



Professor Dr. Wong Shaw Voon
Department of Mechanical and Manufacturing
Engineering, Universiti Putra Malaysia
43400 UPM, Serdang MALAYSIA
Tel : +603 8924 9200
Fax : +603 87332005
E-mail : wongsv@miros.gov.my



Areas of interest: Applied and Computational
Mechanics, Engineering Material and Design,
Computer-Integrated Manufacturing

Academic Qualification:

1. Bachelor of Engineering in Mechanical & System Engineering with 1st Class Honours and 1st of the class, Universiti Putra Malaysia, Malaysia, 1993-1997
2. Doctor of Philosophy in Mechanical Engineering, Dublin City University, Ireland, Oct 1997 – June 2000

Professional Qualification/ Membership/ Affiliation:

1. MSAE, Corporate Member, Society of Automotive Engineers, USA. Membership No: 6105957502, Since 2001
2. Graduate Engineer, Board of Engineers, Malaysia, Since 1997
3. CEng, Chartered Engineer, Engineering Council, United Kingdom, 28 Jan 2004, Registration Number: 546378, Since Jan 2004
4. MIMechE, Chartered Mechanical Engineer, Corporate Member, Institution of Mechanical Engineers (Patron Her Majesty The Queen), United Kingdom, Membership Number: 80049257, Since 28 Jan 2004.
5. MASME, Corporate Member, The American Society of Mechanical Engineers, USA, Membership No: 8726382, Since 28 July 2005
6. Keahlian Majlis Profesor Negara MPN 1220 - April 2013

Appointments:

Director-General
KUP Jusa C
Malaysian Institute of Road Safety Research (MIROS)
(On secondment to Malaysian Institute of Road Safety Research (MIROS))
Date of Appointment for Present Position: 1 August 2011

Professor of Mechanical Engineering (Gred Khas C, VK7), 1 August 2011

Director
Vehicle Safety and Biomechanics Centre
Malaysian Institute of Road Safety Research (MIROS) (Jusa C)
(3/12/2007 – 31/7/2011)

Associate Professor of Mechanical Engineering (DS54), May 2004

Date of First Appointment in Public Service: 25-05-1997

Date of First Permanent Appointment in Public Service: 07-07-2000

Date of Confirmation in Public Service: 07-07-2003

Date of Appointment for Present Position: 01-05-2004

Area of interests:

1. Applied and Computational Mechanics
2. Engineering Material and Design
3. Computer-Integrated Manufacturing

Research Topics (Project Leader);

1. Characteristics of Young Motorcycle Pillion Passengers in Selangor [RM10,700] – Project No.: VS102020, **Project Supervisor**, May – Nov 2010, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
2. Post-crash management: Emergency Assistance and Rehabilitation Services from Experience of Road Traffic Injury Survivors in Klang Valley [RM18,850] – Project No.: VS102019, **Project Supervisor**, May 2010 – May 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
3. Quality of Life and Return to Work Pattern among Road Traffic Injury Survivors in Urban Area [RM19,900] – Project No.: VS102021, **Project Supervisor**, May 2010 – May 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
4. Emergency Assistance for Trauma by Road User in Klang Valley: Prevalence and Determinants of Action [RM37,000] – Project No.: VS102024, **Project Supervisor**, May – Dec 2010, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
5. An Exploratory Study on Public Knowledge and Attitudes Towards Air Bags [RM18,985] – Project No.: VS102022, **Project Supervisor**, May 2010 – Mac 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
6. Development of Methodology for Conducting Virtual Coach Rollover Simulation According to UNECE R66 [RM19,550] – Project No.: VS102025, **Project Supervisor**, May 2010 – Dec 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia

7. Pedestrian Safety in Malaysia Traffic Condition [RM19,000] – Project No.: 10-21-02-04-002, **Project Supervisor**, Apr – Nov 2009, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
8. Development of An Assessment Tool for Determining SHE COP Compliance by Bus Operators [RM18,500] – Project No.: VS102026, **Project Supervisor**, Jul – Dec 2010, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
9. Characteristic of Motorcycle Fatal Collision [RM19,950] – Project No.: VS102015, **Project Supervisor**, Apr 2010 – Apr 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
10. An Assessment of Child Safety Restraint System in Malaysia [RM19,861] – Project No.: VS102010, **Project Supervisor**, Jan – Dec 2010, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
11. MyVAP, [RM74,685] – Project No.: VS102018, **Project Supervisor**, Dec 2009 – Dec 2010, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
12. A Retrospective Study on Motor Vehicle Side Impact Collisions, [RM35,634] – Project No.: VS102017, **Project Supervisor**, Jan 2010 – Jan 2011, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
13. The Prevalence of Musculoskeletal Disorders Among Malaysian Motorcyclists [RM11,500] – Project No.: 10-21-02-10-002, **Project Supervisor**, Apr – Nov 2009, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
14. Evaluating Helmet Performance and Head Injury in Motorcycle Crashes, [RM76,272] – Project No.: VS102012, **Project Supervisor**, Dec 2009 – Jul 2011, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
15. Analysis of Bus Design in Malaysia with Respect to UNECE R36: A Preliminary Study, [RM18,200] – Project No.: VS102011, **Project Supervisor**, Jan 2010 – Aug 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
16. Critical Factors Associated with Pedestrian casualties in Motor Vehicles Crashes, [RM18,884] – Project No.: VS102009, **Project Supervisor**, Jan 2010 – Jan 2011, Research Grant (Seed), Malaysian Institute of Road Safety Research (MIROS), Malaysia
17. Cost Managing Oral & Maxillofacial Injuries Among Patients Who Were Involved In Road Accident, [RM31,237] – Project No.: 10-21-02-02-003, **Project Supervisor**, Apr – Nov 2009, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
18. Provisional CRASE Crash Center (PC3), [RM31,237] – Project No.: VS102007, **Project Supervisor**, Apr – Nov 2009, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
19. Crash Compatibility between Light and Heavy Vehicles in Malaysia: A Preliminary Study [RM31,237] – Project No.: 10-21-02-08-003, **Project Supervisor**, Apr – Nov 2009, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
20. Spine Injuries among Motorcyclists in Road Traffic Collisions: Phase 1 - Prevalence Study [RM157,000] – Project No.: VS102006, **Project Supervisor**, Apr 2009 – Oct 2010, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia

21. WRRAPP Phase 1 - A Preliminary Study on Effects of Weather Toward Road Accidents [RM15,000] – Project No.: 10-21-02-06-002, **Project Supervisor**, Apr – Nov 2009, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
22. Prevalence of Obstructive Sleep Apnoe Among Commercial Bus Drivers in Klang Valley [RM211,758] – Project No.: 10-21-02-03-002, **Project Supervisor**, July 2008 – Aug 2010, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
23. Design and Development of Energy Absorption Devise System to Enhance Rear Compatibility Between Goods Vehicles (N3 Class) and Passengers Vehicles(M1 Class) [RM 628,840] – Project No.: 10-21-02-08-002, **Project Supervisor**, Aug 2008 – Aug 2010, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
24. Retrospective Study of Single Vehicle Accidents in Urban & Suburban Areas [RM27,900] – Project No.: VS102014, **Project Supervisor**, Jan – Dec 2010, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
25. Development of Emergency Response Model for Ambulance Services [RM 146,596] – Project No.: 10-21-02-03-003, **Project Supervisor**, June 2008 – Dec 2009, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia
26. The Effects of Rear Seat Belt Interventions on Public Awareness, Rear Seat Belt Wearing and Traffic Fatalities and Injuries Among Rear Passenger and Front Occupant [RM370,592], Project No.: 10-21-02-02-002, **Project Supervisor**, June – Dec 2008, Research Grant, Malaysian Institute of Road Safety Research (MIROS), Malaysia

External:

1. The Effects of Policy Measures, Political Governance and Economic Growth on Motor Vehicle Non-fatal Injuries [RM28,000], Researcher, Dec 2010 – Dec 2012, Research University Grant Scheme, Universiti Putra Malaysia, Malaysia
2. Development Of An Integrated Cad And Failure Mode And Effects Analysis System For Mechanical Components [RM191,300], Project No.: 03-01-04-SF0515, Researcher, Dec 2006 – Dec 2008, Science Fund, Ministry of Science, Technology and Innovation, Malaysia
3. Design And Development Of Experimental And Numerical Simulation Models Of Motorcycle Crashes [RM207,500] - Project No.: 03-01-04-SF0549, **Project Leader**, Dec 2006 – Dec 2008, Science Fund, Ministry of Science, Technology and Innovation, Malaysia
4. Development of A.I.-based Machining Parameter Prediction Device with Machine Performance Degradation for Turning Process [RM249,694] – Project No.: 03-01-04-SF0246, **Project Leader**, Dec 2006 – Dec 2008, Science Fund, Ministry of Science, Technology and Innovation, Malaysia
5. Malaysian Road Safety Program IV (RM998k) – Vot: 67106, **Project Leader** for National Vehicle Crash Investigation Study (RM282k), Dec 2005 – Dec 2006, Ministry of Transport, Malaysia
6. Development of New Cutting Tools for Ultra Precision Processing of Materials, (RM8.1m), Development of New Binderless Diamond Layered Wheels for Ultra-Precision Grinding (03-02-06-0060-PR0072/03-03) anchored at UTM, **Coordinator** of UPM, July 2004 – July 2007, Ministry of Science, technology and Innovation, Malaysia

7. Development of Intelligent Process Planning System for Tool and Die Industry (RM173.9k) – Project No.: 09-02-04-0830-EA001, **Principal Researcher**, Jan 2004 – Jan 2007, Ministry of Science, Technology and Innovation, Malaysia
8. Design and Development of Motorcycle Barrier System (RM158.2k) – Project No.: 09-02-04-0830-EA001, **Principal Researcher**, Jan 2004 – Jan 2006, Ministry of Science, Technology and Innovation, Malaysia
9. Vehicle Architecture and Integration (RM2,682,500)– Project No.: 03-02-04-0562-PR0030/10-08; under CNG/DI Engine and Transmission Research Program (RM28m) – Program No.: 03-02-04-0000-PR0030/10, **Researcher**, June 2002 – June 2006, Ministry of Science, Technology and Innovation, Malaysia
10. Development of Dynamic Simulation Solver with Novel Object-Oriented Approach for non-linear Metal Forming (RM172k)– Project No.: 09-02-04-0623-EA001; Vot: 54302, **Project Leader**, April 2003 – April 2006, Ministry of Science, Technology and Innovation, Malaysia
11. Damage Management of Sheet Metal Forming using Virtual Manufacturing (RM168k) – Project No.: 03-02-04-0407-EA001, **Principal Researcher**, July 2002 – July 2005, Ministry of Science, Technology and Innovation, Malaysia
12. Design and Fabrication of a Bullet Proof Vest using a Hybrid Composite Material System [RM165k] – Project No: 03-02-04-0494-EA001; **Principle Researcher**, July 2002 – July 2006, Ministry of Science, Technology and Innovation, Malaysia
13. Characterization, Optimization and Simplification of Computer-Controlled Robotic Systems (RM142k) – Project No.: 09-02-04-0545-EA001; Vot: 54272, **Researcher**, July 2002 – July 2004, Ministry of Science, Technology and Innovation, Malaysia
14. Investigation on the use of modified external skeletal fixator on the bone healing quality, the cost and management in orthopedic fracture treatment (RM185k) – Project No.: 01-02-04-0396-EA001, **Principal Researcher**, June 2002 – June 2004, Ministry of Science, Technology and Innovation, Malaysia
15. Development of Artificial Intelligence based Expert System for Optimum Turning Process (RM 161k) – Project No.: 03-02-04-0171-EA001; Vot.: 54045, **Project Leader**, Jan 2002- Jan 2004, Ministry of Science, Technology and Innovation, Malaysia
16. Development of Design Criteria and Standard for Malaysian Motorcycle Lanes (RM 470k) – Project No: 04-02-04-0046; Vot.: 51543, **Principal Researcher**, April 2000 - Oct 2003, Ministry of Science, Technology and Innovation, Malaysia
17. Motorcycle Safety Program II (RM 1.16m) – Vot: 67106, **Principal Researcher and Head of Injury Control Research Team**, Aug 2001-Dec 2003, Ministry of Transport, Malaysia
18. Online Machining Conditions Acquisition Module for Intelligent Machining System (RM10k) – Vot.: 53038, **Project Leader**, Feb 2001-Feb 2002, Universiti Putra Malaysia

Student Supervision

1. Ng Choy Peng, The Use of Safety Restraints in Passenger Car in Malaysia, Supervisory Committee, 30 Januari 2012, Universiti Putra Malaysia.
2. Hii Siew Chen, Assessment of the influence of parent-child relationship on child road safety, Supervisory Committee, 9 Mac 2012, Universiti Putra Malaysia.
3. Luay Hashim Abbud, Ballistic Impact Performance of Armor Composite Material Targets Under High Velocity Impact, Internal Examiner, 5 Januari 2012, Universiti Putra Malaysia.
4. Faraq Mohamed Shuaeib, Crashworthiness of a New Design of a Motorcycle Helmet, Co-Supervisor, May 1999 – Aug 2003, Universiti Putra Malaysia
5. Harnen Sulistio, Modelling of Motorcycle Accidents at the Non-exclusive Motorcycle Lane Junction in Malaysia, Co-Supervisor, Nov 2000 – Jun 2004, Universiti Putra Malaysia
6. Billiyamin Adeoye Ibitoye, Analysis and Design of Road Safety Barrier on Exclusive Motorcycle Lane, Co-Supervisor, May 2001 – Dec 2004, Universiti Putra Malaysia
7. Yousef Rostami, Application of Fuzzy Approach in Estimating the Demand Function for Ecotourism, Co-Supervisor, Nov 1999 – dropped, Universiti Putra Malaysia
8. Jamilah Bt Mohd Marjan, Modelling of Accidents on Two-Lane Single Carriageway Roads in Malaysia, Co-Supervisor, May 2004 – date, Universiti Putra Malaysia
9. Chiong Kung Kwong, Experimental and Finite Element Wear Analysis for Hard-facing Application, **Main Supervisor**, May 2004 – date, Universiti Putra Malaysia
10. Tan Kean Sheng, Computer Simulation of Motorcycle Crashes, **Main Supervisor**, Dec 2005 – date, Universiti Putra Malaysia
11. Adel Ibrahim Mohamed, Characteristics of Road Accident in Bershazi – Libya, Co-Supervisor, Jan 2006 – to date
12. Cher Dong Theng, Integration Of Computer Aided Design (CAD) And Failure Modes And Effects Analysis (FMEA), Jan 2004 – to date
13. Mohammad Zaihirain bin Mohamed Rasin, Development of Manufacturing Cost Estimation Model for Early Order Stage, May 2006 – to date
14. Tan Cheng Lay, Experimental Motorcycle Crash Test In Automotive Manufacturing Industry, **Main Supervisor**, Jan 2007 – to date, Universiti Putra Malaysia
15. Aliakbar Mazloumi Abokheili, Development Of A Technology Management Systems In Automotive Industries. (Case: Iranian Automotive Industries Irankhodro Or Saipa Industrial Group), Co-Supervisor, Sep 2007 – to date, Universiti Putra Malaysia
16. Solehuddin Shuib, Design and Analysis of Hip Implant in Bone Resorption Environment, Co-Supervisor, Mac 2006 – to date, Universiti Putra Malaysia

17. Mehdi Bayat, Nonlinear Thermoelastic Analysis Of Axisymmetric Functionally Graded Disks, Co-Supervisor, Dec 2007 – Jan 2009, Universiti Putra Malaysia
18. Haslina Arshad, Desktop Virtual Reconfigurable Robot – Centered Flexible Manufacturing Cell, Co-Supervisor, Jan 2008 – Aug 2008
19. Suditama Sulaiman, Numerical and Experimental Study of Heat Transfer Characteristic Heated Tube Immerse in Thermal Energy Storage Material, Co-Supervisor, Nov 1999 – Dec 2008
20. Risby Mohd Sohaimi, Mechanical and Resistance Properties of A Coconut Shell Powder Epoxy Composite (COEX) Subjected to Ballistic Impact Loads, **Main Supervisor**, Dec 2007 – April 2009
21. Low Yee San, Impact Mechanics and Optimization of Automobile Side Impact Metal Beam, **Main Supervisor**, Jul 2008 – to date
22. Ali Reza Mahdavi, Modelling of Traffic Accident of Major Road in Iran, Co-Supervisor, Nov 2001 – to date
23. Soroush Avakh Darestani, Statistical Monitoring of Supplier Performance In A Quality Management System Environment for The Automotive Industry, Co-Supervisor, Jun 2005 – to date
24. Adel Hani Suhail, Continuous Cnc Machine Health Monitoring, Co- Supervisor, Nov 2009 – to date

Master of Science Candidates (by research)

25. Norashikin Nasaruddin, A Comparison of Poisson and Negative Binomial Regression Model with Decision Tree Model for Prediction of Motorcycle Accidents Occurrence, Co-Supervisor, January 2012.
26. Tariq Saad Mujber, Development of a Wireless PC-Controlled Mobile Robot System and Multimedia Based Learning Module, Co-Supervisor, Nov 1999 - June 2001, Universiti Putra Malaysia
27. Tan Chee Fai, Development of Form Feature Recognition System from 3D solid Models, Co-Supervisor, May 1999 - Dec 2001, Universiti Putra Malaysia
28. Azman Senin, Machining Parameters in Wire Cutting Process for Cooling Jig Fabrication, Co-Supervisor, May 1999 - Nov 2002, Universiti Putra Malaysia
29. Norhayati Bt Yahaya, Development of Virtual Manufacturing System for Industrial Sheet Metal Forming, Co-Supervisor, November 1999 – Dec 2004, Universiti Putra Malaysia
30. Yee Chun Kiet, Push Fit UPVC Pipe Joint with Rubber Seal, Co-Supervisor, Nov 1999 – 2004 (dropped), Universiti Putra Malaysia
31. Anizah Bt Kalam, Fatigue Behaviour of Oil Palm Fruit Bunch Fibre/Epoxy Composite Compared to Carbon Fibre/Epoxy Composite at Room Temperature, Co-Supervisor, Nov 1999 - April 2003, Universiti Putra Malaysia
32. Adel Ibrahim M. Bakkar, E-Commerce Implementation for SME in Malaysia, Co-Supervisor, May 2000 – March 2004, Universiti Putra Malaysia
33. Chor Keong Seng, Design and Simulation of Intelligent Fire Fighting Robot, Co-Supervisor, Nov 2000 – Aug 2003, Universiti Putra Malaysia

34. Chiong Kung Kwong, Wear Performance of Cast Manganese Concrete Mixer Paddles with Various High Alloy Hard Facing Materials, Co-Supervisor, Nov 2000 – Aug 2003, Universiti Putra Malaysia
35. Ooi Soo Shen, Cervical Injury Mechanisms and Characteristics in Motorcycle Collisions, **Main Supervisor**, May 2001 – Sept 2003, Universiti Putra Malaysia
36. Chew Chee Leong, Computerized Process Planning and Scheduling for Stamping Die Production, Co-Supervisor, May 2001 – Sept 2004, Universiti Putra Malaysia
37. Sujahtia Tamrin, The Effectiveness of Implementation of Non-exclusive Motorcycle Lanes to Motorcycle Accident in Malaysia, Co-Supervisor, May 2001 – 2006, Universiti Putra Malaysia
38. Tan Kean Sheng, Crashworthiness of Motorcycle Frontal Components, **Main Supervisor**, Nov 2001 – Dec 2004, Universiti Putra Malaysia
39. Tung Sow Hoong, Study on Crash Pattern and Injury Characteristics on Motorcycle Lane, **Main Supervisor**, May 2002 – Nov 2007, Universiti Putra Malaysia
40. Stephen Yong Chi Vui, Development of Vehicle Crash Investigation System, **Main Supervisor**, May 2002 – dropped, Universiti Putra Malaysia
41. Hayder M.A. Ali, Development of Machine Learning Algorithm for Turning Operation, **Main Supervisor**, May 2002 – Oct 2004, Universiti Putra Malaysia
42. Tan Jit Yean, Development of AI-based Machining Models for Turning Operation, **Main Supervisor**, May 2002 – Dec 2004, Universiti Putra Malaysia
43. Ismanizam Binti Abd. Manaf, Comparison of Contact and Non Contact Reverse Engineering Techniques for Free Form Surfaces with CMM and 3D Laser, Co-Supervisor, May 2002 – Jan 2010, Universiti Putra Malaysia
44. Lim Kok Jeng, Design and Development of External Fixation for Fracture Bone, Co-Supervisor, Nov 2002 – Mac 2007, Universiti Putra Malaysia
45. Chin Cheng Aun, Design and Development of Object-oriented Shell Element, **Main Supervisor**, May 2003 – dropped, Universiti Putra Malaysia
46. Siti Zulaika Razali, Fuzzy Logic, **Main Supervisor**, May 2003 – Jan 2010, Universiti Putra Malaysia
47. Risby Mohd Sohaimi, Experimental Damage Investigation of Composite Plates Subjected to Impact Loading, Co-Supervisor, May 2001 – August 2003, Universiti Putra Malaysia
48. Lee Teik Leong, Characterization, Optimization, Simplification and Application of Linear Actuator Using Servo Motor, Co-Supervisor, May 2003 – Jan 2006, Universiti Putra Malaysia
49. Muhammad Mujahid Bin Azni, Finite Element of Crash on Natural Gas Vehicle (NGV) Platform, Co-Supervisor, May 2003 – Jan 2010, Universiti Putra Malaysia
50. Syarlina Binti Saaid, Feature Recognition Algorithm Using Pattern Matching Technique for Prismatic Part, Co-Supervisor, May 2003 – dropped, Universiti Putra Malaysia
51. Kong Hong Shim, Design and Development of Fuzzy-Neural System for Turning Process, **Main Supervisor**, May 2003 – Jan 2009, Universiti Putra Malaysia

52. Chu Bee Wang, Development of Machinability data Model for Peripheral End Milling Process of Wrought carbon Steel Using Artificial Neural Networks, **Main Supervisor**, May 2003 – Oct 2009, Universiti Putra Malaysia
53. Azim Ataollahi Oshkour, Investigation of Crack Propagation in Aluminium Tube Shells, Co-Supervisor, May 2005 – Dec 2009, Universiti Putra Malaysia
54. Hossein Talebi, Finite Element Modelling of Ballistic Penetration into Composites, Co-Supervisor, May 2005 – date, Universiti Putra Malaysia
55. Siti Marhainis binti Abu Mansor, Stress-induced Vibration of Natural Gas Vehicle Platform, Co-Supervisor, May 2005 – March 2009, Universiti Putra Malaysia
56. Mohamad Hayasi, Intersecting and Non-intersecting Volumetric Feature Recognition, **Main Supervisor**, Dec 2005 – Nov 2008, Universiti Putra Malaysia
57. Norfaizah binti Mohd Arsad, Crash Analysis of Natural Gas Vehicle (NGV) Car Platform, Co-supervisor, April 2006 – date, Universiti Putra Malaysia
58. Norwazan binti Abdul Rahim, The Effect of Bulging on Crashworthiness of Front Platform for Natural Gas Vehicle, Co-Supervisor, Jan 2006 – March 2008, Universiti Putra Malaysia
59. Vivi Sisilia, Crashworthiness of Small Car Crashes in Malaysia, **Main-Supervisor**, July 2005 – Feb 2008, graduated, Universiti Putra Malaysia
60. Siti Asmilin binti Ahmad, The use of Plants Aerial Structure in Reducing Motorcyclist Severe Injuries Along Federal Roadsides, Co-Supervisor, September 2005 – dropped, Universiti Putra Malaysia
61. Hamzah bin Adlan, Vehicle Performance Evaluation of Manual Transmission Gear Ratio using Computer Simulation and Analysis for CNG/DI Engine, Co-Supervisor, Dec 2005 – March 2007, Universiti Putra Malaysia
62. Shaik Mohamed bin Mohamed Yusoff, Electrical Discharge Machining of Beryllium Copper Alloys Using Graphite Electrode, Co-Supervisor, Feb 2006 – June 2009, Universiti Putra Malaysia
63. Sepide Najafian, The Effect of Implementing Different Maintenance Policies on The Production Rate of A Flexible Manufacturing Cell, Co-Supervisor, July 2007 – Feb 2009, Universiti Putra Malaysia
64. Amirreza Fahim Golestaneh, Simulation Of Fatigue Crack Propagation Of 2024T351 Aluminium Friction Stir Welding Joints, Co-Supervisor, Sep 2007 – Feb 2009, Universiti Putra Malaysia
65. Wong Choon Yap, Finite Element of A Portal Frame Subjected to Concentrated Impulse Loading, **Main Supervisor**, Sep 2007 – Jan 2010, graduated, Universiti Putra Malaysia
66. Wang Bin, Ai-Based Prediction Model For Degradation Status Of Turning Machine, Co-Supervisor, Sep 2007 – June 2010, Universiti Putra Malaysia
67. Nur Azida Bt Che Lah, Improving The Fatigue Life of Fusion Welding Using Surface Engineering, Co-Supervisor, Dec 2007 – Dec 2009, Universiti Putra Malaysia
68. Hamidah bt Kamis, Road Safety Education and Environmental risk Profile Of Primary Schools in Malaysia, Co-Supervisor, Dec 2007 – to date, Universiti Putra Malaysia
69. Mehdi Zadeh Mohammadi, Simulation and Experiment Of Fatigue Crack In Welded Joint, Co-Supervisor, Jan 2006 – to date, Universiti Putra Malaysia

70. Farzad Mohebbi, Improving The Fatigue Of High Temperature Steel Pipe For Oil And Gas Industries, Co-Supervisor, April 2008 – to date, Universiti Putra Malaysia
71. Fatemeh Firouzi, Strategic Interactions Between Manufacturers For Increasing Demand By Enhancing Service Level, Co-Supervisor, April 2008 – to date, Universiti Putra Malaysia
72. Erialdi bin Syahrial, Development of Service FMEA (SFMEA) System for Automotive Industry, Co-Supervisor, Dec 2008 – to date, Universiti Putra Malaysia
73. Azhar bin Hamzah, Estimating Motorcycle Safety Helmet Crashworthiness With Regards To Its Service Life, **Main Supervisor**, Dec 2008 – to date, Universiti Putra Malaysia
74. Moo Zhen Thong, Development of Energy Recovery Device for Urban Vehicles, **Main Supervisor**, Dec 2008 – to date, Universiti Putra Malaysia
75. Kak D-Wing, Relationship Between Muscle Activation and Head-Neck Response During Crash, **Main Supervisor**, Supervisor, Dec 2008 – to date, Universiti Putra Malaysia
76. Norashikin Bt Nasaruddin, A Comparison of Models for Motorcycle Accidents Occurrence in Malaysia, Co-Supervisor, May 2011 – to date, Universiti Teknologi MARA (UiTM)

Master of Science Candidates (Project by Course work)

77. Franklin Ucar, A Study Towards Reliable Plant Operations—Replacement of Joule Thompson Control Valve, Supervisor , July 2005 – to May 2006
78. Hamzah Talib, Project Management (Design, Tender and Construction Stage), Supervisor , July 2005 – to May 2006
79. Kamarul Adnan Bin Abd Aziz, Development of Virtual CNC Milling Machine by Using Virtual NC Software, Supervisor, July 2005 – May 2006
80. Nazlin Hanie Abdullah, Design of Inoculation System for Biopesticide Production, Supervisor, July 2005 – May 2006
81. Ameer R.S. Abu Qasem New Customisation Process for Task Management in Microsoft Project, Supervisor, Dec 2005 – Jan 2006
82. Mohd Hafiz Azizan, Critical Success Factors of Time Management in Project Implementation, Supervisor, Dec 2005 – Jan 2006
83. Fatah Omran Salem Alghuol, Design for Manufacturing Through Evaluating Different Concepts With Time and Cost by Evaluating Models for Large Mechanical Engineering, Supervisor, July 2006 – May 2007
84. Vishnuvarman A/L Aruganan, Quality Function Deployment Implementation and Performance Assessment, Supervisor, July 2006 – May 2007
85. Khairul Fithri bin Abdul Rashid, Study on Packinghouse Operation of Papaya Fruits for Export, Supervisor, Jan 2007 – Dec 2007

86. Khairil Anwar bin Abu Kassim, Design of Steering Wheels, Co-Supervisor, Jan 2007 – Aug 2008
87. Syed Azuan bin Syed Ahmad, CAD/CAM Application for Small and Medium Furniture Industry / Effective Process Flow for Furniture Industry, Supervisor, Jan 2007 – Dec 2007
88. Nantha Kumaran s/o Thiagarajan, Camera Module Assembly Process / Manufacturing Operation Management, Supervisor, Jan 2007 – completed, Dec 2007
89. Norashikin Nasaruddin, Sarjana Sains (Statistik Gunaan) STA 772, Universiti Teknologi Malaysia, Sept 2011-Jan 2012.

Research Products/ patent:

Patents, Copyrights & Trademarks

1. **S.V. Wong** and A.M.S. Hamouda, *Device and Corresponding Methods for Selecting Machinability Data with Artificial Intelligence*, Malaysian Patent, (Application number: PI20024308), Pending, 2002
2. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, *Pendulum Impact Test Rig*, Malaysian Patent, (Application number: PI20024307), Filed 2002, GRANTED MY-136233-A, 29 August 2008
3. R.S. Radin Umar, **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, Ong Wei Yang, *Motorcycle Helmet for Children*, Malaysian Patent, (Application number PI20031295), Pending, 2003
4. **S.V. Wong** and A.M.S. Hamouda, *Device and Corresponding Methods for Selecting Machinability Data with Artificial Intelligence*, United State Patent, Application Serial No. 10/713,017, Pending, 2003
5. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, *Instrumented Pendulum Impact Test Rig*, United State Patent, Application Serial No. 10/713,018, Filed 2003, GRANTED 6,990,845 B2, 2006
6. **S.V. Wong**, Artificial Intelligence Suite 1.0 for Developer - a compilation of libraries on artificial intelligence into system development, commercialized software package, Copyright Universiti Putra Malaysia, 2005, licensed to KUTKM (1).
7. **S.V. Wong**, Fuzzy Set Handling Library 2.0, Copyright Universiti Putra Malaysia, 2005
8. **S.V. Wong**, Genetic Algorithms Handling Library 2.0, Copyright Universiti Putra Malaysia, 2005
9. **S.V. Wong**, Neural Network Handling Library 2.0, Copyright Universiti Putra Malaysia, 2005
10. A.M.S. Hamouda, **S.V. Wong**, R.S. Radin Umar, M.M. Megat Ahmad, F.M. Shuaeib, EnvSafe, Trademark of Universiti Putra Malaysia, 2004, Filed
11. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, MechT, Trademark of Universiti Putra Malaysia, 2004, Filed
12. **S.V. Wong**, Mandatory Airbag Policy for Road Vehicles: Technical and Implementation Challenges, A policy proposal submitted to the Ministry of Transport Malaysia through Department of Road Transport

- Malaysia, July 2005; Presented to Dato' Sri Chan Kong Choy, The Minister of Transport, , together with Dato' Muhd Safaruddin Muhd Sidek, Ministry Secretary General, Dato' Hj Emran bin Hj Kadir, Director General of Road Transport Department, Director General of Road Safety Department, and Special Officer to the Minister, Published by Department of Standard Malaysia, 2005
13. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, MechT 524 CI-75 with capacity of 25J, 50J and 75J, commercialized impact tester of Malaysian Patent PI20024307 & United State Patent 10/713,018, sold to KUITTHO (1 unit) & KUTKM (2 units), 2005
 14. **S.V. Wong, et al.**, 2006 – 2010 National Strategy Plan on Malaysian Road Safety, Strategy development for the Ministry of Transport, under Mr. Suret Singh, Director General of Road Safety Department, Ministry of Transport, Malaysia, 2005
 15. A.M.S. Hamouda, S.V. Wong, M.S. Risby, M.A.S. Elsadig, K.A.M. Rezali, Combat Armour, Trademark of Universiti Putra Malaysia, 2006, Filed
 16. A.M.S. Hamouda, S.V. Wong (care taker), R.M.Sohaimi, K.A.M. Rezali, A. Hanes M.A.S. Elsadig, A Ballistic Composite Armor And Method Of Making The Same, Malaysian Patent, (Application number PI20071050), Pending, 2007
 17. S.V. Wong and R.S. Radin Umar, National Policy Proposal on Commercial Vehicle Safety (based on the Crash Reconstruction and Findings of Road Crash at km 160.8 North-South Highway, Malaysia on 30 July 2006), Report Submitted to the Ministry of Transport Malaysia Through Secretary General of MOT & Chairman of National Road Accident Investigation Committee for consideration by the Cabinet of Ministers (presented on 7 Feb 2007), September 2006
 18. A.M.S. Hamouda, **S.V. Wong**, R.S. Radin Umar, M.M. Megat Ahmad, F.M. Shuaeib, *Comfortable Motorcycle Helmet*, Malaysian Patent, (Application number PI20040761), Filed March 2004, GRANTED MY-135486-A, April 2008
 19. S. Barkawi, M.Y.Rosnah, **S.V. Wong**, A. Mohd. Fauzy, K. Mohd. Idzwan, *Rear Floor Natural Gas Vehicle Platform*, Malaysian Patent, , Filed 5 August 2005, GRANTED MY-138462-A, 30 June 2009
 20. S. Barkawi, M.Y.Rosnah, **S.V. Wong**, A. Mohd. Fauzy, A.M.Siti Marhainis, *Mounting Bracket*, Malaysian Patent, Filed 5 August 2005, GRANTED MY-139061-A, 28 August 2009
 21. **S.V. Wong** and A.M.S. Hamouda, *Artificial Intelligence Device and Corresponding Methods for Selecting Machinability Data*, Malaysian Patent, (Application number: PI20024308), Filed 18 November 2002, GRANTED MY-141127-A, 15 March 2010

Publications:

1. Mohd. Hafzi Md. Isa, Zulhaidi Mohd. Jawi, Kharudin Rahman, Syazwan solah, Aqbal Hafeez Ariffin, Noor Faradilah aiman, Yahaya Ahmad, Azhar Hamzah, Khairil Anwar Abu Kassim, **S.V.WONG**, The 16th Conference of Automotive Safety Technology, Huang Zhou, China. Organizer,: Society of Automotive Engineers of China. 22nd August ~ 23rd August 2013.
2. **S.V. Wong** and A.M.S. Hamouda, *Device and Corresponding Methods for Selecting Machinability Data with Artificial Intelligence*, Malaysian Patent, (Application number: PI20024308), Pending, 2002
3. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, *Pendulum Impact Test Rig*, Malaysian Patent, (Application number: PI20024307), Filed 2002, GRANTED MY-136233-A, 29 August 2008
4. R.S. Radin Umar, **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, Ong Wei Yang, *Motorcycle Helmet for Children*, Malaysian Patent, (Application number PI20031295), Pending, 2003
5. **S.V. Wong** and A.M.S. Hamouda, *Device and Corresponding Methods for Selecting Machinability Data with Artificial Intelligence*, United State Patent, Application Serial No. 10/713,017, Pending, 2003
6. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, *Instrumented Pendulum Impact Test Rig*, United State Patent, Application Serial No. 10/713,018, Filed 2003, GRANTED 6,990,845 B2, 2006
7. **S.V. Wong**, Artificial Intelligence Suite 1.0 for Developer - a compilation of libraries on artificial intelligence into system development, commercialized software package, Copyright Universiti Putra Malaysia, 2005, licensed to KUTKM (1).
8. **S.V. Wong**, Fuzzy Set Handling Library 2.0, Copyright Universiti Putra Malaysia, 2005
9. **S.V. Wong**, Genetic Algorithms Handling Library 2.0, Copyright Universiti Putra Malaysia, 2005
10. **S.V. Wong**, Neural Network Handling Library 2.0, Copyright Universiti Putra Malaysia, 2005
11. A.M.S. Hamouda, **S.V. Wong**, R.S. Radin Umar, M.M. Megat Ahmad, F.M. Shuaeib, EnvSafe, Trademark of Universiti Putra Malaysia, 2004, Filed
12. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, MechT, Trademark of Universiti Putra Malaysia, 2004, Filed
13. **S.V. Wong**, Mandatory Airbag Policy for Road Vehicles: Technical and Implementation Challenges, A policy proposal submitted to the Ministry of Transport Malaysia through Department of Road Transport Malaysia, July 2005; Presented to Dato' Sri Chan Kong Choy, The Minister of Transport, , together with Dato' Muhd Safaruddin Muhd Sidek, Ministry Secretary General, Dato' Hj Emran bin Hj Kadir, Director General of Road Transport Department, Director General of Road Safety Department, and Special Officer to the Minister, Published by Department of Standard Malaysia, 2005
14. **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, K.S. Tan, MechT 524 CI-75 with capacity of 25J, 50J and 75J, commercialized impact tester of Malaysian Patent PI20024307 & United State Patent 10/713,018, sold to KUITTHO (1 unit) & KUTKM (2 units), 2005
15. **S.V. Wong, et al.**, 2006 – 2010 National Strategy Plan on Malaysian Road Safety, Strategy development for the Ministry of Transport, under Mr. Suret Singh, Director General of Road Safety Department, Ministry of Transport, Malaysia, 2005

16. A.M.S. Hamouda, **S.V. Wong**, M.S. Risby, M.A.S. Elsadig, K.A.M. Rezali, *Combat Armour*, Trademark of Universiti Putra Malaysia, 2006, Filed
17. A.M.S. Hamouda, **S.V. Wong** (care taker), R.M.Sohaimi, K.A.M. Rezali, A. Hanesh M.A.S. Elsadig, *A Ballistic Composite Armor And Method Of Making The Same*, Malaysian Patent, (Application number PI20071050), Pending, 2007
18. **S.V. Wong** and R.S. Radin Umar, *National Policy Proposal on Commercial Vehicle Safety (based on the Crash Reconstruction and Findings of Road Crash at km 160.8 North-South Highway, Malaysia on 30 July 2006)*, Report Submitted to the Ministry of Transport Malaysia Through Secretary General of MOT & Chairman of National Road Accident Investigation Committee for consideration by the Cabinet of Ministers (presented on 7 Feb 2007), September 2006
19. A.M.S. Hamouda, **S.V. Wong**, R.S. Radin Umar, M.M. Megat Ahmad, F.M. Shuaeib, *Comfortable Motorcycle Helmet*, Malaysian Patent, (Application number PI20040761), Filed March 2004, GRANTED MY-135486-A, April 2008
20. S. Barkawi, M.Y.Rosnah, **S.V. Wong**, A. Mohd. Fauzy, K. Mohd. Idzwan, *Rear Floor Natural Gas Vehicle Platform*, Malaysian Patent, , Filed 5 August 2005, GRANTED MY-138462-A, 30 June 2009
21. S. Barkawi, M.Y.Rosnah, **S.V. Wong**, A. Mohd. Fauzy, A.M.Siti Marhainis, *Mounting Bracket*, Malaysian Patent, Filed 5 August 2005, GRANTED MY-139061-A, 28 August 2009
22. **S.V. Wong** and A.M.S. Hamouda, *Artificial Intelligence Device and Corresponding Methods for Selecting Machinability Data*, Malaysian Patent, (Application number: PI20024308), Filed 18 November 2002, GRANTED MY-141127-A, 15 March 2010
23. **S.V. Wong** and M. R. Osman, *Policy of increasing the allowable maximum width for commercial vehicle up to 2600mm with restrictions to vehicle and road types*, Report Submitted to the Ministry of Transport Malaysia, May 2010
24. Fauziana L., Fuad A., M. R. Osman, Mohd. Huzafah M., Azhar H., Mohd. Syazwan S. and **S.V. Wong**, *Key Performance Indicator (KPI) for Periodic Technical Inspection*, Government Concession Contract with Puspakom, Ministry of Transport, Malaysia, Jan 2011
25. **S.V. Wong** and R.S. Radin Umar, *Policy on Disallowing Electric Bicycle on Malaysian Roads*, Ministry of Transport, 2011, Tehcnical Report submitted to the Technical Division, Department of Transport, Ministry of Transport, Malaysia, Report No.: UPM/RSRC/WSV/TR0101/JPJ, 22 August 2001
26. **S.V. Wong**, M. R. Osman, Norlen M., Fadhli Y., H. Z. Zarir and Ilhamah O., *Policy on Decision to Eetain Existing Practice of Operating Express Buses During Wee-hour in Malaysia*, Ministry of Transport, 2009
27. **S.V. Wong**, M. R. Osman, Fuad A. *Policy on Industrial Code of Practice under Occupational Safety Health Act 1994*, adopted from MIROS Safety Health and Environment Code of Practice, April 2010
28. **S.V. Wong**, M. R. Osman, Fuad A. *Policy on Manual for Operation of Tourist Fleet on Safety Health and Environment under Ministry of Tourism*, adopted from MIROS Safety Health and Environment Code of Practice, 2009
29. Reviewer, *The investigation of 3-D elastic coupling vibration and acoustical radiation characteristics of cracked gear in elastic support condition*, april 2013, JMES4518R1 Original Article

30. External Referee, Road Accident Data Development & Enhancement Study, PGSR, Institute of Technology Brunei , Mac 2013
31. Reviewer, Identification and analysis of factors influencing road safety in Regions, Road Safety and Simulation RSS2013 International Conference, October 22-25, 2013, Rome, Italy
32. Reviewer, Simulation of emergency scenarios in tunnels, Road Safety and Simulation RSS2013 International Conference, October 22-25, 2013, Rome, Italy
33. Reviewer, The Analysis of Crashes Reported At or Near Bridges, Road Safety and Simulation RSS2013 International Conference, October 22-25, 2013, Rome, Italy
34. Peer Review, Human Body Modelling of Motorcycle Impacts with Guardrail Posts, 4th Road Safety International Conference, Sydney 4 & 5 March 2013
35. Reviewer, Journal of Mechanical Engineering Science, JMES4518, Title: The three-dimensional elastic coupling vibration and acoustical radiation characteristics investigation of cracked gear in elastic supporting condition, Author(s): Renping shao, Dr; feifie dong; Purong Jia, Dr; Liqun Chen, Dr, 2012
36. Yap Bee Wah, Norashikin Nasaruddin, **Wong Shaw Voon**, and Mohamad Alias Lazim, Proceedings of the World Congress on Engineering 2012 Vol. I, WCE 2012, July 4-6, 2012, London, U.K.
37. Bin Wang, Nawal Aswan Abdul Jalili and **Wong Shaw Voon**, Scientific Research and Essays, Prediction of rotary machinery degradations tatus based on vibration data using back propagation (BP) neural network, Vol. 7(13) pp 1393-1404, 9 april 2012
38. Reviewer, Journal of Mechanical Engineering Science, JMES4064, Title: Dynamic Characteristics of Cracked Gear and Three-dimensional Crack Propagation Analysis, Author(s): Renping shao, ph.D; Purong Jia, PH.D; Feifei Dong, 2012
39. **S.V. Wong** and J.Y. Tan, Fuzzy Set Handling Library Version 2.0: User Manual, Universiti Putra Malaysia, 2005
40. **S.V. Wong** and B.W. Chu, Genetic Algorithm Handling Library Version 1.0: User Manual, Universiti Putra Malaysia, 2005
41. **S.V. Wong** and H.S. Kong, Neural Network Handling Library Version 1.0: User Manual, Universiti Putra Malaysia, 2005
42. **S.V. Wong**, *Proceedings of Mechanical & Manufacturing Engineering Seminar*, Universiti Putra Malaysia, 2005
43. **S.V. Wong** and K.S. Tan, *Operation Manual of MechT™ Impactor – 524 CI-75*, Universiti Putra Malaysia, 2005
44. **S.V. Wong**, A.M.S. Hamouda, F.M. Shuaeib, M.M. Megat Ahmad, R.S. Radin Umar, Envosafe™ Helmet: Engineering Design and Specification, Universiti Putra Malaysia, ISBN: 967-960-172-2, 2004
45. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M. Megat Ahmad, R.S. Radin Umar, *MechT™ Impactor: Engineering Design and Specification*, Universiti Putra Malaysia, ISBN: 967-960-173-0, 2004
46. **S.V. Wong** and N. Ismail, *Proceedings of 2nd Seminar of Computational Engineering Technology*, Universiti Putra Malaysia, 2004

47. **S.V. Wong** (Guest Editor-in-Chief), *Pertanika Journal of Science and Technology*, **12**(2) Supplement, UPM Press, 2004
48. **S.V. Wong** (Guest Editor-in-Chief), *Pertanika Journal of Science and Technology*, **12**(1) Supplement, UPM Press, 2004
49. **S.V. Wong**, M.R. Osman, R.M. Yusoff, and N. Ismail, *Proceedings of 2nd World Engineering Congress: Manufacturing Engineering, Automation and Robotics*, UPM Press, 2002

International Journal with Citation Index & Impact Factor

Note : Underline corresponding author

Cited in ISI's Science Citation Index/ Expanded

As first author and/or corresponding author

1. Ameer Batcha Wahida, Othma Ilhamah, ahmad Mohamad Suffian, Mohd. Fahmi Aimi, Mohamed Norlen, **Shaw Voon Wong**, 'Obstructive sleep apnea among commercial vehicle drivers in Malaysia: Issues and initiatives' Vol. 5, No. 8A2, 80-86 (2013) Health 5 (2013) 80-86
2. **Shaw Voon Wong**, Study on characteristics and causes of traffic crashes and injuries in different road users in West China: a report of Chongqing, *Asia-Pacific Journal of Public Health*, APJPH-12-Jun-439.
3. Choy Peng Ng, Teik Hua Law, **Shaw Voon Wong**, Kulanthayan S., Accident Analysis and Prevention, Factors related to seatbelt-wearing among rear-seat passengers in Malaysia, AAP-2768 10 pages
4. Zulhaidi Mohd. Jawi, Fauziana Lamin, Abdul Rahmat Abdul Manap, fuad Abbas, Khairil Anwar Abu Kassim, S.V. Wong, Automotive Ecosystem in Malaysia – A conceptual Model to Explain Vehicle Ownership an Car Maintenance Issues, *Applied Mechanics and Materials* Vol. 165 (2012) pp 224-231
5. S.S. Ooi, **S.V. Wong**, J.S. Yeap, Radin Umar R.S., Relationship between Cervical Spine Injury and Helmet Use in Motorcycle Road Crashes, *Asia-Pacific Journal of Public Health*, Volume 23, Number 4, July 2011, 608-619.
6. **S.V. Wong**, A.M.S. Hamouda and, M.A. Baradie, Generlized Fuzzy Model for Metal Cutting Data Selection, *Journal of Materials Processing Technologies*, **89-90**, 1999, 310-317
7. **S.V. Wong** and A.M.S. Hamouda, Optimization of Fuzzy Rules Design Using Genetic Algorithm, *International Journal of Advances in Engineering Software*, **31**(4), 2000, 251-262
8. **S.V. Wong**, A.M.S. Hamouda, and M.S.J. Hashmi, Kinematic Contact Impact Algorithm with Friction, *International Journal of Crashworthiness*, **6**(1), 2001, 65-81
9. **S.V. Wong**, A.M.S. Hamouda, and M.S.J. Hashmi, Structural Dynamic Response with Generalised Explicit Difference Models, *International Journal of Crashworthiness*, **6**(4), 2001, 525-538
10. **S.V. Wong** and A.M.S. Hamouda, Development of Genetic Algorithm-based Fuzzy Rules Design for Metal Cutting Data Selection, *Robotics and Computer Aided Manufacturing*, **18** (1) 2002, 1-12
11. **S.V. Wong**, A.M.S. Hamouda and M.S.J. Hashmi, Development of Revolute Joint Element with Rotation Limits, Locking, Resistive Moment and Damping, *Engineering with Computers*, **18**(1), 2002, 1-13

12. **S.V. Wong** and A.M.S. Hamouda, A Fuzzy Logic based Expert System for Machinability Data-on-demand on the Internet, *Journal of Materials Processing Technology*, **124**(1-2), 2002, 57-66
13. **S.V. Wong** and A.M.S. Hamouda, Web-based machinability handbook for metal cutting data selection, *International Journal of Computer Applications in Technology*, **17**(2), 2003, 110-120
14. **S.V. Wong** and A.M.S. Hamouda, The Development of an Online Knowledge-based Expert System for Machinability Data Selection, *Knowledge-Based Systems*, **16**(4), 2003, 215-229
15. **S.V. Wong** and A.M.S. Hamouda, Machinability Data Representation with Artificial Neural Network, *Journal of Material Processing Technology*, **138**(1-3), 2003, 538-544
16. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda and N. Ismail, strategy for generalizing the development of alloy steel fuzzy model for machinability data selection, *Journal of Material Processing Technology*, **155-156**, 2004, 2080-2086
17. H.M.A.A. Al Assadi, **S.V. Wong**, A.M.S. Hamouda, and M. M. H. Megat Ahmad, Development of machine learning strategy for acquiring on-line machining skills during turning process, *Journal of Material Processing Technology*, **155-156**, 2004, 2087-2092
18. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar, A.A. Azhar and M.M.H. Megat Ahmad, Cervical Spine Injuries Sustained by Motorcyclists in Road Crashes in Malaysia, *International Journal of Crashworthiness*, **10**(3), 2005, 295-303
19. K.S. Tan, **S.V. Wong**, R.S. Radin Umar, N.K. Gupta, An Experimental Study of Deformation Behaviour of Motorcycle Front Wheel-type Assembly Under Frontal Impact Loading, *International Journal of Impact Engineering* **32**(10), 2006, 1554-1572 – SCI rated as best 20 Journal in Mechanical Engineering & Highest rated journal in Impact Engineering
20. K.S. Tan, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, M.M.H. Megat Ahmad, Experimental Study on Energy Absorption Characteristics of Motorcycle Front Wheel-tyre Assembly in Frontal Impact, *International Journal of Crashworthiness* **11**(2) 2006, 131-142, SCI rated as Second in Impact Engineering
21. K.S. Tan, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, M.M.H. Megat Ahmad, Empirical model for impact response of motorcycle front spoked wheel–tyre assembly, *Proceedings of Institute of Mechanical Engineers Part D: Journal of Automobile Engineering* **220** (11) 2006, 1547-1563
22. S.H.Tung, **S.V. Wong**, T.H. Law and R.S. Radin Umar, Crashes with roadside objects along motorcycle lanes in Malaysia, *International Journal of Crashworthiness*, April 2008, **13**(2), 205-210
23. K.S. Tan, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, and N.K. Gupta, Impact Behaviour Modeling of Motorcycle Front Wheel-Tyre Assembly, *International Journal of Automotive Technology*, August 2008, **10** (3) 329-339
24. K. S. Tan, W. Tan, **S. V. Wong**, Design of Motorcyclist-friendly Guardrail Using Finite Element Analysis, *International Journal of Crashworthiness*, 2008, **13** (5), 567 – 577
25. H. Talebi, **S.V. Wong**, A.M.S. Hamouda, Finite element evaluation of projectile nose angle effects in ballistic perforation of high strength fabric, *Composite Structure*, 87, 2009, 314–320
26. S.S. Ooi, **S.V. Wong**, J.S. Yeap, R. S. Radin Umar, Relationship Between Cervical Spine Injury and Helmet Use in Motorcycle Road Crashes, *Asia-Pacific Journal of Public Health*, July 2011, 23 (4), 608 - 619

As Co-author

27. F.M. Shuaeib, A.M.S. Hamouda, **S.V. Wong**, M.M.H. Megat Ahmad, R.S. Radin Umar, A new motorcycle helmet liner material: the finite element simulation and design of experiment optimization, *Material and Design*, **28** (1), 2007, 182-195
28. A.B. Ibitoye, A.M.S. Hamouda, **S.V. Wong**, R.S. Radin, Simulation of motorcyclist's kinematics during impact with w-beam guardrail, *Advances in Engineering Software*, **37**(1), 2006, 56-61
29. Anizah Kalam, B.B. Sahari, Y.A. Khalid, **S.V. Wong**, Fatigue behaviour of oil palm fruit bunch fibre/epoxy and carbon fibre/epoxy composites, *Composite Structures*, **71**(1), 2005, 34-44
30. M. Bayat, B.B. Sahari, M. Saleem, Aidy Ali, **S.V. Wong**, Bending analysis of a functionally graded rotating disk based on the first order shear deformation theory, *Applied Mathematical Modelling*, **33**(11), 2009, 4215-4230
31. M. Bayat, B.B. Sahari, M. Saleem, Aidy Ali, **S.V. Wong**, Thermoelastic solution of a functionally graded variable thickness rotating disk with bending based on the first-order shear deformation theory, *Thin-Walled Structures*, **47**(5), 2009, 568-582
32. A.B. Ibitoye, A.M.S. Hamouda, **S.V. Wong**, and R. S. Radin Umar, Simulation Of Motorcycle Crashes With W-Beam Guardrail: Injury Patterns and Analysis, Part H: *Journal of Engineering in Medicine*, 560, 2009,1033-1040

Cited/listed in INSPEC, Compendex, SCOPUS, etc

1. **S.V. Wong**, A.M.S. Hamouda, and M.A. El-Baradie.: Development Of Fuzzy Expert System For Metal Cutting Data Selection, *International Journal of Flexible Automation and Integrated Manufacturing*, **5**, 1997, 79-104
2. S. Harnen, R.S. Radin Umar, **S.V. Wong**, W.I. Wan Hashmi, Motorcycle Crash Prediction Model For Non-Signalized Intersections, *Journal of International Association of Traffic and Safety Sciences*, **27**(2), 2003, 58-65
3. S. Harnen, R.S. Radin Umar, **S.V. Wong**, W.I. Wan Hashmi, Predictive Models For Motorcycle Accidents At Three-Legged Priority Junctions, *Journal of Traffic Injury Prevention*, **4**(4), 2003, 363-369
4. S. Harnen, R.S. Radin Umar, **S.V. Wong**, W.I. Wan Hashmi, Development of Prediction Models for Motorcycle Crashes at Signalized Intersections on Urban Roads in Malaysia, *Journal Of Transportation And Statistics* **7**(2/3), 2004, 27-40
5. T.H. Law, R.S. Radin Umar, **S.V. Wong**, The Malaysia Government's Road Accident Death Reduction Target for Year 2010, *International Association of Traffic and Safety Science*, **29**(1), 2005, 42-49
6. S. Harnen, R.S. Radin Umar, **S.V. Wong**, W.I. Wan Hashmi, Development of Hourly, Daily and Monthly factors and its Applications to Prediction Model for Motorcycle Accidents at Junctions in Malaysia, *REAAA Journal*, **12**(2), 2005, 16-29
7. S. Harnen, R.S. Radin Umar, **S.V. Wong**, W.I. Wan Hashmi, Motorcycle accident prediction model for junctions on urban roads in Malaysia, *Advances in Transportation Studies, an International Journal*, **8**, 2006, 31-40

8. M.S. Risby, **S.V. Wong**, A.M.S. Hamouda, A.R. Khairul, & M. Elsadig, Ballistic Performance of Coconut Shell powder/Twaron Fabric against Non-armour Piercing Projectiles, *Defence Science Journal*, 58(2), 2008, 248-263
9. Sahari, B.B., Mansor, S.M.A., **Wong, S.V.**, Hamouda, A.M., Ahmad, M.F., Rahman, J.A., Khalid, Y.A., Static stiffness and stress distribution of gasoline and natural gas vehicle platforms subjected to torsion loads, *European Journal of Scientific Research*, 30 (2), July 2009, 272-281
10. Adeel H. Suhail, N. Ismail, **S.V. Wong**, N.A. Abdul Jalil, Workpiece Surface Temperature for In-process Surface Roughness Prediction Using Response Surface Methodology, *Journal of Applied Sciences*, 32 (9), Dec 2010, 1059 - 1068
11. Adeel H. Suhail, N. Ismail, **S.V. Wong**, N.A. Abdul Jalil, Cutting Parameters Identification Using Multi Adaptive Network Based Fuzzy Inference System: An Artificial intelligence Approach, *Scientific Research and Essays*, 6 (1), March 2011, 187-195

National/ Regional/ Other International Journal

1. **S.V. Wong** and A.M.S. Hamouda, Fuzzy Rules Optimization in Fuzzy Expert System for Machinability Data Selection: Genetic Algorithms Approach, *Pertanika Journal of Science & Technology* 9(2), 2001, 209-218
2. J.S. Yeap, J.L. Lim, T.Y. Pang, **S.V. Wong**, R.S. Radin Umar, T.H. Law, Patient Perception on the Effectiveness of Shin Pads in Reducing the Severity of Injuries to the Tibia Following Motorcycle Accidents, *International Medical Research Journal* 6(1), 2003, 41-44.
3. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar , A.A. Azhar, J.S. Yeap, M.M.H. Megat Ahmad , Mechanisms of Cervical Spine Injuries for Non-fatal Motorcycle Road Crash, *Medical Journal of Malaysia* 59(2), 2004, 146-152 (listed in PubMed, Medline & SCOPUS)
4. J.Y.Tan, **S.V.Wong**, A.M.S. Hamouda, General Strategies in Developing Alloy Steel Fuzzy Models for Machinability Data Selection of Turning Process, *Pertanika Journal of Science and Technology* 12(2) Supplement, 2004, 177-189
5. F.M. Shuaeib, C.F. Tan, **S.V. Wong**, A.M.S. Hamouda, R.S. Radin Umar, M.H. Megat Ahmad, CAD/CAM Headform for Helmet Testing, *Pertanika Journal of Science and Technology* 12(1) Supplement, 2004, 51-61
6. C.F. Tan, N. Ismail, M.R. Osman, **S.V. Wong**, S. Sulaiman, The Development of Hole Recognition System for Machined Parts, *Pertanika Journal of Science and Technology* 12(1) Supplement, 2004, 1-8
7. F.M. Shuaeib, K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, R.S. Radin Umar, M.M.H. Megat Ahmad, Drop Weight Testing Rig Analysis & Design, *Pertanika Journal of Science and Technology* 12(2) Supplement, 2004, 159-175
8. C.F. Tan, N. Ismail, **S.V. Wong**, S. Sulaiman and M.R. Osman, Development of STEP Hole Recognition System for Computer Aided Process Planning, *Journal of Technology Series A Issue No. 43m 2005* (in press)
9. C.F. Tan, N. Ismail, **S.V. Wong**, S. Sulaiman and M.R. Osman, Development of Hole Recognition System from STEP File, *ASEAN Journal Science and Technology Development*, 22 [3], 2005, 285-295

10. Zaihirain, M.M.R, Napsiah, I., Sapuan, M.S., and **S.V. Wong**, Quick Cost Estimation Model For Early Order Stage, *Journal of Advanced Manufacturing Technology (AMT)*, 3 (1), 2009, 45-72

Scientific & Technical Reports.(Requested / Initiated by MIROS)

Note : Published reports initiated internally

1. Azhar Hamzah, Abdul Rahmat Abdul Manap, Mohd. Huzaifah Muntalip, Mohd. Syazwan Solah, S.V. Wong, MRev 01/2011 – Heavy Commercial passenger Vehicle Service Life in Malaysia.
2. Fauziana Lamin, Hafzi Md. Isa, M. Azrin Zulkifli, Noor Faradila Paiman, Stii Atiqah M. Faudzi, Zarir Hafiz Zulkifli, M. Rasid Osman, Fuad Abas, **S.V. Wong**, National Regulatory Implementation Guideline UNECE WP.29 in Malaysia.
3. Final Research Report An Analysis of the Effectiveness of the Passenger Seatbelt Legislation in Malaysia, Project Leader Dr. Law Teik Hwa, 31 December 2011
4. Azhar H., Yahya A., **S.V. Wong**, Review Report: MRev 04/2009, Child Helmet Efficacy for Motorcycle Use in Malaysia, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2009
5. Muhammad Fadhli Mohd Yusoff, Norlen Mohamed, Ilhamah Othman, Rohayu Sarani and **S.V. Wong**, Research Report: MRR 06/2008, Prevalence of Fatigue Among Commercial Bus Drivers in Malaysia, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008
6. Norlen Mohamed, Muhammad Fadhli Mohd Yusoff, Ilhamah Othman, Rohayu Sarani and **S.V. Wong**, Research Report: MRR 07/2008, Fatigue Among Commercial Bus Drivers in Malaysia : Role of Driving Hours and Single versus Two-Driver Approach, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008
7. **S.V. Wong** et al., Inquiry Report: MIR 03/2008, Cheras Crash Investigation, KM 6.7 Cheras-Kajang Highway, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008
8. **S.V. Wong** et al., Inquiry Report: MIR 1/2007, Kuala Kangsar Crash Investigation, KM 254 North-South Expressway (PLUS), Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2007
9. **S.V. Wong** et al., Inquiry Report: MIR 4/2007, Bukit Gantang Crash Investigation, KM 229 North-South Expressway (PLUS), Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2007
10. **S.V. Wong** et al., Inquiry Report: MIR 6/2008, Puchong Crash Investigation, Batu 10 Puchong Traffic Light Intersection, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008
11. **S.V. Wong** et al., Inquiry Report: MIR 02/2008, Tangkak Crash Investigation, KM146.5 North-South Expressway (PLUS), Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008

12. **S.V. Wong** et al., Inquiry Report: MCAR 01/2008, Pedas Crash Investigation, Batu KM 239.8 Air Keroh-Senawang PLUS Highway at Pedas Exit, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008
13. **S.V. Wong** et al., Inquiry Report: MCAR 03/2008, Gurun Crash Investigation, Batu KM 14.5 Jalan Gurun-Jeniang-Sik, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2008
14. Muhammad Fadhli Mohd Yusoff, Zarir Hafiz Zulkipli, Sharifah Allyana Syed Md Rahim, Norlen Mohamed and **S.V. Wong**, Evaluation Report: MER 04/2009, Road Collisions Involving Express Buses Travelling During Wee Hours (12:00am – 6:00am), Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2009
15. Norlen Mohamed, Muhammad Fadhli Mohd Yusoff, Ilhamah Othman, Zarir Hafiz Zulkipli, Mohd Rasid Osman and **S.V. Wong**, Research Report: MRR 10/2009, An Impact Assessment of Banning Wee-Hour Express Bus Operation, Malaysian Institute of Road Safety Research (MIROS), Kajang,
16. **S.V. Wong** and Mohd Rasid Osman, Safety Evaluation of Motor Vehicle of 2600mm Width on Malaysian Roads, Report Submitted to the Ministry of Transport Malaysia, May 2010
17. Mohd Hafzi, Mohd Khairudin Rahman and **S.V. Wong**, Evaluation Report : MER 05/2009, Magic Guard Seatbelt Adjuster, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2009
18. Ahmad Noor Syukri Zainal Abidin, Mohammad Mahafiz Abdul Rahim, **S.V. Wong** and Radin Umar Radin Sohadi, Research Report: MRR 12/2009, Single-Vehicle Accidents Involving Trees in Malaysia – A Preliminary Study, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2009
19. Norlen Mohamed, Muhammad Fadhli Mohd Yusoff, Ilhamah Othman, Wahida Ameer Batcha and **S.V. Wong**, Evaluation Report : MER 06/2009, The Frequency of Medical Examination as A Pre-Condition for Licensing of Commercial Vehicle Drivers in Malaysia, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2009
20. Norlen Mohamed, Muhammad Fadhli Mohd Yusoff, Ilhamah Othman, Wahida Ameer Batcha and **S.V. Wong**, Evaluation Report : MER 07/2009, Skid Resistance Test at KM406 North-South Expressway (PLUS) near Lembah Beringin, Selangor, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 2009
21. M. R. Osman, Fuad A., Mohamad Suffian a. and **S.V. Wong**, Safety Practices of Bus Operators, The Ingenieur, Board of Engineers Malaysia, Vol. 48, Dec 2010-Feb 2011, 38-41
22. Iskandar A. H., Khairil Anwar A. K. and **S.V. Wong**, Ensuring Safe Vehicles from the Engineering Perspective, Board of Engineers Malaysia, Vol. 48, Dec 2010-Feb 2011, 42-43
23. **S.V. Wong** et al., Inquiry Report: MIR02/2011, Simpang Pulai Crash Investigation, KM15 Cameron Highlands-Simpang Pulai, Malaysian Institute of Road Safety Research (MIROS), Kajang, Selangor, Malaysia, 10 March 2011

Scientific & Technical Reports. (Requested / Initiated by External Parties)

Note : Published report must be submitted to external party.

1. T.Y. Pang, **S.V. Wong**, R.S. Radin Umar, Investigation Report: Crash Investigation and Reconstruction of FIAT Brava case for Jerneh Insurance Berhad, Report No.: UPM/RSRC/RAI/01/01, February 2001
2. **S.V. Wong** and R.S. Radin Umar, Review on New Registration of Electric Scooter in Malaysia, Tehcnical Report submitted to the Technical Division, Department of Transport, Ministry of Transport, Malaysia, Report No.: UPM/RSRC/WSV/TR0101/JPI, 22 August 2001
3. **S.V. Wong**, et al. , Malaysian Standard MS 75:2002: Specification for anchorages for seat belts (First revision), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2002.
4. **S.V. Wong**, Malaysian Standard MS 12097-1:2008: Road vehicles – Airbag components – Part 1: Vocabulary (ISO 12097-1:2002, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2002.
5. **S.V. Wong**, Independent Expert Opinion Regarding the Malaysian Patent Specification MY-106710-A: Fully Automatic Electronic Cradle, served as expert evidence / opinion for Malaysian Kuala Lumpur High Court (Commercial Division), Suit Number D7-22-1411-2002 ,2002
6. **S.V. Wong**, Independent Expert Opinion on Comparison between the Malaysian Patent Specification MY-106710-A (Fully Automatic Electronic Cradle) and the Electronic Automatic Baby Cradle Model No. 2002G-1, served as expert evidence / opinion for Malaysian Kuala Lumpur High Court (Commercial Division), Suit Number D7-22-1411-2002 ,2002
7. **S.V. Wong**, Independent Expert Opinion on Plaintiffs’ Independent Expert Opinion against Defendants’ Affidavit: Reply to the Opinion of Mr. Sahani from SIRIM, served as expert evidence / opinion for Malaysian Kuala Lumpur High Court (Commercial Division), Suit Number D7-22-1411-2002 ,2002
8. T.H. Law, R.S. Radin, S. Kulanthayan, and **S.V. Wong**, The Malaysian Government Road Accident Death Reduction Target for Year 2010, Research Report Submitted to Ministry of Transport Malaysia, Report No: UPM/RSRC/RR1/2002, 2002
9. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar, A.A. Azhar, M.M.H. Megat Ahmad, T.H. Law, Investigation into Neck Injuries Sustained by Malaysian Motorcyclists, Research Report Submitted to Ministry of Transport Malaysia, Report No:UPM/RSRC/RR3/2002, 2002

10. **S.V. Wong**, et al. , Malaysian Standard MS 1154:2003: Specification for webbing for car seat (First revision), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2003
11. **S.V. Wong**, et al. , Malaysian Standard MS 1175:2003: Specification for Seat Belts for Motor Vehicles (First Revision), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2003.
12. F.M. Shuaeib, A.M.S. Hamouda, **S.V. Wong**, M.M.H. Megat Ahmad, R.S. Radin Umar, The use of the EPP Foam as a Liner Material for Motorcycle Helmet – Finite Element Simulation and DOE Optimization, in: R&D at UPM Part 1: Creating New Frontiers of Innovative Research; First Edition, 173-174, 2003
13. G.B.H. Edwin, T.H. Law , **S.V. Wong**, R.S. Radin Umar, Development of An Integrated Geographical Information System (GIS) for Road Accident Analysis Application, in: R&D in UPM Part 1: Creating New Frontiers of Innovative Research; First Edition, 189-190, 2003
14. **S.V. Wong**, Malaysian Standard MS 1154:2003: Specification for webbing for car seat belts (First Revision) Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2003.
15. **S.V. Wong** and R.S. Radin Umar, Report on Crash Investigation and Reconstruction of Accident (Kajang-Cheras), Royal Police of Malaysia Investigation Number: KS(T)5368/03 SDR:-130,131,132,133, Police Station and Appeal Number: KAJANG RPT(7):10574103, Report Submitted to The Royal Police of Malaysia, February 2004
16. S.S. Ooi, **S.V. Wong**, M.M.H. Megat Ahmad, A.A. Azhar, H. Singh, and R.S. Radin Umar, Injury Mechanisms of Cervical Spine in Motorcycle Accidents, in: R&D at UPM Part 2: Research Snapshots (New Findings, Research Highlights and New Achievements); First Edition, 255-256, 2004
17. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, Napsiah Ismail and M.R. Osman, Turning Operation of Alloy Steel with Fuzzy Models, in: R&D at UPM Part 2: Research Snapshots (New Findings, Research Highlights and New Achievements); First Edition, 346-347, 2004
18. K.S. Tan, **S.V. Wong**, R.S. Radin Umar, M.M.H. Megat Ahmad, and A.M.S. Hamouda, Crashworthiness of Motorcycle Frontal Components, in: R&D at UPM Part 2: Research Snapshots (New Findings, Research Highlights and New Achievements); First Edition, 387-388, 2004
19. R.S. Radin Umar, A.B. Ibitoye, **S.V. Wong**, A.M.S. Hamouda and T.H. Law, Need for an Alternative Guardrail for Safer Motorcycling, in: R&D at UPM Part 2: Research Snapshots (New Findings, Research Highlights and New Achievements); First Edition, 406-407, 2004

20. S.H. Tung, **S.V. Wong**, T.H. Law and R.S. Radin Umar, Study on Crash Pattern and Injury Characteristics on Motorcycle Crashes, which is Roadside Furniture Related, along Exclusive Motorcycle Lane, in: R&D at UPM Part 2: Research Snapshots (New Findings, Research Highlights and New Achievements); First Edition, 408-409, 2004
21. S.C.V. Yong, **S.V. Wong**, M.M.H. Megat Ahmad, The Classification Level of Damage and Estimation of Repair Cost for Crashed Vehicles, in: R&D at UPM Part 2: Research Snapshots (New Findings, Research Highlights and New Achievements); First Edition, 424-425, 2004
22. **S.V. Wong**, Independent Expert Opinion on a Road Accident at KM11, Jalan Mentiri/Kota Batu, Bandar Seri Begawan, Brunei Darussalam on 24th March 2004, High Court of Brunei Darussalam, Holden at Bandar seri Begawan, HCCS No. 27 of 2007, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, March 2004
23. **S.V. Wong**, Malaysian Standard MS 2002:2005: Road vehicles – Location of Hand Controls, Indicators and Tell-Tales in Motor Vehicles (ISO 4040:2001, MOD), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2005
24. **S.V. Wong**, Independent Expert Opinion on Road Crash at KM 2 Danau-Tutong Road (Jalan Danau/Tutong), Brunei Darussalam on 22 January 2003, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan, HCCS No. 6 of 2004, Report Submitted to Takaful IBB Berhad and Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Affidavit Evidence-in-chief for High Court, January 2005
25. **S.V. Wong**, General Expert Opinion on Decision of High Court of Brunei Darussalam in respect of a Road Crash at Traffic Junction of Jalan Kumbang Pasang, Jalan Kiulap and Jalan Haji Basir, Brunei Darussalam on 4th January 2001, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan, HCCS No. 85 of 2003, Report Submitted to Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Affidavit Evidence-in-chief for High Court, March 2005
26. **S.V. Wong**, Comments and Independent Expert Opinions on Report of Bicycle Safety related to Road Crash at KM 2 Danau-Tutong Road (Jalan Danau/Tutong), Brunei Darussalam on 22 January 2003, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan, HCCS No. 6 of 2004, Report Submitted to Takaful IBB Berhad and Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Affidavit Evidence-in-chief for High Court, April 2005
27. **S.V. Wong**, T.H. Law, R.S. Radin Umar, Study on Road Worthiness Inspections of Puspakom, Report Submitted to Pusat Pemeriksaan Kenderaan Berkomputer Sdn Bhd (PUSPAKOM), February 2005
28. **S.V. Wong**, A.M.S. Hamouda, M.M. Dadang, R.S. Radin Umar, Study on Crashworthiness Investigation of Puspakom, Report Submitted to Pusat Pemeriksaan Kenderaan Berkomputer Sdn Bhd (PUSPAKOM), August 2005
29. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at Traffic Junction of Jalan Kebangsaan next to SMJA Secondary School and SOAS College, Bandar Seri Begawan, Brunei Darussalam on 30th September 2001, Intermediate Court of Brunei Darussalam, Holden at Bandar Seri Begawan, ICCS No. 44 of 2004, Report Submitted to Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Affidavit Evidence-in-chief for Intermediate Court, August 2005
30. **S.V. Wong**, Crash Reconstruction and Expert Opinion on Road Crash At km2 Jalan Hamzah, Kuala Kubu Bharu, Selangor DE on 5 August 2005, Royal Police of Malaysia Investigation Number: KS(T)1045/05, Police Station and Appeal Number: IPPD Hulu Selangor, Report Submitted to the Royal Police of Malaysia Through Traffic Police Chief of District Hulu Selangor, Affidavit Evidence-in-chief for High Court, September 2005

31. **S.V. Wong**, Independent Expert Opinion Regarding the Malaysian Patent Specification MY-116016-A: A Self-Cleaning Sludge Separator for Palm Oil Industry, A report submitted to Chee, Amimi & Adrian Han, Advocates & Solicitors, September 2005
32. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at Sekolah Rendah Dato Mohd Yassin Mentiri, Brunei Darussalam on 21st July 2003, Intermediate Court of Brunei Darussalam, Holden at Bandar Seri Begawan, ICCS No. 104 of 2003, Report Submitted to Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Affidavit Evidence-in-chief for Intermediate Court, October 2005
33. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at Traffic Junction of Jalan Tutong / Jerudong, Brunei Darussalam on 19 February 2003, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan, HCCS No. 234 of 2004, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Affidavit Evidence-in-chief for High Court, November - December 2005
34. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at Traffic Junction of Jalan Muara / Jerudong, Brunei Darussalam on 17 July 2003, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, December 2005
35. **S.V. Wong**, Malaysian Standard MS 1884:2005: Road vehicles – Protection of the driver against the steering mechanism in the event of impact – Specification, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2005.

36. **S.V. Wong**, Malaysian Standard 6487:2005: Road vehicles – Measurement techniques in impact tests – Instrumentation, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2005.
37. **S.V. Wong**, et al., Malaysian Standard MS 1885:2005 : Road Vehicles – Passenger Cars – Arrangement of Foot Controls, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2005.
38. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at Traffic Junction of Muara-Tutong Highway, Bandar Seri Begawan, Brunei Darussalam on 29th February 2004, Intermediate Court of Brunei Darussalam, Holden at Bandar Seri Begawan, ICCS No. 27 of 2005, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, June 2006
39. **S.V. Wong** and R.S. Radin Umar, Crash Reconstruction and Expert Opinion on Road Crash at km 160.8 North-South Highway, Malaysia on 30 July 2006, Report Submitted to the Ministry of Transport Malaysia Through Secretary General of MOT & Chairman of National Road Accident Investigation Committee for consideration by the Cabinet of Ministers (presented on 7 Feb 2007), September 2006
40. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at km 32 of Tutong-Muara Highway, Bandar Seri Begawan, Brunei Darussalam on 29th September 2004, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan, HCCS No. 180 of 2005, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Nov 2006
41. **S.V. Wong**, Independent Expert Opinion: Feedback on Short Internet Animation Proposal for Road Safety Department, Report Submitted to the Ministry of Transport Malaysia Through Director General of Road Safety Department, November 2006
42. **S.V. Wong**, Malaysian Standard MS 13215:2006: Part 3:2006, Road vehicle – Reduction of misuse risk of child restraint systems – Part 3: Prediction and assessment of misuse by Misuse Mode and Effect Analysis (MMEA), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2006.
43. **S.V. Wong**, Malaysian Standard MS 12097-2:2008: Road vehicles – Airbag components – Part 2: Testing of airbag modules (ISO 12097-2:1996, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2006.
44. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash on Jalan Tutong/Seria, Kampong Agis-Agis, Lumut, Belait, Brunei Darussalam on 10 April 2002, Intermediate Court of Brunei Darussalam, Holden at Bandar Seri Begawan, ICCS No. 8 of 2006, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, March 2007
45. **S.V. Wong**, Assessment Report On Supporting Information and Evidence To Reconstruct a Crash at Km426.3 of North South Highway, Malaysia On 10th August 2003, submitted to Naicker & Associates, Advocates & Solicitors, 6th Floor, Wisma Kosas, Jalan Melayu, 50100 Kuala Lumpur, Malaysia (on behalf of Kurnia Insurans (Malaysia) Berhad), April 2007
46. **S.V. Wong**, Crash Reconstruction and Expert Opinion on A Road Crash at Km426.3 of North South Highway, Malaysia on 10th August 2003, submitted to Naicker & Associates, Advocates & Solicitors, 6th Floor, Wisma Kosas, Jalan Melayu, 50100 Kuala Lumpur, Malaysia (on behalf of Kurnia Insurans (Malaysia) Berhad), May 2007
47. **S.V. Wong**, Assessment Report On Supporting Information and Evidence To Reconstruct at km 2 In front of No 152, Jalan Pantai Kuala Kurau On 24th July 2005, Taiping Sessions Court (Suit No: 53-291-05), Kurnia Insurans (Malaysia) Berhad, June 2007

48. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at km 2 In front of No 152, Jalan Pantai Kuala Kurau On 24th July 2005, Taiping Sessions Court (Suit No: 53-291-05), Kurnia Insurans (Malaysia) Berhad, June 2007
49. **S.V. Wong**, Assessment Report on Supporting Information And Evidence To Reconstruct A Crash At Km23 Of Jalan Masai Lama, Masai, Johor, Malaysia On 28 June 2004, Sessions Court Holden at Johor Bahru, Johor, Malaysia (SCS No. 53-545 of 2005), Malaysian Assurance Alliance Berhad, August 2007
50. **S.V. Wong**, Assessment Report on Supporting Information and Evidence to Reconstruct a Crash at Jalan Bukit Minyak, Sebarang Perai Tengah, Penang on 30 January 2005, Kurnia Insurans (Malaysia) Berhad, October 2007
51. **S.V. Wong**, Assessment Report on Supporting Information and Evidence to Reconstruct a Crash at KM47 of Jalan Kelatan/Kemaman on 17 August 2001, Kurnia Insurans (Malaysia) Berhad, October 2007
52. **S.V. Wong**, Expert Opinion on Traffic Accident Investigation Report by Accident Investigation Services Pty Ltd pertaining to a Road Crash on Jalan Tutong/Seria, Kampong Agis-Agis, Lumut, Belait, Brunei Darussalam on 10 April 2002, Intermediate Court of Brunei Darussalam, Holden at Bandar Seri Begawan (ICCS No. 8 of 2006), Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Brunei Darussalam, October 2007
53. **S.V. Wong**, Independent Expert Opinion on Malaysian Patent MY-123868-A (A Liquid Storing and Dispensing Means) and IBC Liquid Transfer System, PC Kok & Co.(Advocates & Solicitors), Malaysia, Nov 2007 – Jan 2008
54. **S.V. Wong**, Independent Expert on Injury Severity Reduction by Wearing Driver Seatbelt in a Traffic Collision involving BT3923, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Brunei Darussalam, 21 September 2008
55. **S.V. Wong**, Independent Expert Opinion on Road Accident at the vicinity of Jalan Selekoh Kg Bator Jelawat, Bachok, Kelantan, Malaysia on 21 December 2005 , Takaful Ikhlas Sdn. Bhd., Kuala Lumpur, Malaysia, November 2008
56. **S.V. Wong**, Independent Expert Opinion on a Road Crash on a Road Accident at KM6, Jalan Tutong / BSB Highway on 7 June 2007, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan HCCS No. 103 of 2008, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, November 2008
57. **S.V. Wong** et al., as Chairman, Technical Committee of Road Vehicle (MS 1852:2005) – Lateral Protection for Goods Vehicles, Trailers and Semi-Trailers, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia , August 2008.
58. **S.V. Wong** et al., as Chairman, Technical Committee of Road Vehicle (MS ISO13215-2:2006) – Reduction of Misuse Risk Of Child Restraint Systems – Part 2: Requirements and Test Procedures for Correct Installation (Panel Method) – ISO13215-2:1999, IDT, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2008
59. **S.V. Wong** et al., as Chairman, Technical Committee of Road Vehicle (MS ISO13215-3:2006) – Reduction of Misuse Risk Of Child Restraint Systems – Part 3: Prediction and Assessment of Misuse By Misuse Mode and Effect Analysis (MMEA) – ISO13215-3:1999, IDT, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2008
60. **S.V. Wong** (as Malaysian Expert), Sharp Edge Contact of Guardrail During Motorcycle-Guardrail Collision, Paper brought forward and presented by Edoardo Gianotti, The Secretary, in 44th UNECE WP

- 29 GRSP Plenary Meeting, 10-12 December 2008, agenda item 14(a), United Nations, Geneva, Document No: GRSP-44-09, 2008
61. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Crash at KM 2 in Front of No 152, Jalan Pantai on 24th July 2005, Taiping Sessions Court, Suit No: 53-291-05 (AA-05-709), Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, June 2007
 62. **S.V. Wong**, Assessment Report on Supporting Information and Evidence to Reconstruct a Crash at Jalan Bukit Minyak, Sebarang Perai Tengah, Penang on 30 January 2005, Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, October 2007
 63. **S.V. Wong**, Independent Expert Opinion on Malaysian Patent MY-123868-A (A Liquid Storing and Dispensing Means) and IBC Liquid Transfer System, PC Kok & Co. (Advocates & Solicitors), Malaysia, November 2007
 64. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Crash at KM47 of Jalan Kuantan/Kemaman on 17 August 2001, Kuantan Session Court (Suit no 53-63-2003), Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, January 2008
 65. **S.V. Wong**, Independent Expert, Crash Reconstruction and Expert Opinion on a Road Crash on a Road Accident at Traffic T-Junction of Muara / Jerudong Highway, Brunei Darussalam on 17 July 2003, High Court of Brunei Darussalam, Holden at Bandar Seri Begawan HCCS No. 31 of 2006, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, Nov 2007 – Jan 2008
 66. **S.V. Wong**, Independent Expert, Crash Reconstruction and Expert Opinion on Road accident at Simpang 396-93-150 Kg. Kerudong, Brunei Darussalam, Summons No. 139 of 2008, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, June 2008 – Nov 2008
 67. **S.V. Wong**, et al., Malaysian Standard MS ISO 1853:2005, Road Vehicles-The Behaviour of The Structure of The Impacted Vehicles in a Rear-End Collision-Specification, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2007
 68. **S.V. Wong**, et al., Malaysian Standard MS ISO 6813:2008, Road vehicles – Collision classification – Terminology (MS ISO 6813:1998, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2007
 69. **S.V. Wong**, (as Malaysian Expert & head of Malaysian Delegation), Report on 2nd Plenary Meeting of ISO/PC 241, Road-traffic Safety Management Systems, February 10 - 13, 2009 – SIRIM Berhad, Malaysia, Feb 2009
 70. **S.V. Wong** (as Malaysian Expert & head of Malaysian Delegation), Assessment of child helmet efficacy for motorcycle use in Malaysia, in 148th Session UNECE WP29 the World Forum for Harmonization of Vehicle Regulations, 23-26 June 2009, United Nations, Geneva, Document No: WP29-148-16, 2009
 71. **S.V. Wong** (as Malaysian Expert & head of Malaysian Delegation), UNECE WP.29 Regulation implementation in Malaysia: An update, in 148th Session UNECE WP29 the World Forum for Harmonization of Vehicle Regulations, 23-26 June 2009, United Nations, Geneva, Document No: WP29-148-15, 2009
 72. **S.V. Wong** (as Malaysian Expert & head of Malaysian Delegation), Head of Delegation for Malaysia, Project Committee on Road Traffic Safety Management System (ISO/PC241), Standard Council of Canada, Ottawa, Canada, 14 – 17 Sept 2009

73. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Accident at KM 12, Jalan Mempaga to Kampong Cinta Manis, Bentong, Pahang on 6th June 2006, Sessions Court of Raub, Pahang SCCA No. 53-91-2006 (CA-3-06-000062), Kurnia Insurance (Malaysia) Berhad, Malaysia, 31 December 2009
74. **S.V. Wong**, et al., as Chairman of Technical Committee, Malaysian Standard MS 1175:2003: Specification for Seat Belts for Motor Vehicles (Second Revision), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2009.
75. **S.V. Wong**, et al., Malaysian Standard MS 996: Part 2:2007 Motorcycle Chains and Sprockets – Part 2: Motorcycle Sprockets – Specification, Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2009.
76. **S.V. Wong**, Crash Reconstruction and Expert Opinion on a Road Accident at Location W2 of Jalan Maulana, Kuala Belait, Brunei Darussalam on 4th October 2008, High Court of Brunei Darussalam, Susanna Lim Partnership, Advocates & Solicitors, Bandar Seri Begawan, Negara Brunei Darussalam, 2009
77. **S.V. Wong**, et al., Malaysian Standard MS ISO 6725:2006 : Road vehicles – Dimensions of Two-Wheeled Mopeds and Motorcycles – Terms and Definiton (ISO 6725:1981, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2006.
78. **S.V. Wong**, et al., Malaysian Standard MS ISO 11838:2006 : Motorcycle and Motorcycle – Rider Kinematics - Vocabulary (ISO 11838:1997, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2006.
79. **S.V. Wong**, et al., Malaysian Standard MS ISO 6726:2006 : Mopeds and Motorcycles with Two Wheels – Masses – Vocabulary (ISO 6726:1988, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2006.
80. **S.V. Wong**, et al., Malaysian Standard MS ISO 6727:2006 : Road Vehicles – Motorcycles – Symbol for Controls, Indicators and TellTales (ISO 6727:1981, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2006.
81. **S.V. Wong** (as Malaysian Expert & head of Malaysian Delegation), ISO/PC 241 Road Traffic Safety Management Systems, Beijing Friendship Hotel, Beijing, China, 22 – 26 Mar 2010
82. **S.V. Wong**, et al., Malaysian Standard MS ISO 12353-2:2008 Road Vehicles – Traffic Accident Analysis – Part 2: Guidelines for The Use of Impacat Severity Measures (ISO 12353-2:2003, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, May 2010

83. **S.V. Wong** (as Malaysian Expert & head of Malaysian Delegation), 35TH ISO/TC 22 Road Vehicles, Beijing Friendship Hotel, Beijing, China, 8 –10 June 2010
84. **S.V. Wong**, et al., Malaysian Standard MS ISO 1025:2008, Wheel Rims for Motorcycle and Assembly – Specification (first revision), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2010
85. **S.V. Wong** (as Malaysian Expert & head of Malaysian Delegation), Report on The 4th Plenary Meeting of ISO/PC 241 – Road Traffic Safety Management Systems, Beijing, 22 - 25 March 2010
86. **S.V. Wong**, et al., Malaysian Standard MS ISO 12097-1:2008 Road Vehicles – Airbag Components – Part 1: Vocabulary (ISO 12097-1:2002, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, May 2010
87. **S.V. Wong**, et al., Malaysian Standard MS ISO 12097-2:2008 Road Vehicles – Airbag Components – Part 2: Testing of Airbag Modules (ISO 12097-2:1996, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, May 2010
88. **S.V. Wong**, et al., Malaysian Standard MS ISO 12097-3:2008 Road Vehicles – Airbag Components – Part 3: Testing of Inflator Assemblies (ISO 12097-3:2002, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, May 2010
89. **S.V. Wong**, et al., Malaysian Standard MS ISO 12353-1:2008 Road Vehicles – Traffic Accident Analysis – Part 1: Vocabulary (ISO 12353-1:2002, IDT), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, May 2010
90. **S.V. Wong**, Independent Expert Opinion on Road Collision at the Entrance of the Jambatan Kampung Bintang, Setiu, Terengganu SCCA No. 53-646-2009 (JA-3-08-00373) on 16 July 2008, involving vehicle number JDB5788 and JHE3357, Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, April 2010
91. **S.V. Wong**, Independent Expert Opinion on Road Collision at KM 23.6 of Silk Highway on 27 April 2006, Bandar Baru Bangi SCCA 53-80-2007 (AB-3-05-002083), Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, 16 June 2010
92. **S.V. Wong**, Independent Expert Opinion on Traffic Collision on Jalan Batu Kawa Malihah/Matang on 18 June 2009, involving vehicle number QAN7657 and KS4951Q, Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, 29 August 2010
93. **S.V. Wong**, Report of Thesis Examination, Pengoptimuman Berterusan Pintar bagi Sistem Trafik Teragih, Universiti Kebangsaan Malaysia, 20 March 2011
94. **S.V. Wong**, et al., Malaysian Standard MS ISO 594:2010, Road Vehicles – Retraining Devices For Child Occupants of Power-Driven Vehicles – Specification (second revision), Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Malaysia, 2011
95. **S.V. Wong**, Independent Expert Opinion on a Road Collision at the Junction of Jalan Sejahtera 1 / JalanKebangsaan 19, Skudai, Johor on 6 September 2007 at about 18:00 hours, Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, 17 April 2011
96. **S.V. Wong**, Preliminary findings on an accident involving vehicle no: JCA 3865 on 11/06/2005, H-3-05-000429, Kurnia Insurans (Malaysia) Berhad, Kuala Lumpur, Malaysia, 5 July 2011

Papers in Proceedings of International Conference

1. S.V. Wong, Road Safety Research and Policy, Keynote Address: 11th World Conference on Injury and Prevention and Safety Promotion Conference, 1-4 October 2012, Wellington, New Zealand
2. K.S. Tan, S.V. Wong, M.M.H. Megat Ahmad, R.S. Radin Umar, FE Modelling of a Fully Defo0rmable Motorcycle Wire-spoke Wheel, ICrash 2012, Milan Itali, 18-20 July 2012.
3. **S.V. Wong**, A.M.S. Hamouda, and M.A. El Baradie, Development of Fuzzy Expert System for Machinability Data Selection. In: Proc. 2nd International Conference on the Application of Numerical Methods in Engineering, 23-25 June 1997, UPM, Malaysia, 1997, 551-562
4. **S.V. Wong** and A.M.S. Hamouda, Fuzzy Rules Optimization in Fuzzy Expert System for Machinability Data Selection: Genetic Algorithms approach, in: Proc. World Engineering Congress'99, Kuala Lumpur, 19th-21st July 1999, 331-336
5. **S.V.Wong**, A.M.S. Hamouda, and M.S.J. Hashmi, Numerical Modeling and Simulation of Fixed Rectangular Frames under Impact Loading, In: Proc. 4th. Asia-Pacific Structural Engineering & Construction Conference APSEC2000, 13-15th. September 2000, Kuala Lumpur, Malaysia, 433-441
6. **S.V.Wong**, A.M.S. Hamouda, and M.S.J. Hashmi, Dynamic Response of Tapering Cantilevers Subjected to Tip Impulse Loading, In: Proc. 4th. Asia-Pacific Structural Engineering & Construction Conference APSEC2000, 13-15th. September 2000, Kuala Lumpur, Malaysia, 9-17
7. **S.V. Wong**, and A.M.S. Hamouda, Artificial Neural Network For Turning Operation Of Wrought Carbon Steel. In Proc. of the International Conference on Flexible Automation and Intelligent Manufacturing (FAIM'01), 16-18 July 2001, Dublin, 43-51
8. T. S. Mujber, A.M.S. Hamouda, **S.V. Wong**, N. Ismail and M.R. Osman, Online Multimedia Modulus For Robot Technology Teaching And Training, . In Proc. of the International Conference on Flexible Automation and Intelligent Manufacturing (FAIM'01), 16-18July 2001, Dublin, 1069-1078.
9. J.Y. Tan, **S.V. Wong** and A.M.S. Hamouda, Development of Fuzzy Models in Turning Process of Alloy Steel, in: Proc International Conference on Artificial Intelligence in Engineering & Technology, Kota Kinabalu, Malaysia, 17-18 June 2002, 750-756
10. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar, J.S. Yeap, H. Singh, M.M.H. Megat Ahmad, Real-world Cervical Injury Investigation in Motorcyclist Non-fatal Road Crashes Using Biomechanics Knowledge, in: Proc. Kuala Lumpur International Conference on Biomedical Engineering 2002, Kuala Lumpur, Malaysia, 5-8 June 2002, 185-187
11. R.M. Sohaimi, A.M.S. Hamouda, E. Mahdi, **S.V. Wong** and F.M. Shuaeib, Damage Response of Natural Fibre Reinforced Composite Plates Subjected to Low Impact Velocity, in: Proc. 4th International Conference of Mechanics and Materials in Design, Nagoya, Japan, 5-8 June 2002, 35
12. J.Y. Tan, **S.V. Wong**, and A.M.S. Hamouda, Generalized Fuzzy Model of Carbon Steel and Alloy Steel for Machinability Data Selection, in: Proc. 4th International Conference of Mechanics and Materials in Design, Nagoya, Japan, 5-8 June 2002, 81-82
13. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat, R.S. Radin Umar, Design, Development and Analysis of Instrumented Pendulum Impact Test System for Crashworthiness Study, in: Proc. 4th International Conference of Mechanics and Materials in Design, Nagoya, Japan, 5-8 June 2002, 113-114

14. C.F. Tan, N. Ismail, M.R. Osman, **S.V. Wong**, S. Sulaiman, The Development of Hole Recognition System for Machined Parts, in: Proc. 2nd World Engineering Congress: Manufacturing Engineering, Automation & Robotics, Kuching, Sarawak, Malaysia, 22-25 July 2002, 19-22
15. F.M. Shuaeib, C.F. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, R.S. Radin Umar, CAD/CAM of Headform for Helmet Testing, in: Proc. 2nd World Engineering Congress: Manufacturing Engineering, Automation & Robotics, Kuching, Sarawak, Malaysia, 22-25 July 2002, 124-129
16. F.M. Shuaeib, K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, R.S. Radin Umar, Drop Weight Testing Rig Analysis and Design Part I: Mechanical Installation, in: Proc. 2nd World Engineering Congress: Manufacturing Engineering, Automation & Robotics, Kuching, Sarawak, Malaysia, 22-25 July 2002, 308-313
17. F.M. Shuaeib, K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, R.S. Radin Umar, Drop Weight Testing Rig Analysis and Design Part II: Data Retrieval, in: Proc. 2nd World Engineering Congress: Manufacturing Engineering, Automation & Robotics, Kuching, Sarawak, Malaysia, 22-25 July 2002, 270-276
18. S.C.V. Yong, **S.V. Wong**, A.M.S. Hamouda, A Review on Technology of Surface Roughness Measurements with Optical and Scanning Probe Microscopy Methods, in: Proc. 2nd World Engineering Congress: Manufacturing Engineering, Automation & Robotics, Kuching, Sarawak, Malaysia, 22-25 July 2002, 302-307
19. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, N. Ismail, M.R. Osman, A Review on the Application of Fuzzy Logic in Machining Process, in: Proc. 2nd World Engineering Congress: Manufacturing Engineering, Automation & Robotics, Kuching, Sarawak, Malaysia, 22-25 July 2002, 333-337
20. A.B. Ibitoye, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, Motorcyclist Interactions with Road Safety Barriers, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 95-100
21. R.M. Sohaimi, A.M.S. Hamouda, E. Mahdi, F.M. Shuaeib, **S.V. Wong**, Damage Response of Natural Fibre Reinforced Composite Plates Subjected to Low Impact Velocity, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 159-164
22. S.S. Ooi, **S.V. Wong**, M.M.H. Megat Ahmad, R.S. Radin Umar, Contributions of Biomechanics in Road Transportation Safety, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 165-170
23. K.S. Tan, F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, R.S. Radin Umar, Laboratory and Vehicular Testing for Tyre Performance and Safety Evaluations, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 171-176
24. F.M. Shuaeib, A.M.S. Hamouda, **S.V. Wong**, M.M.H. Megat Ahmad, R.S. Radin Umar, Experimental Investigation of Quasi-static Crushing of Natural Fibre Composite Shell Motorcycle Helmets, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 177-182
25. F.M. Shuaeib, A.M.S. Hamouda, **S.V. Wong**, M.M.H. Megat Ahmad, R.S. Radin Umar, Quasi-static Penetration Testing of Bio-composite Motorcycle Helmet Shells: Material Optimisation, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 183-189

26. F.M. Shuaeib, A.M.S. Hamouda, **S.V. Wong**, M.M.H. Megat Ahmad, R.S. Radin Umar, The Use of EPP Foam as an Alternative Liner for Motorcycle Helmet, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 269-274
27. K.K Chiong, Y.A. Khalid, B.B. Sahari, **S.V. Wong**, Wear Performance of Cast Manganese Concrete Mixer Paddles Cladded with Various Hard Facing Alloys, in: Proc. 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Kuching, Sarawak, Malaysia, 22-25 July 2002, 279-284
28. S.C.V. Yong, **S.V. Wong**, M.M.H. Megat Ahmad, Classification Level of Damage for Crashed Vehicle by Using Cost Factor Method, in: Proc. 2nd World Engineering Congress: Geotechnical Engineering and Transportation, Kuching, Sarawak, Malaysia, 22-25 July 2002, 373-379
29. S.H. Tung, **S.V. Wong**, A.M.S. Hamouda, R.S. Radin Umar, Advancements in the Road and Motor Vehicle Safety of Malaysia, in: Proc. 2nd World Engineering Congress: Geotechnical Engineering and Transportation, Kuching, Sarawak, Malaysia, 22-25 July 2002, 367-372
30. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, N. Ismail, Development of Fuzzy Models on Machining Data Selection for Turning Process of Titanium Alloys, in: Proc. International Conference on Flexible Automation & Intelligent Manufacturing, University of South Florida, Embassy Suites, USF, Tampa, Florida, June 9-11 2003, 611-624
31. M.Y.M. Jamal, **S.V. Wong** and M. Dirhamsyah, Feature-Knowledge-Based Cost Estimation System for Lathe Machining Process, in: Proc. International Conference on Flexible Automation & Intelligent Manufacturing, University of South Florida, Embassy Suites, USF, Tampa, Florida, June 9-11 2003, 356-364
32. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, N. Ismail, Strategy For Generalizing The Development Of Alloy Steel Fuzzy Model For Machinability Data Selection, in: Proc. International Conference on Advances in Materials & Processing Technologies, Dublin City University, Ireland, 8-11 July 2003, 341-344
33. H. M. A. A. Al Assadi, **S.V. Wong**, A.M.S. Hamouda, and M. M. H. Megat Ahmad, Development of Machine Learning Strategy for Acquiring on-line Machining Skills During Turning Process, in: Proc. International Conference on Advances in Materials & Processing Technologies, Dublin City University, Ireland, 8-11 July 2003, 345-350
34. C.L. Chew, N. Ismail, **S.V. Wong**, A.M.S. Hamouda, and Z. Leman, Computer Assisted Finite Capacity Scheduling for Job Shop Production, in: Proc. 3rd International Conference on Advanced Manufacturing Technology, Kuala Lumpur, 11-13 May 2004, 565-569
35. S.Z. Razali, **S.V. Wong**, and N. Ismail, Machining Data Selection for Milling of Wrought Carbon Steel with Fuzzy Logic, in: Proc. 3rd International Conference on Advanced Manufacturing Technology, Kuala Lumpur, 11-13 May 2004, 672-677
36. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda, Titanium Alloys Fuzzy Model for Machinability Data Selection of Turning Process, in: Proc. 3rd International Conference on Advanced Manufacturing Technology, Kuala Lumpur, 11-13 May 2004, 737-742
37. A.B. Ibitoye, R.S. Radin Umar, **S.V. Wong**, A.M.S. Hamouda, Crash Injury Investigation of Motorcycle Accidents against Guardrail, in: Proc. International Conference on Crashworthiness, San Francisco, USA, 14 - 16 July 2004, Session 2D: Motorcycle/ Road Safety, Paper 2:1-18
38. K S Tan, **S V Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, and R.S. Radin Umar, Parametric Study on Crash Deformation of Motorcycle Wheel-Tyre Assembly, in: Proc. International Conference on Crashworthiness, San Francisco, USA, 14 - 16 July 2004, Session 2D: Motorcycle/ Road Safety, Paper 4:1-20

39. N. Ismail, M.R. Osman, C.F. Tan, **S.V. Wong**, S. Sulaiman, Extraction of Cylindrical Features from Neutral Data Format fro CAD/CAM Integration, in: Proc. International Engineering Convention, Holiday Inn, Amman, Jordan, 24-26 August 2004, 73-78
40. K.S.Tan, M.W. Seow, **S.V. Wong**, R.S. Radin Umar, Fracture Modes of Motorcycle Hub under Frontal Impact Loading, in Proceedings: 14th ISME International Conference on Mechanical Engineering in Knowledge Age (ISBN 81-88901-21-0), Delhi, India, 12-14 December 2005, 154-160
41. **S.V. Wong**, Advances on Road and Motor Vehicle Safeties in Malaysia, **Keynote**, in Proceedings: 14th ISME International Conference on Mechanical Engineering in Knowledge Age (ISBN 81-88901-21-0), Delhi, India, 12-14 December 2005, 27-41
42. S H Tung, **S V Wong**, T H Law and R S Radin Umar, Crashes with Road Side Objects along Motorcycle Lanes in Malaysia, in: Proceedings of International Crashworthiness Conference 2006, Athens, Greece, 4th -7th July, 2006, Paper 2006-97
43. K S Tan, Tan Willy, **S V Wong**, Design of Motorcyclist-Friendly Guardrail Using Finite Element Analysis, in: Proceedings International Crashworthiness Conference 2006, Athens, Greece, 4th -7th July, 2006, Paper 2006-40
44. B.W. Chu, **S.V. Wong** and M.M.H.M. Ahmad, Machinability Data Modeling for End Milling Process Using Neural Network, in: Proceedings of Advances in Materials & Processing Technologies Conference 2006, Las Vegas, Nevada, USA, 30th July – 3rd August,2006, Paper AIII2:394
45. H.S. Kong, **S.V. Wong** and I.Napsiah, Neural-fuzzy-based Machinability Data Selection in Turning Process, in: Proceedings of Advances in Materials & Processing Technologies Conference 2006, Las Vegas, Nevada, USA, 30th July – 3rd August,2006, Paper AIII2:395
46. S. Z. Razali, **S.V. Wong** and N.Ismail, Machining Data Selection for Milling of Wrought Carbon Steel with Fuzzy Logic, in: Proceedings of Advances in Materials & Processing Technologies Conference 2006, Las Vegas, Nevada, USA, 30th July – 3rd August,2006, Paper AIII7:139

47. M.W. Tham, **S.V. Wong** and K.K.Chiong, Abrasive Wear Analysis of Hardfacing Material, in: Proceedings of Advances in Materials & Processing Technologies Conference 2006, Las Vegas, Nevada, USA, 30th July – 3rd August, 2006, Paper MTCII6:392
48. C. A. Chin, **S. V. Wong** and A. M. S. Hamouda, Design and Development of Four Nodes Element with Object-oriented Approach, in: Proceedings of Advances in Materials & Processing Technologies Conference 2006, Las Vegas, Nevada, USA, 30th July – 3rd August, 2006, Paper FI3:393
49. H.S. Kong, **S.V. Wong**, N. Ismail, Machinability Data Selection for Turning Process Using Neural-Fuzzy Approach, in: Proceedings of the 3rd International Conference on Artificial Intelligence in Engineering & Technology, Kota Kinabalu, Sabah, Malaysia, 22 – 24 Nov 2006, 165-170.
50. H. Talebi, **S.V. Wong** and A.M.S. Hamouda, Studying the role of projectile nose angle on ballistic penetration of high strength fabric using finite element method, Pin Proceedings of 9th Symposium on Plasticity and Impact Mechanics - IMPLAST 2007, Bochum, Germany, 21 – 24 August 2007, 575 – 582
51. Solehuddin Shuib, Barkawi B. Sahari, **S.V. Wong** and ZF Zairul-Nizam, Finite Element Simulation Of The Hip For The Application Of Lateral Muscle Loading, Palm Garden Hotel, IOI Resort, Putrajaya, Malaysia, Nov 2007
52. C. L. Tan, Y.T. Lim, K.S. Tan, **S.V. Wong**, Experimental Analysis on Static and Impact Response of Motorcycle Front Fork, International Crashworthiness Conference (ICRASH 2008), Kyoto Institute of Technology, Japan, 22 – 25 July 2008
53. K.S. Tan, K.D. Wing and **S.V. Wong**, SEM Fractographic Analysis Of Fractured Motorcycle wheel Hub, International Crashworthiness Conference (ICRASH 2008), Kyoto Institute of Technology, Japan, 22 – 25 July 2008
54. C. L. Tan, Y.T. Lim and **S.V. Wong**, Experimental Analysis on Lower Clamp Bolt of Motorcycle Front Fork During Frontal Impact, The XXII International Congress of Theoretical and Applied Mechanics (ICTAM2008), Adelaide Convention Centre, Australia, 24 – 29 August 2008
55. N. Ismail, I. Abd Manaf, **S.V. Wong** and A. M. S. Hamoda, Complex Parts Surface Modelling From Laser Scanning Data, Universiti Putra Malaysia
56. Z.A. Ahmad Noor Syukri, A.R. Mohammad Mahafiz, **S.V. Wong** and R.S. Radin Umar, A Preliminary Study on Characteristics and The Contributing Factors for Single Vehicle Collisions Involving Trees in Malaysia, 15th Road Safety on Four Continents, Abu Dhabi, United Arab Emirates, 28-30 March 2010
57. H. Z. Zarir, A. M. Abdul Rahmat, F. P. Noor and **S.V. Wong**, Motorcyclist Spinal Injuries in Road Crashes: Literature Review, 15th Road Safety on Four Continents, Abu Dhabi, United Arab Emirates, 28-30 March 2010
58. H. Z. Zarir, A. M. Abdul Rahmat, M. F. Siti Atiqah, F. P. Noor, **S.V. Wong** and A. M. Hassan, Crash Factors for Spinal Injuries Among Seriously Injured Motorcyclists, International Crashworthiness Conference (ICRASH 2010), Washington, DC, United States of America, 22 – 24 September 2010, Paper No: 2010-037
59. M. I. Mohd Hafzi, A. K. Khairi Anwar, R. Mohd Khairudin and **S.V. Wong**, The Accident Analysis of Two-Vehicle Side Impact Crashes in Malaysia, International Crashworthiness Conference (ICRASH 2010), Washington, DC, United States of America, 22 – 24 September 2010, Paper No: 2010-080
60. H. Azhar and **S.V. Wong**, Degradation of Helmet Protective Performance : An Overview, International Crashworthiness Conference (ICRASH 2010), Washington, DC, United States of America, 22 – 24 September 2010, Paper No: 2010-112

61. M. H. Muntalip, M. S. Solah and **S.V. Wong**, Development of Star Rating System for Rear Underrun Protection of Heavy Vehicle in Malaysia, International Crashworthiness Conference (ICRASH 2010), Washington, DC, United States of America, 22 – 24 September 2010, Paper No: 2010-113

Papers in Proceedings of National / Regional Conference & Seminars

1. Norhasikin Nasaruddin, **S.V. Wong**, Yap Bee Wah, Mohamad Alias Lazim, Fatality Prediction Model for Motorcycle Accidents in Malaysia, ICSSBE 2012, 10-12 September 2012, Awana Porto Malai Hotel, Langkawi, Kedah
2. K.S. Tan, **S.V. WONG**, R.S. Radin Umar, MMH Megat Ahmad, Computational Simulation of Fully Deformable Motorcycle Spoke Wheel, ICrash 2012, Milan Italy, 18-20 July 2012.
3. L. Fauziana, A. Noor Kamalaih, **S.V. WONG**, MF Siti Atiqah, the Benefit of Seatbelts in Reducing Injury Severity in Frontal Impact Crashes, ICrash 2012, Milan Italy, 18-20 July 2012.
4. L. Fauziana, A. Noor Kamalaih, **S.V. WONG**, MF Siti Atiqah, assesment of Crash Worthiness and Seatbelt Performance of small Cars in High Profile Crashes, ICrash 2012, Milan Italy, 18-20 July 2012.
5. L. Fauziana, A. Noor Kamalaih, **S.V. WONG**, MF Siti Atiqah, The Benefit of Seatbelts in Reducing Injury Severity in Frontal Ipact Crashes, ICrash 2012, Milan Italy, 18-20 July 2012.
6. **SV Wong**, Road Safety Research and Policy, Abstract in the Injury Prevention Safety 2012 World Conference, 1-4 October 2012, A72/02, Volume 18 Supplement 1.
7. A.M.S. Hamouda and **S.V. Wong**, An intelligent Software for Machinability Data Selection, presented: Malaysian Science and Technology Congress 1997, Genting, Malaysia, 1997
8. Tan Chee Fai, Napsiah Ismail, Mohd. Rasid Osman, **Wong Shaw Voon**, and Shamsuddin Sulaiman, The implementation of feature recognition system for CAD/CAM integration, in: Proc. SCORED 2001: Soaring Into An Infinite World of Electrical & Electronics, 20-21 February 2001, UTM Skudai, Malaysia, Paper No: 160, 2001
9. **S.V. Wong**, A.M.S. Hamouda and R.S. Radin Umar, Advancements In the Road and Motor Vehicle Safety of Malaysia, Invited speaker in: 4th SAE Malaysia Technical Seminar, 26 September 2001, Selangor, Malaysia, SAE Malaysia Chapter, 2001
10. **S.V. Wong**, Development of Fuzzy Expert System for Machinability Data Selection, in: UPM MechE Seminar 2001: Information Technology in Mechanical & Manufacturing Engineering, Engineering Complex, Universiti Putra Malaysia, Serdang, Malaysia, 46-47, 2001
11. N. Ismail, C.F. Tan, **S.V. Wong**, M.R. Osman, S. Sulaiman, Ruled-based Feature Extraction and Recognition from STEP file, in: 2002 Student Conference on Research and Development Proceedings, 16 -17 July 2002, Grand Blue Wave Hotel, Shah Alam, Selangor, Malaysia, 90-93, 2002
12. A.B. Ibitoye, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, T.H. Law, Harmful Effects of Guardrail Features to Motorcyclists, in: Proceedings on Fifth Malaysian Road Conference, 7-9 October 2002, Sunway Pyramid Convention, Malaysia, Paper 6, 2002
13. K.S. Chor, A.M.S. Hamouda, **S.V. Wong**, N. Ismail, Development of an Intelligent Fire Detecting Robot in Virtual World, Conference on Intelligent Systems & Robotics, Advanced Technology Congress 2003, 20-21 May 2003, Putrajaya Marriott Hotel, Malaysia, 98, 2003

14. F.M. Shuaeib, A.M.S. Hamouda, R.S. Radin Umar, **S.V. Wong**, M.M.H. Megat Ahmad, 3D Finite Element Modelling of the Dynamic behavior of the Expanded Polypropylene (EPP) Foam, Conference on Spatial & Computational Engineering, Advanced Technology Congress 2003, 20-21 May 2003, Putrajaya Marriott Hotel, Malaysia, 136, 2003
15. K.S Chor, A.M.S. Hamouda, **S.V. Wong**, and Napsiah Ismail, An Intelligent Mobile Robot For Fire Detection In Virtual World, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 44, 2003
16. C.F.Tan, N.Ismail, **S.V.Wong**, S.Sulaiman, M.R.Osman, Development Of A Knowledge-Based Feature Recognition System For Mechanical Parts, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 66, 2003
17. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, N. Ismail, Development Of Alloy Steel Fuzzy Model For Turning Process With General Strategies, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 73, 2003
18. **S.V. Wong**, Review on Precision Dimensional Metrology (Invited Speaker with full sponsorship), in: Proc. Seminar on Mold Design and Precision Inspection Technologies, 2 October 2004, St. John's & St. Mary's Institute of Technology, Taipei, Taiwan, 27-46, 2003
19. K.S.Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, R.S. Radin Umar. Design and Development of Heavy Duty Pendulum Impact Test Rig, *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 195-202, 2003
20. F.M Shuaeib, **S.V. Wong**, A. M. S. Hamouda, M. M.H. Megat Ahmed and R.S. Radin Umar. Design of Cost Effective and Comfortable Motorcycle helmet With Shell made form Bio-composite Material. *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 233-238, 2003
21. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda. Representation of Machinability Data of Turning Process with Fuzzy Logic. *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 333-340, 2003
22. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design and Development of Heavy Duty Pendulum Impact Test Rig, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 125, 2003
23. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar, A.A. Azhar and M.M.H. Megat Ahmad, Cervical Spine Injury in Malaysia Motorcycle Road Crash, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 151, 2003
24. F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 153, 2003

25. S.H. Tung, **S.V. Wong**, T.H. Law and R.S. Radin Umar, Lateral Offset of Hazards along Exclusive Motorcycle Lane in Malaysia, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 157, 2003
26. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda, Representation of Machinability Data of Turning Process with Fuzzy Logic, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 162, 2003
27. I.A. Biliyamin, R.S. Radin Umar, **S.V. Wong** and A.M.S. Hamouda, Safety Evaluation of W-Beam Guardrail to Motorcyclists, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 162, 2003
28. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design and Development of Heavy Duty Pendulum Impact Test Rig, in: *Show Directory: Research & Development Exposition 2003*, 9-12 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 40-41, 2003
29. F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, in: *Show Directory: Research & Development Exposition 2003*, 9-12 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 40, 2003
30. I.A. Biliyamin, R.S. Radin Umar, **S.V. Wong**, A.M.S. Hamouda, The behaviour of Motorcycleists in Runoff Accident with W-Beam Guardrails, in: Proc. 2nd National Conf. on Transportation Management: Issues and Challenges, 20-21 October 2003, Shah Alam, Malaysia, 96-106, 2003
31. Oh Yin Sheng, Tang Sai Hong, Abdel Magid Hamouda, **Wong Shaw Voon**, Design of Abrasion Test System for Rubbers, in Proc.: 2nd Technical Postgraduate Symposium 2003 (National Level), 16-17 December 2003, Crystal Crown Hotel, Petaling Jaya, Malaysia, 311-314, 2003
32. Abd. Manaf, N. Ismail, **S.V. Wong**, A.M.S. Hamouda, CAD Model Construction from Laser Scanning Data For Reverse Engineering, in Proc.: Intelligent Systems and Information Technology Symposium, , Institute of Advanced Technology, Universiti Putra Malaysia, 17 February 2004, 216-220, 2004.
33. S. H. Tung, **S. V. Wong**, R. S. Radin Umar, T. H. Law, and R. M. Abdul Ali, Environmental hazards Along Exclusive Motorcycle Lanes in Malaysia, Proceedings of Malaysia Road Conference 2004, 16-18 August 2004, Kuala Lumpur, Malaysia, Paper No. 6, 1 - 9, 2004
34. S. H. Tung, **S. V. Wong**, R. S. Radin Umar, T. H. Law, and R. M. Abdul Ali, Environmental hazards Along Exclusive Motorcycle Lanes, Selected appearance in Buletin MRC 2004, 6th Malaysia Road Conference's Daily Bulletin, Day 2, 17th August 2004, article entitled: Motorcycle Lanes: Where Hazards Lurk, 4, 2004
35. **S.V. Wong**, Motorcycle Crash Test – International and Malaysian Experiences, Invited Speaker, Road Safety Seminar by Penang State Road Safety Council, City Bayview Hotel, Penang, 18 September 2004
36. C.A. Chin, **S.V. Wong** and A.M.S. Hamouda, Design and Development of Four Nodes 2D Element with Object-Oriented Approach, in: Proceedings of CEM2005: Computational & Experimental Mechanics, bangi, Malaysia, 17-18 May 2005
37. Norwazan Abdul Rahim, Barkawi Sahari, Abdul Majid Hamouda, **Wong Shaw Voon**, The effect of reinforcement on the crashworthiness analysis of front platform of compressed natural gas vehicle, in:

Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005

38. M. Mujahid Azni, Barkawi Sahari, **S. V. Wong**, Finite element crash analysis of NGV platform, Crashworthiness assessment of platform backbone in auto body considering the design and the fabrication histories, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
39. Siti Marhainis Abu Mansor, Barkawi Sahari, **Wong Shaw Voon**, Abdul Majid Hamouda, Static stiffness and stress distribution under torsion loads of gasoline and natural gas vehicle platforms, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
40. Norfaizah Mohd Arsad, Barkawi Sahari, **Wong Shaw Voon**, Abdul Majid Hamouda, Crashworthiness assessment of platform backbone in auto-Body considering the design and the fabrication histories, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
41. M. Mujahid Azni, Barkawi Sahari, **S. V. Wong**, Finite element crash analysis of NGV platform, Altair CAE Users Conference 2005, 11-13 August 2005, Bangalore, India
42. C.A. Chin, **S.V. Wong**, A.M.S. Hamouda, Design and Development of Four Nodes 2D element with Object-Oriented Approach, Proceedings & Book of Abstracts: A Series of Sminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 43-46
43. B.W. Chu, **S.V. Wong**, M.M.H.M. Ahmad, Artificial Neural Network in End-Milling, Proceedings & Book of Abstracts: A Series of Sminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 47-48
44. K.K Chiong, **S.V. Wong**, Barkawi Sahari, and A.M.S. Hamouda, Experimental and Finite Element Wear Analysis for Hard Facing Application, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 51-53

Research & Technical Articles in Bulletin, Magazine & News Media, etc.

1. M. R. Osman, Fuad A.,Mohamad Suffian a. and S.V. Wong, Safety Practices of Bus Operators, The Ingenieur, Board of Engineers Malaysia, Vol. 48, Dec 2010-Feb 2011, 38-41
2. Iskandar A. H., Khairil Anwar A. K. and S.V. Wong, Ensuring Safe Vehicles from the Engineering Perspective, Board of Engineers Malaysia, Vol. 48, Dec 2010-Feb 2011, 42-43
3. L. Fauziana and S.V.Wong, The Crash Analysis as a Tool in Insurance Fraud Investigation – A Malaysian Perspective, Insurance, A Quarterly Publication of The Malaysian Insurance Institute, 08/2011/Q2, Apr – Jun 2011, 36-39

National Conference / Seminar / Working Group Presentations.

Note: Presented by the applicant.

1. A.M.S. Hamouda and **S.V. Wong**, An intelligent Software for Machinability Data Selection, presented: Malaysian Science and Technology Congress 1997, Genting, Malaysia, 1997
2. Tan Chee Fai, Napsiah Ismail, Mohd. Rasid Osman, **Wong Shaw Voon**, and Shamsuddin Sulaiman, The implementation of feature recognition system for CAD/CAM integration, in: Proc. SCORED 2001: Soaring Into An Infinite World of Electrical & Electronics, 20-21 February 2001, UTM Skudai, Malaysia, Paper No: 160, 2001
3. **S.V. Wong**, A.M.S. Hamouda and R.S. Radin Umar, Advancements In the Road and Motor Vehicle Safety of Malaysia, Invited speaker in: 4th SAE Malaysia Technical Seminar, 26 September 2001, Selangor, Malaysia, SAE Malaysia Chapter, 2001
4. **S.V. Wong**, Development of Fuzzy Expert System for Machinability Data Selection, in: UPM MechE Seminar 2001: Information Technology in Mechanical & Manufacturing Engineering, Engineering Complex, Universiti Putra Malaysia, Serdang, Malaysia, 46-47, 2001
5. N. Ismail, C.F. Tan, **S.V. Wong**, M.R. Osman, S. Sulaiman, Ruled-based Feature Extraction and Recognition from STEP file, in: 2002 Student Conference on Research and Development Proceedings, 16 -17 July 2002, Grand Blue Wave Hotel, Shah Alam, Selangor, Malaysia, 90-93, 2002
6. A.B. Ibitoye, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, T.H. Law, Harmful Effects of Guardrail Features to Motorcyclists, in: Proceedings on Fifth Malaysian Road Conference, 7-9 October 2002, Sunway Pyramid Convention, Malaysia, Paper 6, 2002
7. K.S. Chor, A.M.S. Hamouda, **S.V. Wong**, N. Ismail, Development of an Intelligent Fire Detecting Robot in Virtual World, Conference on Intelligent Systems & Robotics, Advanced Technology Congress 2003, 20-21 May 2003, Putrajaya Marriott Hotel, Malaysia, 98, 2003
8. F.M. Shuaeib, A.M.S. Hamouda, R.S. Radin Umar, **S.V. Wong**, M.M.H. Megat Ahmad, 3D Finite Element Modelling of the Dynamic behavior of the Expanded Polypropylene (EPP) Foam, Conference on Spatial & Computational Engineering, Advanced Technology Congress 2003, 20-21 May 2003, Putrajaya Marriott Hotel, Malaysia, 136, 2003
9. K.S. Chor, A.M.S. Hamouda, **S.V. Wong**, and Napsiah Ismail, An Intelligent Mobile Robot For Fire Detection In Virtual World, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 44, 2003
10. C.F.Tan, N.Ismail, **S.V.Wong**, S.Sulaiman, M.R.Osman, Development Of A Knowledge-Based Feature Recognition System For Mechanical Parts, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 66, 2003
11. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, N. Ismail, Development Of Alloy Steel Fuzzy Model For Turning Process With General Strategies, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 73, 2003
12. **S.V. Wong**, Review on Precision Dimensional Metrology (Invited Speaker with full sponsorship), in: Proc. Seminar on Mold Design and Precision Inspection Technologies, 2 October 2004, St. John's & St. Mary's Institute of Technology, Taipei, Taiwan, 27-46, 2003

13. K.S.Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, R.S. Radin Umar. Design and Development of Heavy Duty Pendulum Impact Test Rig, *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 195-202, 2003
14. F.M Shuaeib, **S.V. Wong**, A. M. S. Hamouda, M. M.H. Megat Ahmed and R.S. Radin Umar. Design of Cost Effective and Comfortable Motorcycle helmet With Shell made form Bio-composite Material. *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 233-238, 2003
15. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda. Representation of Machinability Data of Turning Process with Fuzzy Logic. *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 333-340, 2003
16. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design and Development of Heavy Duty Pendulum Impact Test Rig, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 125, 2003
17. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar, A.A. Azhar and M.M.H. Megat Ahmad, Cervical Spine Injury in Malaysia Motorcycle Road Crash, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 151, 2003
18. F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 153, 2003
19. S.H. Tung, **S.V. Wong**, T.H. Law and R.S. Radin Umar, Lateral Offset of Hazards along Exclusive Motorcycle Lane in Malaysia, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 157, 2003
20. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda, Representation of Machinability Data of Turning Process with Fuzzy Logic, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 162, 2003
21. I.A. Biliyamin, R.S. Radin Umar, **S.V. Wong** and A.M.S. Hamouda, Safety Evaluation of W-Beam Guardrail to Motorcyclists, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 162, 2003
22. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design and Development of Heavy Duty Pendulum Impact Test Rig, in: *Show Directory: Research & Development Exposition 2003*, 9-12 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 40-41, 2003
23. F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates,

in: *Show Directory: Research & Development Exposition 2003*, 9-12 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 40, 2003

24. I.A. Biliyamin, R.S. Radin Umar, **S.V. Wong**, A.M.S. Hamouda, The behaviour of Motorcycleists in Runoff Accident with W-Beam Guardrails, in: Proc. 2nd National Conf. on Transportation Management: Issues and Challenges, 20-21 October 2003, Shah Alam, Malaysia, 96-106, 2003
25. Oh Yin Sheng, Tang Sai Hong, Abdel Magid Hamouda, **Wong Shaw Voon**, Design of Abrasion Test System for Rubbers, in Proc.: 2nd Technical Postgraduate Symposium 2003 (National Level), 16-17 December 2003, Crystal Crown Hotel, Petaling Jaya, Malaysia, 311-314, 2003
26. I. Abd. Manaf, N. Ismail, **S.V. Wong**, A.M.S. Hamouda, CAD Model Construction from Laser Scanning Data For Reverse Engineering, in Proc.: Intelligent Systems and Information Technology Symposium, , Institute of Advanced Technology, Universiti Putra Malaysia, 17 February 2004, 216-220, 2004.
27. S. H. Tung, **S. V. Wong**, R. S. Radin Umar, T. H. Law, and R. M. Abdul Ali, Environmental hazards Along Exclusive Motorcycle Lanes in Malaysia, Proceedings of Malaysia Road Conference 2004, 16-18 August 2004, Kuala Lumpur, Malaysia, Paper No. 6, 1 - 9, 2004
28. S. H. Tung, **S. V. Wong**, R. S. Radin Umar, T. H. Law, and R. M. Abdul Ali, Environmental hazards Along Exclusive Motorcycle Lanes, Selected appearance in Buletin MRC 2004, 6th Malaysia Road Conference's Daily Bulletin, Day 2, 17th August 2004, article entitled: Motorcycle Lanes: Where Hazards Lurk, 4, 2004
29. **S.V. Wong**, Motorcycle Crash Test – International and Malaysian Experiences, Invited Speaker, Road Safety Seminar by Penang State Road Safety Council, City Bayview Hotel, Penang, 18 September 2004
30. C.A. Chin, **S.V. Wong** and A.M.S. Hamouda, Design and Development of Four Nodes 2D Element with Object-Oriented Approach, in: Proceedings of CEM2005: Computational & Experimental Mechanics, bangi, Malaysia, 17-18 May 2005
31. Norwazan Abdul Rahim, Barkawi Sahari, Abdul Majid Hamouda, **Wong Shaw Voon**, The effect of reinforcement on the crashworthiness analysis of front platform of compressed natural gas vehicle, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
32. M. Mujahid Azni, Barkawi Sahari, **S. V. Wong**, Finite element crash analysis of NGV platform, Crashworthiness assessment of platform backbone in auto body considering the design and the fabrication histories, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
33. Siti Marhainis Abu Mansor, Barkawi Sahari, **Wong Shaw Voon**, Abdul Majid Hamouda, Static stiffness and stress distribution under torsion loads of gasoline and natural gas vehicle platforms, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
34. Norfaizah Mohd Arsad, Barkawi Sahari, **Wong Shaw Voon**, Abdul Majid Hamouda, Crashworthiness assessment of platform backbone in auto-Body considering the design and the fabrication histories, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
35. M. Mujahid Azni, Barkawi Sahari, **S. V. Wong**, Finite element crash analysis of NGV platform, Altair CAE Users Conference 2005, 11-13 August 2005, Bangalore, India

36. C.A. Chin, **S.V. Wong**, A.M.S. Hamouda, Design and Development of Four Nodes 2D element with Object-Oriented Approach, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 43-46
37. B.W. Chu, **S.V. Wong**, M.M.H.M. Ahmad, Artificial Neural Network in End-Milling, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 47-48
38. K.K Chiong, **S.V. Wong**, Barkawi Sahari, and A.M.S. Hamouda, Experimental and Finite Element Wear Analysis for Hard Facing Application, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 51-53

Scientific & Technical Evaluation.

Article review of citation indexed journal

1. Research Proposal Review, Road Accident Data Development and Enhancement (RADED), Centre for Road Safety Studies (CRoSS), Institut Teknologi Brunei, Brunei Research Council (BRC), April 2013.
2. Manuscript Review, "The crash mechanics of fatal motorcycle-barrier collisions in Australasia" for Journal of Transportation Safety & Security, Manuscript ID UTSS-2012-0016 for Journal of Transportation Safety & Security.
3. # APJPH-12-Mar-181 entitled "The associations between smoking and occupational categories, and behavioral factors: the Korea National Health and Nutrition Examination Survey (KNHANES) from 2008 to 2010" for the Asia-Pacific Journal of Public Health.
4. Journal Review, Journal of Automobile Engineering (JAUTO2109), Title: A Virtual Motorcycle Driver to Simulate Real Manoeuvres from Experimental Data Author(s): Matteo Massaro, Ph.D; Roberto Lot; Vittore Cossalter. (user id: wongsv, password: wong6589)
5. (Manuscript Review, Asia-Pacific Journal of Public Health: Do Obese Individuals have more Severe Injuries and Mortality in Motor Vehicle Crashes as Compared to Individuals with Normal body Physique. ID AP JPH-11-Feb-123.R1.
6. Article Reviewer, Proceedings of 2nd World Engineering Congress: Mechanical & Aerospace Engineering, Jan 2003 – June 2003
7. Article Reviewer, 2nd Advanced Technology Congress: Conference on Computer Integrated Systems, March 2003 – May 2003
8. Article Reviewer, Journal of Technology J, UTM Press, June 2003
9. Article Reviewer, International Journal of Materials & Product Technology, Inderscience Publishers, Sept 2003
10. Article Reviewer, Journal of Technology A, UTM Press, October 2003
11. Article Reviewer, Pertanika Journal of Science and Technology, UPM Press, May 2004
12. Article Reviewer, Journal of Engineering, Universiti Kebangsaan Malaysia, Dec 2004
13. Article Reviewer, IEM Journal, Institute of Engineers, Malaysia, July 2005

14. Article Reviewer, Indian Journal of Engineering & Materials Sciences, August 2005
15. Article Reviewer, Jurnal Kejuruteraan, UKM, Dec 2005
16. Article Reviewer, Jurnal Kejuruteraan, UKM, April 2006
17. Article Reviewer, Journal of Materials Processing Technology, July & Oct 2006
18. Article Reviewer, International Journal of Crashworthiness, Oct & Nov 2006
19. Article Reviewer, Proceedings of Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, July 2007
20. Article Reviewer, Fuel Economy based on a Many-Gear Shifting Strategy, International Journal of Automobile Engineering
21. Article Reviewer, Journal of Automotive Engineering
22. Article Reviewer, Vibration Characteristics of FGM Circular Cylindrical Shells, International Journal of Mechanical Engineering Science
23. Article Reviewer, Effect of Hydrodynamic Pressures near Solid Surface in The incubation Stage of Cavitation Erosion, International Journal of Engineering Tribology
24. Article Reviewer, Effect of Hydrodynamic Pressures near Solid Surface in The incubation Stage of Cavitation Erosion, International Journal of Engineering Tribology, JET384R1, Jan 2008
25. Article Reviewer, Numerical Solution to Shape Optimization of High Velocity Impactors into Finite Targets, Part C, Journal of Mechanical Engineering Science, JMES844, February 2008
26. Article Reviewer, Dynamic Model of Air Spring and Integration into Vehicle
27. Dynamics Model, Part D, Journal of Automobile Engineering, 1st review, JAUTO798, March 2008.
28. Article Reviewer, Dynamic Model of Air Spring and Integration into Vehicle Dynamics Model, Part D, Journal of Automobile Engineering, 2nd review, JAUTO867, April 2008
29. Article Reviewer, Modelling and Optimisation of Crude Palm Oil and Palm Kernel Production, Vol.16, No. 1, Journal of Industrial Technology, 2007
30. Article Reviewer, APROSYS in-depth database of serious pedestrian and cyclist road traumas, International Journal of Crashworthiness, IJCR.293, June 2008
31. Article Reviewer, Manuscript #08-55, Individual and Regional Risk Factors of Road Traffic Injury Deaths: Nationwide Study in South Korea, Asia-Pacific Journal of Public Health, August 2008
32. Article Reviewer, Improving the mechanical and metallurgical characteristics of flame sprayed coating by continuous compaction, Journal of Engineering Tribology, JET451, August 2008
33. Article Reviewer, The effect of three dimensional crack growth on force distribution and meshing stiffness of a spur gear: ideal and misaligned contacts, Part C, Journal of Mechanical Engineering Science, JMES1217, August 2008

34. Article Reviewer, The effect of three dimensional crack growth on force distribution and meshing stiffness of a spur gear: ideal and misaligned contacts, Part C, Journal of Mechanical Engineering Science, JMES1217R1, November 2008
35. Article Reviewer, The effect of three dimensional crack growth on force distribution and meshing stiffness of a spur gear: ideal and misaligned contacts, Part C, Journal of Mechanical Engineering Science, JMES1217R2, January 2009
36. Article Reviewer, Nonlinear Simulation of Rotor-Dynamics coupled with Thrust Bearing-Dynamics under Nonlinear Suspension, Part J, Journal of Engineering Tribology, April 2009
37. Article Reviewer, Comparison of on-reserve versus off-reserve motor vehicle crashes in Saskatchewan, Canada: a case control study", Asia-Pacific Journal of Public Health, APJPH-09-May-173, May 2009
38. Article Reviewer, Minimising Rider Induced Energy Losses In Mountain Bike Suspensions – A Novel Solution Using Magnetorheological Fluids, Part C, Journal of Mechanical Engineering Science, JMES1675, May 2009
39. Article Reviewer, Method For Determining The Probing Points For Efficient Measurement of Freeform Surface, Part B, Journal of Engineering Manufacture, JEM1570, June 2009
40. Article Reviewer, In-vehicle network level fault diagnostics using fuzzy inference system, Part D, Journal of Automobile Engineering, JAUTO1109, August 2009
41. Article Reviewer, Developing Mixed-Integer Programming Model for Minimizing The Overall Make-Span Time in Mixed Model Assembly Line, Conference on Intelligent System and Robotics (CISAR 2009), Institute of Advanced Technology, Universiti Putra Malaysia, August 2009
42. Article Reviewer, Analyzing The Effect of Cutting Parameters on Surpace Roughness and Tool Wear When Machining Nickel Based Hastelloy-276, Conference on Intelligent System and Robotics (CISAR 2009), Institute of Advanced Technology, Universiti Putra Malaysia, August 2009
43. Article Reviewer, Bus Frame Structure Analysis and Lightweight Optimisation Considering Rollover Safety, Part D, Journal of Automobile Engineering, JAUTO1316, January 2010
44. Article Reviewer, Transient Risk Factors for Occupational Acute Hand Injury: A Case-Crossover Study in Korea, Asia-Pacific Journal of Public Health, APJPH-10-Jan-026, January 2010
45. Article Reviewer, Study on Crashworthiness of Wagon's Frame under Frontal Impact, International Journal of Crashworthiness, IJCR.429, March 2010
46. Article Reviewer, Cyclic indentation of nonlinear kinematic hardening materials using spherical indenters, Part C, Journal of Mechanical Engineering Science, JMES2299, May 2010
47. Article Reviewer, Modeling Development and Experimental Research on Air Spring with Auxiliary Reservoir Part D, Journal of Automobile Engineering, JAUTO1642, July 2010
48. Article Reviewer, Obesity as a risk factor for fatal traffic crashes: Systematic Review and Meta Analysis, Asia-Pacific Journal of Public Health, APJPH-11-Feb-123, April 2011
49. Article Reviewer, Comparison of Control Modes Focus on Real Heat Exchanger System, International Journal of Integrated Engineering (IJIE), June 2011

Awards & Recognitions:

MIROS Awards

1. 2009, Excellent Service Award, Malaysian Institute of Road Safety Research (MIROS)
2. 2010, Anugerah Ketua Pengarah, Malaysian Institute of Road Safety Research (MIROS)

National & International Awards.

1. 2012, Penghargaan ke atas sumbangan di dalam Pembangunan Malaysian Standard MS 2455:2012 – Motorcycle Spokes – specification. (ICS: 43.140)
2. 2012, Anugerah Standard bagi Penglibatan Dalam Pembangunan Malaysian Standards (MS) dan Aktiviti Standardisasi Antarabangsa, 22 November 2012.
3. 2011, Penghargaan ke atas Sumbangan di dalam Pembangunan Malaysia Standard (i) MS1470:2011 – Specification for PVC Floor Mats for Motor Vehicles, ICS: 83.080.20 (First Revision) (STD 525/15/1)
4. 2011, Penghargaan ke atas Sumbangan di dalam Pembangunan Malaysian Standard (i) MS ISO 3779:2011 – Road Vehicles – Vehicle Identification number (VIN) – Content and Structure (First Version) (ISO 3779:200, IDT)
5. 2011, Penghargaan ke atas Sumbangan di dalam Pembangunan Malaysian Standard (i) MS ISO 3780:2011 – road Vehicles – world Manufacturer Identifier (WMI) code (first Version) (ISO 3780:2009, IDT)
6. 1989, Penang State Computer Software Writing Competition, 7th Placing
7. 1990, Malaysia National Computer Quiz Competition, National 4th Placing
8. 1991, Malaysia National Computer Software Writing Competition, National 4th Placing
9. 1991, Malaysia National Computer Quiz Competition, National Champion
10. 1992, Penang State Innovation, Invention and Design Competition, Finalists
11. 1997 Best Student Award
12. 1997 Motorola Award
13. 1997 Best Student Project Award
14. 1993-1997 Dean Honours Award for all semesters for BEng at UPM
15. 1994 – 1997 Hitachi Scholarship Award for BEng at UPM
16. 1997 – 2000 Public Service Department Malaysia Scholarship Award, for Ph.D. in Ireland
17. 2000, Travel Grant awarded by the Ministry of Transport Malaysia, present research findings in the International Conference on Crashworthiness 2000, London, UK.

18. 2001, Travel Grant awarded by Universiti Putra Malaysia, present research findings in the International Conference of Flexible Automation and Integrated Manufacturing 2001, Dublin, Ireland.
19. 2001, Excellent Service Award by Universiti Putra Malaysia
20. 2002, Excellent Service Award by Universiti Putra Malaysia
21. 2003, Biographical profile featured in 7th Edition of Who's Who in Science and Engineering, Marquis Who's Who, USA.
22. 2003, Gold Medal in UPM Invention and Research Exhibition, Head, Design and Development of Heavy Duty Pendulum Impact Test Rig
23. 2003, Gold Medal in UPM Invention and Research Exhibition, Principal Researcher, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates
24. 2003, Silver Medal in UPM Invention and Research Exhibition, Head, Artificial Intelligent Based Expert System for Machining Process
25. 2003, Silver Medal in UPM Invention and Research Exhibition, Researcher, Identification and Evaluation of Accident Black Spots on Roads Using Road Accident View (RAV) Geographical Information Systems (GIS)
26. 2003, Silver Medal in National Invention and Innovation Competition for Classed A: Mechanics, Engines, Machinery, Tools, Industrial processes & Metallurgy, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, Principal Researcher, Science & Technology Expo 2003, Putra World Trade Center, Malaysia, 7-9 August 2003
27. 2003, Silver Medal in National Invention and Innovation Competition for Classed D: Building, Architecture, Civil Engineering Construction, Materials, Woodwork, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, Principal Researcher, Science & Technology Expo 2003, Putra World Trade Center, Malaysia, 7-9 August 2003
28. 2003, Bronze Medal in National Invention and Innovation Competition for Classed A: Mechanics, Engines, Machinery, Tools, Industrial processes & Metallurgy, Design and Development of Heavy Duty Pendulum Impact Test Rig, Head, Science & Technology Expo 2003, Putra World Trade Center, Malaysia, 7-9 August 2003
29. 2003, Bronze Medal in National Invention and Innovation Competition for Classed D: Building, Architecture, Civil Engineering Construction, Materials, Woodwork, Design and Development of Heavy Duty Pendulum Impact Test Rig, Head, Science & Technology Expo 2003, Putra World Trade Center, Malaysia, 7-9 August 2003
30. 2003, MASS Award in National IPTA Research & Development Exposition 2003, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-composite Material for Tropical Climates, Principal Researcher, Putra Word Trade Centre, Malaysia, 9-12 October 2003
31. 2003, Excellent Service Award by Universiti Putra Malaysia
32. 2004, Silver Medal in 32nd International Exhibition of Inventions, New Techniques, and Products, Heavy Duty Pendulum Impact Tester, Head, Geneva, Switzerland, 31 March to 4 April 2004
33. 2004, Bronze Medal in 32nd International Exhibition of Inventions, New Techniques, and Products, Bio-composite Helmet for Tropical Countries, Principal Researcher, Geneva, Switzerland, 31 March to 4 April 2004

34. 2004, International Scientist of the Year, nominated and awarded by International Biographical Centre, Cambridge, United Kingdom.
35. 2004, nominated as 2000 Outstanding Scientists of the 21st Century and Biographical Profile featured in 2000 Outstanding Scientists of the 21st Century, awarded by the International Biographical Centre, Cambridge, United Kingdom.
36. 2004, nominated as Great Minds of the 21st Century and profile to be featured in Great Minds of the 21st Century by American Biographical Institute, Inc., USA
37. 2004, Appreciation as Excellent Scientist of the Nation by the Minister of Higher Education Malaysia
38. 2004, The Outstanding Young Malaysian Awards 2004 on Science and Technology Development with Merit by Junior Chamber International Malaysia, endorsed by Ministry of Youth and Sports, and Ministry of Information.
39. 2004, Gold Medal in The British Invention Show, MechT Impactor, Allexandra Palace, London, 21-24 October 2004
40. 2004, Bronze Medal in International Exhibition on Ideas, Inventions & New Products, IENA 2004, MechT Impactor, Nuremberg, Germany, 28-31 October 2004
41. 2004, Award of Accomplishment 2004 by Koong Har Tong Society (Wong Si Chong Chi), Malaysia
42. 2004, Excellence Service Recognition, Universiti Putra Malaysia
43. 2005, Biographical profile featured in 8th Edition of Who's Who in Science and Engineering 2005-2006 (8th Edition), Marquis Who's Who, USA
44. 2005, Silver Medal in UPM Invention, Research and Innovation Exhibition, Smart Machining System in Turning Process with Artificial Intelligence, Head, Universiti Putra Malaysia, 1-19 March 2005
45. 2005, Silver Medal in UPM Invention, Research and Innovation Exhibition, Smart Machining System in Milling Process with Artificial Intelligence, Head, Universiti Putra Malaysia, 1-19 March 2005
46. 2005, Gold Medal in UPM Invention, Research and Innovation Exhibition, A New and Novel Hybrid Armor for Ballistic Resistance Panels Application, Principal Researcher, Universiti Putra Malaysia, 1-19 March 2005
47. 2005, Bronze Medal in UPM Invention, Research and Innovation Exhibition, Development of Intelligent Process Planning System for Prismatic Parts, Principal Researcher, Universiti Putra Malaysia, 1-19 March 2005
48. 2005, Bronze Medal in UPM Invention, Research and Innovation Exhibition, Design and Commissioning of Ballistic Impact Testing Facility, Principal Researcher, Universiti Putra Malaysia, 1-19 March 2005
49. 2005, Bronze Medal in 16th International Invention Innovation Industrial Design & Technology Exhibition 2005 (ITEX2005), Artificial Intelligence-based Machining System, Head, Kuala Lumpur, Malaysia, 19-21 May 2005
50. 2005, Appreciation as Excellent Scientist of the Nation by the Minister of Higher Education Malaysia
51. 2005 Silver Medal in Expo Research & Development for Public Institution of Higher Education (IPTA), Composite Anti Ballistic Impact (COMBAT) Armor Shield for Military and Law Enforcement Applications, Principal Researcher, 30 September - 2 October 05.

52. 2005 Silver Medal in Expo Research & Development for Public Institution of Higher Education (IPTA), Design and Commissioning of UPM Ballistic Automated Network Gun Systems (BANG SYSTEMS) for Ballistic Studies, Principal Researcher, 30 September - 2 October 05.
53. 2005, Excellence in Research Award, Faculty of Engineering, Universiti Putra Malaysia.
54. 2005, Excellence Service Recognition, Universiti Putra Malaysia
55. 2006, Special Acknowledgement by DCP Dato' Yahaya bin Udin, Selangor Chief Police on providing expert evidence to PDRM and accepted by the Malaysian High Court on a traffic accident on 5/8/05, handed to recipient on the 199th Malaysian Royal Police Day, 25 March 2006 at IPK Selangor.
56. 2006 Bronze Medal in 34th International Exhibition of Inventions, Composite Anti Ballistic Impact (COMBAT) Armor Shield for Military and Law Enforcement Applications, Principal Researcher, Geneva, Switzerland, 5 March to 9 April 2006.
57. 2006 Bronze Medal in 34th International Exhibition of Inventions, Design and Commissioning of UPM Ballistic Automated Network Gun Systems (BANG SYSTEMS) for Ballistic Studies, Principal Researcher, Geneva, Switzerland, 5 March to 9 April 2006.
58. 2006 Gold Medal in 2006 British Invention Show, Anti-Ballistic Armor Shield for Military and Law Enforcement Applications, Principal Researcher, London, 18 to 21 October 2006. (Special Acknowledgement from the Minister of the MOHE)
59. 2006, Excellent Researcher Award 2006, Universiti Putra Malaysia
60. 2006, Excellent Service Award by Universiti Putra Malaysia
61. 2007, Malaysian Representative with Full Sponsorship by Japanese Government, Asian Collaborative Meeting on ISO Technical Committee on Road Vehicle, Kyoto Tokyu Hotel, Kyoto, Japan, 21-24 May 2007
62. 2007, Head of Delegation for Malaysia, Plenary Meeting on ISO Technical Committee on Road Vehicle, Berlin, Germany, 4-6 June 2007
63. 2007, Excellent Service Award by Universiti Putra Malaysia
64. 2007, Excellent Researcher Award 2007, Universiti Putra Malaysia
65. 2007, Excellent Teaching Award by Universiti Putra Malaysia
66. 2008, Head of Delegation for Malaysia, Plenary Meeting on ISO Technical Committee on Impact Test Procedures (ISO/TC 22/SC10) and Passive Safety Crash Protection Systems (ISO/TC 22/SC12), Texas, United States of America, 27 – 31 October 2008
67. 2008, Excellent Researcher Award 2008, Universiti Putra Malaysia

Professional Training Attended

Papers in Proceedings of National / Regional Conference & Seminars

1. Norhasikin Nasaruddin, **S.V. Wong**, Yap Bee Wah, Mohamad Alias Lazim, Fatality Prediction Model for Motorcycle Accidents in Malaysia, ICSSBE 2012, 10-12 September 2012, Awana Porto Malai Hotel, Langkawi, Kedah
2. K.S. Tan, **S.V. WONG**, R.S. Radin Umar, MMH Megat Ahmad, Computational Simulation of Fully Deformable Motorcycle Spoke Wheel, ICrash 2012, Milan Italy, 18-20 July 2012.
3. L. Fauziana, A. Noor Kamalaih, **S.V. WONG**, MF Siti Atiqah, the Benefit of Seatbelts in Reducing Injury Severity in Frontal Impact Crashes, ICrash 2012, Milan Italy, 18-20 July 2012.
4. L. Fauziana, A. Noor Kamalaih, **S.V. WONG**, MF Siti Atiqah, assesment of Crash Worthiness and Seatbelt Performance of small Cars in High Profile Crashes, ICrash 2012, Milan Italy, 18-20 July 2012.
5. L. Fauziana, A. Noor Kamalaih, **S.V. WONG**, MF Siti Atiqah, The Benefit of Seatbelts in Reducing Injury Severity in Frontal Ipect Crashes, ICrash 2012, Milan Italy, 18-20 July 2012.
6. **SV Wong**, Road Safety Research and Policy, Abstract in the Injury Prevention Safety 2012 World Conference, 1-4 October 2012, A72/02, Volume 18 Supplement 1.
7. A.M.S. Hamouda and **S.V. Wong**, An intelligent Software for Machinability Data Selection, presented: Malaysian Science and Technology Congress 1997, Genting, Malaysia, 1997
8. Tan Chee Fai, Napsiah Ismail, Mohd. Rasid Osman, **Wong Shaw Voon**, and Shamsuddin Sulaiman, The implementation of feature recognition system for CAD/CAM integration, in: Proc. SCORED 2001: Soaring Into An Infinite World of Electrical & Electronics, 20-21 February 2001, UTM Skudai, Malaysia, Paper No: 160, 2001
9. **S.V. Wong**, A.M.S. Hamouda and R.S. Radin Umar, Advancements In the Road and Motor Vehicle Safety of Malaysia, Invited speaker in: 4th SAE Malaysia Technical Seminar, 26 September 2001, Selangor, Malaysia, SAE Malaysia Chapter, 2001
10. **S.V. Wong**, Development of Fuzzy Expert System for Machinability Data Selection, in: UPM MechE Seminar 2001: Information Technology in Mechanical & Manufacturing Engineering, Engineering Complex, Universiti Putra Malaysia, Serdang, Malaysia, 46-47, 2001
11. N. Ismail, C.F. Tan, **S.V. Wong**, M.R. Osman, S. Sulaiman, Ruled-based Feature Extraction and Recognition from STEP file, in: 2002 Student Conference on Research and Development Proceedings, 16 -17 July 2002, Grand Blue Wave Hotel, Shah Alam, Selangor, Malaysia, 90-93, 2002
12. A.B. Ibitoye, **S.V. Wong**, R.S. Radin Umar, A.M.S. Hamouda, T.H. Law, Harmful Effects of Guardrail Features to Motorcyclists, in: Proceedings on Fifth Malaysian Road Conference, 7-9 October 2002, Sunway Pyramid Convention, Malaysia, Paper 6, 2002
13. K.S. Chor, A.M.S. Hamouda, **S.V. Wong**, N. Ismail, Development of an Intelligent Fire Detecting Robot in Virtual World, Conference on Intelligent Systems & Robotics, Advanced Technology Congress 2003, 20-21 May 2003, Putrajaya Marriott Hotel, Malaysia, 98, 2003
14. F.M. Shuaeib, A.M.S. Hamouda, R.S. Radin Umar, **S.V. Wong**, M.M.H. Megat Ahmad, 3D Finite Element Modelling of the Dynamic behavior of the Expanded Polypropylene (EPP) Foam, Conference on

Spatial & Computational Engineering, Advanced Technology Congress 2003, 20-21 May 2003, Putrajaya Marriott Hotel, Malaysia, 136, 2003

15. K.S Chor, A.M.S. Hamouda, **S.V. Wong**, and Napsiah Ismail, An Intelligent Mobile Robot For Fire Detection In Virtual World, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 44, 2003
16. C.F.Tan, N.Ismail, **S.V.Wong**, S.Sulaiman, M.R.Osman, Development Of A Knowledge-Based Feature Recognition System For Mechanical Parts, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 66, 2003
17. J.Y. Tan, **S.V. Wong**, A.M.S. Hamouda, N. Ismail, Development Of Alloy Steel Fuzzy Model For Turning Process With General Strategies, in: Proc. Seminar on Artificial Intelligence Applications in Industry, 24th - 25th June 2003, Park Plaza Hotel, Paper 73, 2003
18. **S.V. Wong**, Review on Precision Dimensional Metrology (Invited Speaker with full sponsorship), in: Proc. Seminar on Mold Design and Precision Inspection Technologies, 2 October 2004, St. John's & St. Mary's Institute of Technology, Taipei, Taiwan, 27-46, 2003
19. K.S.Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad, R.S. Radin Umar. Design and Development of Heavy Duty Pendulum Impact Test Rig, *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 195-202, 2003
20. F.M Shuaeib, **S.V. Wong**, A. M. S. Hamouda, M. M.H. Megat Ahmed and R.S. Radin Umar. Design of Cost Effective and Comfortable Motorcycle helmet With Shell made form Bio-composite Material. *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 233-238, 2003
21. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda. Representation of Machinability Data of Turning Process with Fuzzy Logic. *In Investing in Innovation 2003, Vol. 5: Science and Engineering* (Proceedings of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003), 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 333-340, 2003
22. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design and Development of Heavy Duty Pendulum Impact Test Rig, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 125, 2003
23. S.S. Ooi, **S.V. Wong**, R.S. Radin Umar, A.A. Azhar and M.M.H. Megat Ahmad, Cervical Spine Injury in Malaysia Motorcycle Road Crash, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 151, 2003
24. F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 153, 2003
25. S.H. Tung, **S.V. Wong**, T.H. Law and R.S. Radin Umar, Lateral Offset of Hazards along Exclusive Motorcycle Lane in Malaysia, in: *Programme and Abstracts of Conference in Conjunction with The*

Malaysian Public Institutions of Higher Learning R&D Exposition 2003, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 157, 2003

26. J.Y. Tan, **S.V. Wong**, N. Ismail and A.M.S. Hamouda, Representation of Machinability Data of Turning Process with Fuzzy Logic, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 162, 2003
27. I.A. Biliyamin, R.S. Radin Umar, **S.V. Wong** and A.M.S. Hamouda, Safety Evaluation of W-Beam Guardrail to Motorcyclists, in: *Programme and Abstracts of Conference in Conjunction with The Malaysian Public Institutions of Higher Learning R&D Exposition 2003*, 9-10 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 162, 2003
28. K.S. Tan, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design and Development of Heavy Duty Pendulum Impact Test Rig, in: *Show Directory: Research & Development Exposition 2003*, 9-12 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 40-41, 2003
29. F.M. Shuaeib, **S.V. Wong**, A.M.S. Hamouda, M.M.H. Megat Ahmad and R.S. Radin Umar, Design of Cost Effective and Comfortable Motorcycle Helmet with Bio-Composite Material for Tropical Climates, in: *Show Directory: Research & Development Exposition 2003*, 9-12 October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia, 40, 2003
30. I.A. Biliyamin, R.S. Radin Umar, **S.V. Wong**, A.M.S. Hamouda, The behaviour of Motorcycleists in Runoff Accident with W-Beam Guardrails, in: Proc. 2nd National Conf. on Transportation Management: Issues and Challenges, 20-21 October 2003, Shah Alam, Malaysia, 96-106, 2003
31. Oh Yin Sheng, Tang Sai Hong, Abdel Magid Hamouda, **Wong Shaw Voon**, Design of Abrasion Test System for Rubbers, in Proc.: 2nd Technical Postgraduate Symposium 2003 (National Level), 16-17 December 2003, Crystal Crown Hotel, Petaling Jaya, Malaysia, 311-314, 2003
32. Abd. Manaf, N. Ismail, **S.V. Wong**, A.M.S. Hamouda, CAD Model Construction from Laser Scanning Data For Reverse Engineering, in Proc.: Intelligent Systems and Information Technology Symposium, , Institute of Advanced Technology, Universiti Putra Malaysia, 17 February 2004, 216-220, 2004.
33. S. H. Tung, **S. V. Wong**, R. S. Radin Umar, T. H. Law, and R. M. Abdul Ali, Environmental hazards Along Exclusive Motorcycle Lanes in Malaysia, Proceedings of Malaysia Road Conference 2004, 16-18 August 2004, Kuala Lumpur, Malaysia, Paper No. 6, 1 - 9, 2004
34. S. H. Tung, **S. V. Wong**, R. S. Radin Umar, T. H. Law, and R. M. Abdul Ali, Environmental hazards Along Exclusive Motorcycle Lanes, Selected appearance in Buletin MRC 2004, 6th Malaysia Road Conference's Daily Bulletin, Day 2, 17th August 2004, article entitled: Motorcycle Lanes: Where Hazards Lurk, 4, 2004
35. **S.V. Wong**, Motorcycle Crash Test – International and Malaysian Experiences, Invited Speaker, Road Safety Seminar by Penang State Road Safety Council, City Bayview Hotel, Penang, 18 September 2004
36. C.A. Chin, **S.V. Wong** and A.M.S. Hamouda, Design and Development of Four Nodes 2D Element with Object-Oriented Approach, in: Proceedings of CEM2005: Computational & Experimental Mechanics, bangi, Malaysia, 17-18 May 2005
37. Norwazan Abdul Rahim, Barkawi Sahari, Abdul Majid Hamouda, **Wong Shaw Voon**, The effect of reinforcement on the crashworthiness analysis of front platform of compressed natural gas vehicle, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005

38. M. Mujahid Azni, Barkawi Sahari, **S. V. Wong**, Finite element crash analysis of NGV platform, Crashworthiness assessment of platform backbone in auto body considering the design and the fabrication histories, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
39. Siti Marhainis Abu Mansor, Barkawi Sahari, **Wong Shaw Voon**, Abdul Majid Hamouda, Static stiffness and stress distribution under torsion loads of gasoline and natural gas vehicle platforms, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
40. Norfaizah Mohd Arsad, Barkawi Sahari, **Wong Shaw Voon**, Abdul Majid Hamouda, Crashworthiness assessment of platform backbone in auto-Body considering the design and the fabrication histories, in: Proc. Conference on Automotive Technology, Advanced Technology Congress 2005, Putrajaya, Malaysia, 6-8 December 2005
41. M. Mujahid Azni, Barkawi Sahari, **S. V. Wong**, Finite element crash analysis of NGV platform, Altair CAE Users Conference 2005, 11-13 August 2005, Bangalore, India
42. C.A. Chin, **S.V. Wong**, A.M.S. Hamouda, Design and Development of Four Nodes 2D element with Object-Oriented Approach, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 43-46
43. B.W. Chu, **S.V. Wong**, M.M.H.M. Ahmad, Artificial Neural Network in End-Milling, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 47-48
44. K.K Chiong, **S.V. Wong**, Barkawi Sahari, and A.M.S. Hamouda, Experimental and Finite Element Wear Analysis for Hard Facing Application, Proceedings & Book of Abstracts: A Series of Seminars on Frontier Science and Advanced Technology 2005, ITMA UPM, 51-53

Courses, Seminars, Workshops & Exhibitions Organized

1. National Technical Chairman, ISO PC241 Plenary Meeting, Shah Alam, Malaysia, Feb 2009
2. Member of organizing committee, World Engineering Congress, The Gurney Resort Hotel & Residences and Evergreen Laurel Hotel, Pulau Pinang, Malaysia, 5 – 9 August 2007
3. Member of organizing committee, International Conference on Composite Materials and Nano-Structures, Concorde Hotel, Shah Alam, Selangor, Malaysia, 24 April – 29 April 2005
4. Coordinator and Speaker, Research Workshop for RM9 Research Application, IOI Palm Garden, Putrajaya, 7-8 Feb 2006
5. Organizing Chairman, Workshop on New Appointment Research Scheme Application, Department of Mechanical & Manufacturing Engineering, Universiti Putra Malaysia, 24 Feb 2006
6. Organizer & Facilitator, Workshop on New Appointment Research Scheme Application, Department of Mechanical & Manufacturing Engineering, 21 July 2005
7. Committee & Facilitator, Department Workshop 3 on Outcome-based Education, Cyberview Lodge & SPA, Cyberjaya, 4-6 July 2005

8. Committee & Facilitator, Department Workshop 2 on Outcome-based Education, 5 June 2005
9. Committee & Facilitator, Department Workshop 1 on Outcome-based Education, 28 May 2005
10. Member of Organizing Committee and Course Instructor, Short Course in Vehicle Crash Investigation, Academy of Royal Malaysia Police, Cheras, Kuala Lumpur, Malaysia, 4-6 April 2005
11. Co-Chairperson of Organizing Committee & Chairperson of a conference session, 3rd Advanced Technology Congress: Conference on Computer Integrated Systems, Putrajaya Marriott Hotel, IOI Resort, 6-8 Dec 2005
12. Organizing Chairman, Computational Engineering Seminar, Universiti Putra Malaysia, 24 March 2004
13. Organizing Committee Member, Workshop on Curriculum Review of Bachelor Programme, Renaissance Palm Garden Hotel, Selangor, Malaysia, 31 June – 1 July 2004
14. Co-Chairperson of Organizing Committee & Chairperson of a conference session, 2nd Advanced Technology Congress: Conference on Computer Integrated Systems, Putrajaya Marriott Hotel, IOI Resort, 13-14 May 2003
15. Member of Organizing Committee & Course instructor, Road Crash Investigation Course, Putrajaya Shangri La Hotel, Malaysia, 17 – 19 February 2003
16. Organizing Chairman & Chairperson of the seminar, Seminar on Artificial Intelligence in Machining, Universiti Putra Malaysia, 11 April 2003
17. Secretary of Technical Committee, Member of Publicity Committee, Chairperson of a conference session, World Engineering Conference 2002, Crowne Plaza Riverside, Kuching, Malaysia, 22-25 July 2002
18. Member of Organizing Committee & Course Instructor, Short Course in Applied Engineering Statistics, Universiti Putra Malaysia, 21-25 Oct 2002
19. Chairman of Organizing Committee, Litigation on Vehicle Crash, Equatorial Bangi Hotel, Selangor, Malaysia, 27 February 2001
20. Chairman of Organizing Committee & Chairperson of the Workshop, Research Direction on Crashworthiness & Injury Prevention Workshop, Mint Hotel, Selangor, Malaysia, 14 May 2001
21. Chairman of Organizing Committee, Workshop on KMP Research Review and Direction, Renaissance Palm Garden Hotel, Putrajaya, Malaysia, 17-18 May 2001
22. Publicity Chairman, MechE Seminar 2001: Information Technology in Mechanical & Manufacturing Engineering, Universiti Putra Malaysia, 4 Oct 2001
23. Programme Chairman, International Advanced Technology Forum 2000, Concorde Shah Alam Hotel, Selangor, Malaysia, 7-8 November 2000
24. Chairman of Organizing Committee and Course Instructor, Short Course on Vehicle Crash Investigation, Equatorial Bangi Hotel, Selangor, Malaysia, 2-4 November 2000