oxidation process, Ph.D Thesis, Cardiff University, Wales, United Kingdom (2012)
2. **S. Izham**, “Synthesis by Precipitation and Characterisation of Antimony Tetraoxide”
The studies investigate the influence synthesis parameter (precipitating agent and solvent) on the formation antimony tetraoxide powder., *M.Sc. Thesis*, University Putra of Malaysia (2006).
3. **S. Izham**, “Bioactive Compounds from *Goniothalamus Dolichocarpus*”
The studies of using stem bark of *Goniothalamus dolichocarpus* (trees in Asia) applying in the folk medicine, *B.Sc Thesis*, University Putra of Malaysia (2002)

Refereed Journals

1. Lokesh Kesavan, Ramchandra Tiruvalam , Mohd Hasbi Ab Rahim, **Mohd Izham bin Saiman**, Dan I. Enache, Robert L. Jenkins, Nikolaos Dimitratos, Jose A. Lopez-Sanche,; Stuart H. Taylor, David W. Knight, Christopher J. Kiely and Graham J. Hutchings, “Solvent-Free Oxidation of Primary Carbon-Hydrogen Bonds in Toluene Using Au-Pd Alloy Nanoparticles”, *Science*, **2011**, 331, 6014, 195-199, **IF 31.36**.
2. **Mohd Izham bin Saiman**, Gemma L.Brett, Ramachandra Tiruvalam, Michael M. Forde, Kate Sharples, Adam Thetford, Robert L. Jenkins, Nikolaos Dimitratos, Jose A. Lopez-Sanchez, Damien M. Murphy, Donald Bethell, David J. Willock, Stuart H. Taylor, David W.Knight, Christopher J. Kiely, and Graham J. Hutchings, “Involment of Surface-bound Radicals in the Oxidation of Toluene using supported Au-Pd Nanoparticles”, *Angewandte Chemie International Edition*, **2012**, 51, 5981-5985. **IF 12.730**
3. Michael M. Forde, Lokesh Kesavan, **Mohd Izham bin Saiman**, Qian he, Nikolaos Dimitratos, Jose Antonia Lopez-Sanchez, Robert L. Jenkins, Sutart H. Taylor, Christopher J. Kiely, Graham J. Hutchings, “High Activity Redox Catalysts Synthesized by Chemical Vapor Impregnation”, *ACS Nano*, **2014**, 8, 1, 957-969. **IF 12.062**.
4. Faris A.J. Al-Doghachi, Umer Rashid, Zulkarnain Zainal, **Mohd Izham Saiman**, Yun Hin Taufiq Yap, “Influence of Ce₂O₃ and CeO₂ promoters on Pd/MgO catalysts in the dry-reforming of methane” *RSC Advances*, **2015**, 5, 81739-81752. **IF 3.84**

5. Faris A.J. Al-Doghachi, Zulkarnain Zainal, **Mohd Izham Saiman**, Zaidi Embong, Yun Hin Taufiq Yap, "Hydrogen production from Dry-Reforming of Biogas over Pt/Mg_{1-x}Ni_xO catalysts", *Energy Procedia*, **2015**, 79, 18-25.
6. Faris A.J. Al-Doghachi, Aminul Islam, Zulkarnain Zainal, **Mohd Izham Saiman**, Zaidi Embong, Yun Hin Taufiq Yap, "High Coke-Resistance Pt/Mg_{1-x}Ni_xO catalyst for dry reforming of Methane", *Plos One*, **2016**, 11,1-22.
7. Aminu Musa, Mansor B. Ahmad, Mohd Zobir Hussein, **Saiman Mohd Izham**, Kamyar Shameli and Hannatu Abubakar Sani, "Synthesis of Nanocrystalline Cellulose Stabilized Copper Nanoparticles", *Journal of Nanomaterials*, **2016**, 1-7
8. Aminu Musa, Mansor B. Ahmad, Mohd Zobir Hussein, **Mohd Izham Saiman**, Hannatu Abubakar Sani, "Effect of Gelatin-Stabilized Copper Nanoparticels on Vatalytic Reduction of Methylene Blue." *Nanoscale Research Letters*, 11, 1, **2016**, 438
9. S Ezzah Mahmudah, IM Lokman, **MI Saiman**, YH Taufiq Yap, "Synthesis and characterization of Fe₂O₃/CaO derived from Anadara Granosa for methyl ester production, *Energy Conversion and Management*, 126, **2016**, 124-131
10. Aminu Musa, Mansor B. Ahmad, Mohd Zobir Hussein, **Mohd Izham Saiman**, Hannatu Abubakar Sani, "Preparation, characterization and catalytic activity of biomaterial-supported copper nanoparticles, *Research on Chemical Intermediates*, 43, 2, **2016**, 801-815
11. M.S. Mastuli, N. Kamarulzaman, M.F. Kasim, S. Sivasangar, **M.I. Saiman**, Y.H. Taufiq Yap, "Catalytic gasification of oil palm frond biomass in supercritical water using MgO supported Ni, Cu, and Zn oxides as catalysts for hydrogen production, *International Journal of Hydrogen Energy*, 42, 16, **2017**, 11215-11228
12. Fuzi Mohamed Fartas, Jaafar Abdullah, Nor Azah Yusof, Yusran Sulaiman, **Mohd Izham Saiman**, "Biosensor Based on Tyrosinase Immobilized on Graphene-Decorated Gold Nanoparticle/ Chitosan for Phelonic Detection in Aqueous, *Sensors*, 17(5), **2017**,1132

Proceedings

International

1. "Solvent Free Oxidation of Benzyl Alcohol using Gold Palladium by supported catalyst", N.S. Nordin, N.S. Rahim dan **M.I. Saiman**, *7th International Conference on Green and Sustainable Chemistry and 4th JACI/GSC Symposium*, 5-8th July 2015, page 289.
2. "Hydrogen production from dry-reforming of biogas over Pt/Mg_{1-x}Ni_xO catalysts", Faris Jasim Al-Doghachi, Zulkarnain Zainal, **Mohd Izham Saiman**, Zaidi Embong, Yun Hin Taufiq Yap, *5th International Conference on sustainable Energy and Environmental (SEE 2014):Science, Technology and Innovation for ASEAN Green Growth*, 19-21st November 2014, Bangkok, Thailand
3. "Solvent free Toluene Oxidation using noble metal nanoparticles" Michael M. Forde, Lokesh Kesavan, **Mohd Izham bin Saiman**, Christopher J. Kiely, Graham J. Hutchings, *International IUPAC Conference on Green Chemistry*, 25-29th August 2012, Brazil, submitted May 2012.
4. "Synthesis and Characterization of Antimony Oxide Heterogeneous Catalyst", M. B. Abdul Rahman, **M. I. Saiman**, A. H. Abdullah, S. B. Abdul Hamid, I. Ramli and Taufiq Yap, *International Asia Pacific Catalyst 2003*, 28-30th October 2003, Dhalian, China.

National

1. “Synthesis and Characterisation of Antimony Oxide Catalyst for Propane Oxidation Reaction”, **M.I. Saiman**, M. B. Abdul Rahman, A. H. Abdullah, S. B. Abdul Hamid, I. Ramli and Taufiq Yap, *16th Malaysian Analytical Chemistry Symposium*, Kuching, Sarawak, 9-11th September 2003.

Abstract book

1. “Solvent Free Oxidation of Benzyl Alcohol using Au-Pt supported nano ceria catalyst”, Nur Syuhada Ahmad Taufik, Norasidah Mohd JamJam, **Mohd Izham Saiman**, 20th Industrial Chemistry Seminar, Bangi-Putrajaya Hotel, 23rd May 2017
2. “Solvent Free Oxidation of Benzyl Alcohol to benzaldehyde using gold-platinum catalyst”, Umi Kalsum Arifin, Herda Abd Rahman and **Mohd Izham Saiman**, 19th Industrial Chemistry Seminar, Bangi-Putrajaya Hotel, 2nd June 2016
3. “Solvent Free Oxidation of Benzyl Alcohol using mono and bimetallic Au-Pd supported catalyst”, Sanaa Tareq, A.H. Abdullah, Y.H. Taufiq Yap, Umer Rashid and **Saiman Mohd Izham**, Fundamental Science Congress (FSC2015), 12-13th November 2105, Faculty of Veterinary Medicine, UPM.
4. “Solvent-Free Oxidation of benzyl alcohol to benzaldehyde using a highly active gold palladium supported titanium oxide catalyst and TBHP as an oxidant”, N. Mohd JamJam and **Mohd Izham Saiman**, Fundamental Science Congress (FSC2015), 12-13th November 2105, Faculty of Veterinary Medicine, UPM.
5. “Direct Synthesis of benzyl Alcohol oxidation using Au-Pd catalyst prepared by sol immobilisation”, .F.Z. Mohd Aris, N.A. Ahmad Shah, N. Mohd Jam Jam, N.S.M. Yusof and **M.I. Saiman**, 28th Malaysian Analytical Chemistry Symposium (SKAM-28), 17-20th August 2015, Weil Hotel, Ipoh, Perak.
6. “Solvent Free Oxidation of Benzyl Alcohol Reaction using Gold Palladium Supported on Titanium Oxide Catalyst”, N. Mohd JamJam, E.N. Muhammad, Y.H. Taufiq Yap and **M.I. Saiman**, 28th Malaysian Analytical Chemistry Symposium (SKAM-28), 17-20th August 2015, Weil Hotel, Ipoh, Perak.
7. , “Solvent Free Oxidation of Benzyl Alcohol to Benzaldehyde using Gold and Palladium supported by carbon catalyst, N.S.M. Yusof, and **M.I. Saiman** ,28th Malaysian Analytical Chemistry Symposium (SKAM-28), 17-20th August 2015, Weil Hotel, Ipoh, Perak.
8. “The Effect of different ratios of Au and Pd supported TiO₂ or carbon catalyst for the oxidation of benzyl alcohol”, N.F.Z. Mohd Aris, N.A. Ahmad Shah, **M.I. Saiman**, 18th Industrial Chemistry Seminar, Cyberview & Spa, Cyberjaya, 9th June 2015
9. “Solvent Free Oxidation of Benzyl Alcohol using Gold Palladiumby supported catalyst”, N. Nordin, N.S. Rahim, **M.I. Saiman**, 27th Malaysian Analytical Chemistry Symposium (SKAM-27), , KSL Resort, Johor Bahru, Johor, 8-10th December 2014

10. "Solvent Free Oxidation of Benzyl Alcohol using Gold Palladium supported catalyst", N.S. Nordin, N.S. Rahim, and **M.I. Saiman**, 17th Industrial Chemistry Seminar, PICC, Putrajaya, 24th June 2014.
11. "Oxidation of benzyl alcohol to benzaldehyde using Au-Pd supported on TiO₂ catalyst", Nurul Ruzana and **M.I. Saiman**, 16th Industrial Chemistry Seminar, Cyberview & Spa, Cyberjaya, 25th June 2013.
12. "Solvent Free Oxidation of benzyl alcohol to benzaldehyde using Au/Pd supported catalyst", S.N. Ibrahim and **M.I. Saiman**, 16th Industrial Chemistry Seminar, Cyberview & Spa, Cyberjaya, 25th June 2013.

Exhibition

1. "New route to Antimony tetraoxide (Sb₂O₄) promising promoter catalyst in petrochemical industry", Mohd Basyaruddin Abdul Rahman, **Mohd Izham Saiman**, Irmawati Ramli, Abdul Halim Abdullah and Taufiq Yap, *Exhibition of Invention, Research & Innovation* UPM 2005.

10. ADMINISTRATIVE DUTIES AND OTHER RESPONSIBILITIES

National Level

1. Chairman of parallel session of the 28th Regional Symposium of Malaysia Analytical Science (SKAM28), 2015
2. Chairman of parallel session of the 27th Regional Symposium of Malaysia Analytical Science (SKAM27), 2014

Faculty Level

1. Referee of the presentation student for the Fundamental Science Congress (FSC 2015), 2015
2. Vice chairman for the Surface Science and Catalysts Characterization Workshop, PutraCat, 2014
3. Fasilitator of the Future Camp: The Making program, 2014
4. Chairman of chemistry session of the Fundamental Science Congress (FSC 2013), 2013
5. Referee of the presentation student for the Fundamental Science Congress (FSC 2013), 2013
6. Fasilitator of the Future Camp: The Making program, 2013
7. Member of Promotion and Publicity Committee for the Faculty of Science, 2013

Department Level (Department of Chemistry)

1. Vice Chairman for the 20th Industrial Chemistry Seminar (SKI-XX), 2017
2. Vice Chairman for the 19th Industrial Chemistry Seminar (SKI-XIX), 2016

3. Chairman of Chemistry Staff Club, 2015-2016
4. Member of Technical Committee for the Fundamental Science Congress Seminar, 2015
5. Member of Technical Committee for the 18th Industrial Chemistry Seminar (SKI-XVIII), 2015
6. Coordinator of the arrangement timetable for all chemistry students, 2014-2015
7. Member of Technical Committee for the 17th Industrial Chemistry Seminar (SKI-XVII), 2014
8. Advisor of Chemistry Students Club, 2013 – 2014.
9. Academic Advisor, Department of Chemistry, Universiti Putra Malaysia, 2012 – present
10. Member of Technical Committee for the 16th Industrial Chemistry Seminar (SKI-XVI), 2013
11. Member of Technical Committee for the 11th Industrial Chemistry Seminar (SKI-XI), 2007
12. Member of Sub-Editor for The Malaysian Journal Analytical Science (MJAS), 2006
13. Member of Committee for the question and answer scheme revision for the chemistry subject under Faculty of Science, 28 September 2006-present
14. Member of Logistic Committee for the 19th Malaysian Analytical Chemistry Symposium (SKAM-19) and 2nd Malaysian Conference on Catalysis (MyCat2), 21st-24th August 2006.
15. Member of Quality Co-ordinator for the postgraduate students, 2005-present
16. Academic Advisor, Department of Chemistry, Universiti Putra Malaysia, 2004 – 2005.

College Level (Kolej Keenam – the 6th Residential College in Universiti Putra Malaysia)

1. Member of logistic committee for activities “Malam Jasamu Dikenang”, Feb 1999.
2. Co –ordinator of “Ihya Ramadhan activities, 1999
3. Member of the Committee for “Malam Cendekiawan Islam” activities, 1999

11 CONFERENCES, SEMINARS AND WORKSHOPS PARTICIPATED

11.1 As a Paper Presenter

1. 28th Regional Symposium of Malaysia Analytical Science (SKAM28), Ipoh, Perak, 2015
2. Heterogeneous Catalysis & Surface Science Group Student Symposium, School of Chemistry, Cardiff University, 16/6/09
3. 16th Malaysian Analytical Chemistry Symposium (SKAM16), Kuching, Sarawak, 9-11th September 2003
4. Seminar for the undergraduate students, Department of Chemistry, University Putra of Malaysia, 2002.

11.2 As a Poster Presenter

1. 7th International Conference on Green and Sustainable Chemistry and 4th JACI/GSC Symposium, Hitotsubashi Hall, Hitotsubashi University, Chiyoda-ku, Tokyo, Japan, 5-8th July 2015.
2. 27th Regional Symposium of Malaysia Analytical Science (SKAM 27), KSL Resorts, Johor Bahru, 9-10th Dec 2014.

3.

11.3 As a Committee Member

1. 19th Malaysian Analytical Chemistry Symposium (SKAM16) and 2nd Malaysian Conference on Catalysis (MyCat2), Melaka, 21st -24th August 2006 (Committee).

11.4 As a Participant

1. *Seminar on Industrial Chemistry SKI XIX, Bangi-Putrajaya Hotel, 2nd June 2016*
2. *Seminar on Industrial Chemistry SKI XVIII, Cyberview Resort & Spa, Cyberjaya, 9th June 2015*
3. *Seminar on 27th Regional Symposium of Malaysia Analytical Science (SKAM 27), 9-10th Dec 2014*
4. *Seminar on Industrial Chemistry SKI XVII, PICC, Putrajaya, 24th June 2014*
5. *Seminar on Industrial Chemistry SKI XVI, Cyberjaya, 25th June 2013*
6. *Taylor Conference Cardiff, Julian Hodge Building, Cardiff University, 22/6-25/6/09*
7. *GC, HPLC and MS seminar (Post Graduate Workshop), School of Chemistry, Cardiff University, 5/5-9/6/2009*
8. *Cardiff Easter Conference, School of Chemistry, Cardiff University, 31/3-1/4/09*
9. *NMR course, School of Chemistry, Cardiff University. 17/2/09-24/3/09*
10. *Coshh and Risk Assessment, School of Chemistry, Cardiff University, 19/11/08*
11. *Gas safety course, School of Chemistry, Cardiff University, 12/11/08*
12. *Molecular Modelling Workshop 2006, Faculty of Science, UPM, 3rd October 2006*
13. *Seminar on New & Trends for Material Characterization, Faculty of Science, UPM, 13th September 2006*
14. *Research and Industry Forum 2006, Faculty of Engineering, UPM, 5th-6th September 2006.*
15. *19th Malaysian Analytical Chemistry Symposium (SKAM16) and 2nd Malaysian Conference on Catalysis (MyCat2), Melaka, 21st -24th August 2006.*
16. *Public lecture on "Aquaporin Water Channels: Science & Life" by Nobel Laureate Prof. Peter C. Agre, Sultan Salahuddin Abdul Aziz Shah Culture & Arts Centre UPM, 12th July 2006*
17. *Seminar on "Solid State Chemistry of Electroceramics" by Prof. A. R. West and "Structural Characterization of Oxides using X-Ray and Neutron Powder Diffraction Methods" by Dr. Gabrielle Miles (Department of Engineering Materials, University of Sheffield, U.K.), Faculty of Science, UPM, 2nd December 2005.*
18. *Public Lecture on "Emerging Disease: How human activities may help disease to emerge, and the need for global surveillance for a rapid response" by Prof. John S Mackenzie (Winner of ASM Award for Scientific Excellence In Honour of Tun Dr. Mahathir Mohamad), UPM, 5th September 2005*
19. *Seminar on "Screening and docking chemical ligands onto pockets cavities of protease for designing biocatalyst" by Assoc. Prof Dr. Mohd Basyaruddin Abdul Rahman and " Activation of VOHPO₄.0.5H₂O in propane/ air mixture: Effect of structural / morphological and reactivity of (VO)₂P₂O₇ catalyst" by Assoc. Prof Dr. Taufiq Yap Yun Hin, Faculty of Science, UPM, 13th April 2005.*
20. *Seminar on Industrial Chemistry SKI X, Putrajaya, 9th April 2005.*

21. Seminar on “*Particles Size Analysis*” by Dr. Ulrich Kesten (Symptec GmbH), Faculty of Science, UPM, 7th April 2005.
22. *Workshop on Research Introduction*, Putrajaya, 27th July 2004.
23. *Workshop on Introduction of MS ISO 9001:2000*, Department of Mathematics, FSAS, UPM, 30th March 2004.
24. Workshop on “*BET Surface Area (Physisorption and Chemisorption)*”, FSAS, UPM, 24th -27th February 2004.
25. Seminar on “*PLA and PLA-Based Nanocomposites*” by Prof. Dr. M. Okamoto, Japan, FSAS, UPM, , 8th January 2004 .
26. *Chemistry Department Seminar*, FSAS, UPM, 29th October 2003.
27. *Workshop on Electron Microscopy*, Institute of Bioscience, Universiti Putra Malaysia, 18th - 22nd August 2003.
28. Seminar on “*Preparation of heterogeneous catalysis*” by Prof. Robert Schlogl (Department of Inorganic Chemistry, Fritz Haber of Max Planck Society, Germany) IPS, UM, 21st February 2003
29. Seminar on “*The Role of in-situ techniques in making combinatorial heterogeneous catalysis a success*”, by Prof. Robert Schlogl (Department of Inorganic Chemistry, Fritz Haber of Max Planck Society, IPS, UM, 20th February 2003.
30. Seminar on “*The Role of Metal Oxides in Selective Oxidation Catalysts*”, by Prof. Robert Schlogl (Department of Inorganic Chemistry, Fritz Haber of Max Planck Society, Germany), UPM, 19th February 2003.
31. *Seminar of Surfactant CombiCat UKM*, UKM, 24th January 2003.
32. *Seminar on Robotics* by Dr. Bashir Harji (Cambridge Reactor Design Ltd.), UM, 17th January 2003
33. *TPDRO 1100 Training*, by Guee Eng Hwa (O’Connor’s Engineering Sdn. Bhd.), COMBICAT-UPM Laboratory, 2nd January 2002
34. Seminar on “*Tribomechanical Activation of VPO Catalysts*”, by Dr. D.S. Su, UPM, 28th December 2002.
35. Seminar on “*TEM and EELS of VPO Catalysts*”, by Dr. D.S. Su, UM, 27th December 2002.
36. Chemistry Department Seminar “*Solid State Chemistry of Ferroelectric Ceramics*” by Prof A. R. West, FSAS UPM, 20 December 2002.
37. *International Conference On X-Rays And Related Techniques In Research And Industry*, Concorde Hotel, Shah Alam, Malaysia. 30-31st October 2002.
38. *Agilent 6890N GC Fundamental. Maintenance, Troubleshooting and Valve Training* by Ms Tan Lay Peng (Agilent Training Consultant) and Mr Mark Richards (South Asia HPI Specialist), UM, 22nd -24th October 2002.
39. Public Lecture on “*Science & Technology in the 21st Century*” by Nobel Laureate Prof. Dr. Ahmed H. Zewail at Sultan Salahuddin Abdul Aziz Shah Cultural & Art Centre, UPM, 14th October 2002.
40. Seminar on “*Reactor Design For Chemical Processes*”, by Dr. Saeed Tajik, UM, 3rd September 2002
41. *Industrial Chemistry VII Seminar on Kimia: Pemangkin dalam Perindustrian Negara*”, Department of Chemistry, UPM, 19th September 2001.

12. Supervision of Students

Doctor of Philosophy (PhD)

As Supervisor

Name of Students	Programme (Status)	Projects Title
Sanaa Tareq	PhD (On Going)	Solvent Free Oxidation of Benzyl Alcohol using Au-Pd catalyst.

As Co-Supervisor/Member of Advisory Committee

Name of Students	Programme (Status)	Projects Title
Faris Abdulridha Jassim	PhD (Complete)	Dry Reforming of Methane by using (MgO-MO, M' ₂ O ₃ or M''O ₂ /M''') where M=Ni, M'=La,Ce, M''=Zr and M''' = Co, Ni, Pd, Pt, Cu, Zn, Ag.
Aminu Musa	PhD (Complete)	Preparation and Characterization of Metal/Metal Oxide Nanoparticles on nanocrystalline ellulose for catalytic and antimicrobial activities.
Mohd Sufri bin Mastuli	PhD (On Going)	Catalytic Gasification of Oil Palm Biomass in Supercritical Water for Hydrogen Production.
Nur Syazwani bt. Osman	PhD (Complete)	Solid heterogeneous catalysts derived from different waste shell in biodiesel production from micro algae oil.
Ahmad Afandi bin Muda	Phd (On Going)	Design, characterization and optimization of mixed metal oxide catalyst for high yield of acrylic acid via selective oxidation reaction.
Nor Sahida bt Azri.	Phd (On Going)	Catalytic oxidation of glycerol in liquid phase on supported metal oxides based catalysts: Preparation, optimization, characterization and mechanistic study

Master of Science (M.Sc)

As Supervisor

Name of Students	Programme (Status)	Projects Title
Nur Syahira bt. Mohd Yusof	MSc (On Going)	Solvent Free Oxidation of Benzyl Alcohol using Au-Pd supported carbon catalyst.
Norasidah bt. Mohd Jamjam	MSc (On Going)	Solvent Free Oxidation of Benzyl Alcohol using Au-Pd supported TiO ₂ catalyst.

As Co-Supervisor/Member of Advisory Committee

Name of Students	Programme (Status)	Projects Title
Nur Syafiqah Hazirah bt. Razali	MSc (Complete)	Synthesis of Silver Oxide Doped Zinc Oxide photocatalyst for degradation of 4-chlorophenol in aqueous solution.
Abdulkareem Ghassan Abdulkareem	MSc (Complete)	Heterogeneous catalyst for biodiesel production from waste cooking oil.
Salam Hussein Hayder	MSc (Complete)	Esterification of palm fatty acid distillate (PFAD) by using Manganese oxide and Nickel Oxide supported on Zirconia, Alumina for biodiesel production.

Undergraduate Level**Bachelor of Science (B.Sc)**

Students Name	Programme (Academic Year)	Projects Title
Nur Syuhada binti Ahmad Taufik	B Sc (Hons) (2016/2017)	Solvent Free Oxidation of benzyl Alcohol using Au-Pt Supported nano ceria catalyst
Umi Kalsum binti Arifin	B Sc (Hons) (2015/2016)	Solvent Free Oxidation of Benzyl Alcohol using Titania-supported gold-platinum catalyst
Laimy bin Mohd Fudzi	B Sc (Hons) (2015/2016)	Solvent Free Oxidation using gold and platinum supported carbon catalyst
Herda binti Abd	B Sc (Hons)	The Effect of bimetallic core-shell AuPd and AuPt

Rahman	(2015/2016)	supported catalyst towards the oxidation of Benzyl Alcohol
Ahmad Faizi bin Abdul Karim	B Sc (Hons) (2014/2015)	Solvent Free oxidation on benzyl alcohol by using Au/Pd supported Al ₂ O ₃ catalyst.
Nurul Asyiqqin binti Ahmad Shah	B Sc (Hons) (2014/2015)	The effects of different ratios of Au-Pd metal supported carbon catalyst for the oxidation of benzyl alcohol
Muhammad ` Amir bin Yahaya	B Sc (Hons) (2014/2015)	Solvent Free oxidation of benzyl alcohol using Au-Pd supported nano CeO ₂ catalyst
Nurul Fatimah Az-Zaharah bt. Mohd Aris	B Sc (Hons) (2014/2015)	The effects of different ratios of AuPd with supported TiO ₂ catalyst for the oxidation of benzyl alcohol.
Nur Shafika bt. Rahim	B Sc (Hons) (2013/2014)	Oxidation of benzyl alcohol to benzaldehyde using Au-Pd supported on TiO ₂
Mohamad Faiz b. Baharuddin	B Sc (Hons) (2013/2014)	Oxidation of benzyl alcohol to benzaldehyde using Au-Pd supported on cerium oxide catalyst
Nurshuhada bt. Nordin	B Sc (Hons) (2013/2014)	Solvent-free oxidation of benzyl alcohol using Au/Pd supported by carbon catalyst
Nurul Ruzana bt. Mohd Jumat	B Sc (Hons) (2012/2013)	Oxidation of benzyl alcohol to benzaldehyde using Au-Pd supported on TiO ₂
Siti Nadiah bt. Ibrahim	B Sc(Hons) (2012/2013)	Solvent-free oxidation of benzyl alcohol to benzaldehyde using gold and palladium supported catalyst

13. Appointments based on expertise

13.1 Journal reviewer/referee

1. Reviewer for the Sains Malaysiana entitled” Morphological study of synthesized RGO/Pt nanocomposites via facile chemical reduction method”, 2016
2. Reviewer for the Malaysian Journal of Analytical Science (MJAS)-special edition manuscript of SKAM 27 entitled,”Enhanced Activity of ZnO with addition of C₃N₄ for photocatalytic removal of phenol under visible light”, 2015.
3. Reviewer for the *Malaysian Journal of Chemistry* manuscript entitled, “Remediation of cationic dye simulated wastewater using photolysis: parametric and kinetic studies”, 2015
4. Reviewer for the *Journal of Bulletin of Chemical Reaction Engineering & Catalysis* manuscript entitled, “Selective hydrogenation of Dibenzo-18-crown-6 ether over highly active monodisperse Ru/γ-Al₂O₃ catalyst” by Y.R. Suryawanshi, M. Chakraborty, S. Jauhari, S. Mukhopadhyay, K.T. Shenoy and D. Sen 2014.

14 Extension and Public Services

Outreach

1. Fasilitator for Jerlun Science Carnival under Ministry of Science, Technology and Innovation (MOSTI) and Academy of Science Malaysia, Jerlun Secondary School, Kedah, 10th May 2016
2. Adjudicator for Malaysia Conference of Young Scientist 2016, Universiti Putra Malaysia, 29th – 31st January 2016
3. Fasilitator for “Kuala Lumpur Engineering Science Fair under UPM STEM and Faculty of Science, Mines International Exhibition and Convention Centre, Selangor, 30th Oktober-1st November 2015
4. Participant for “Nobelism Mindset Workshop: Science Institute 2014, New York Academy of Science, 250 Greenwich St, New York, United States, 22-26th September 2014
5. Participant for “River Hunt: River of life public outreach programme”, Empangan Klang Gate, Open Classroom, Taman Warisan, 24th May 2014
6. Participant for the Nobelism Mindset Workshop 2, Pusat Permata Pintar Negara, Universiti Kebangsaan Malaysia. 30th Sept- 4th October 2013

15 Extracurricular activities

International Professional Activities

1. Member (MRSC), Royal Society of Chemistry, United Kingdom (2017-present)
2. Member of the CU ALUMNI, Cardiff University (2012-present)

National Professional Activities

1. Member of the UPM ALUMNI, Universiti Putra Malaysia (2002-present)

16 ACADEMIC REFERENCES

1. Professor Dr Graham J Hutchings,
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2. Professor Dr Taufiq Yap Yun Hin
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Faculty of Science
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43400 UPM Serdang
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e-mail: yap@upm.edu.my

3. Professor Dr Mohd Basyaruddin Abdul Rahman
Department of Chemistry
Faculty of Science
Universiti Putra Malaysia
43400 UPM Serdang
Malaysia
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Other activities

Hockey, volleyball, reading, music and movies

Dreams

Become a PROFESSOR at least by 44 years old

Added Skills and Technique

X-Ray Spectroscopy, BET Surface Area, Scanning Electron Microscope, Transmission Electron Microscope, Gas Chromatography, Gas Chromatography Mass Spectrometer, Thermogravimetry, and Information Technology.