

RESUME

Associate Professor Dr. Jedol Dayou

h-index: 5; g-index: 6 (as of Feb 2009).

Member of Institut Fizik Malaysia

Member of International Institute of Acoustics and Vibration

(Last update: 20th. February 2009)

Additional information can be found at <http://www.kimaragang.org/jed/>



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PERSONAL DETAILS

Name: Jedol DAYOU.

Place of Birth: Tandek, Kota Marudu, Sabah, Malaysia.

Date of Birth: December 1, 1969.

Sex: Male.

Nationality: Malaysian.

Marital Status: Married

Current Affiliation:

Head,
Energy, Vibration and Sound Research Group (e-VIBS),
School of Science and Technology,
Universiti Malaysia Sabah,
Locked Bag 2073,
88999 Kota Kinabalu,
Sabah, MALAYSIA.

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Website: <http://kimaragang.org/jed/>.

Current position:

Associate Professor.

EDUCATIONAL BACKGROUND

PhD in Noise and Vibration, Institute of Sound and Vibration Research (ISVR), University of Southampton, United Kingdom, 2000.

MSc in Nuclear Science, National University of Malaysia, 1996.

BSc in Physics, National University of Malaysia, 1992.

CAREER BACKGROUND

May 2007 - December 2007: Visiting Professor, Gwangju Institute of Science and Technology, South Korea (*sponsored by Brain Korea 21 (BK21)*).

Activities: Teaching 5063-Advanced Vibration and working on two collaboration research with Prof. Dr. Semyung Wang.

Dec 2006 - present: Associate Professor, Universiti Malaysia Sabah.

June 2003 - December 2003: Post-Doctoral Research Professor, Gwangju Institute of Science and Technology, GIST, South Korea (*the program was sponsored by Brain Korea 21 (BK21)*).

Activities: Working on two collaboration research with Prof. Dr. Semyung Wang.

2002 - present: Head of Energy, Vibration and Sound Research Group (e-VIBS).

May 2000 - Nov 2006: Lecturer, Universiti Malaysia Sabah.

October 1996 - December 1999: PhD Researcher, Institute of Sound and Vibration, University of Southampton.

November 1995 - September 1996: Tutor, Universiti Malaysia Sabah.

October 1995: Research Officer, Malaysian Nuclear Agency (formally known as Malaysian Institute for Nuclear Technology Research, MINT).

July 1993- September 1995: Contract Research Officer, Malaysian Nuclear Agency.

July 1992 – Jun 1993: Temporary Research Officer, Malaysian Nuclear Agency.

TEACHING EXPERIENCES

Advanced Vibration (**given to MSc and PhD students at Gwangju Institute of Science and Technology (GIST), South Korea during Fall Semester 2007**).

Wave and Optics (since 2008).

Noise and Vibration (since 2002).

Electroacoustics (since 2002).

Mathematical Method in Physics (2001).

Optics and Modern Physics (2001 - 2007).

Foundation of Physics (2001/2002).

Electromagnetisms (2001/2002).

SHORT COURSES DELIVERED

Noise Pollution Assessment. ENVIRO COURSE 2004. 17-20 May 2004, Universiti Malaysia Sabah.

Bunyi dan kebisingan (Sound and Noise). Sabah's Science Student Carnival. 14-15 October 2002, Universiti Malaysia Sabah, Kota Kinabalu, Sabah.

Safety Handling in Radioactive and Radiation Laboratory. 23-24 Julai 2002, Safety Course in Laboratory, Universiti Malaysia Sabah, Kota Kinabalu, Sabah.

Safety Handling in Radioactive and Radiation Laboratory (2001).

Industrial Radiography, Malaysian Nuclear Agency (1993, 1995).

MANAGEMENT/ADMINISTRATIVE EXPERIENCES

February 2006 - present: Member, Research and Conference Committee, School of Science and Technology, Universiti Malaysia Sabah.

February 2004 - September 2005: Head, Physics With Electronics Program, Universiti Malaysia Sabah.

February 2004 - September 2005: Senate Member, School of Science and Technology, Universiti Malaysia Sabah.

February 2004 - September 2005: Member of Academic Committee, School of Science and Technology, Universiti Malaysia Sabah.

October 2002 - present: Head, Energy, Vibration and Sound Research Group (VIBS), School of Science and Technology, Universiti Malaysia Sabah.

2001 - 2006: Radiation Protection Officer, Universiti Malaysia Sabah.

February 2001 - June 2002: Industrial Training Coordinator, Physics With Electronics Program, School of Science and Technology, Universiti Malaysia Sabah.

SUPERVISING EXPERIENCES

Has supervised more than 100 undergraduate honors project in acoustics, vibration and electronics.

Has supervised 2 MSc students:

1. **Ronald Yusri Batahong**, 2001 - 2005, Acoustics studies of klintangan (*sole supervisions*).
2. **Ong Chen Wei**, 2002 – 2006, Study on sound production mechanisms of sompoton (*sole supervisions*).

Currently supervising one MSc student and two PhD students:

1. **Ng Chee Han** (MSc), 2008 - , Bioacoustics signal processing (*co-supervised by Assoc. Prof. Dr. Sithi Vinayakam [Universiti Malaya], Assoc. Prof. Dr. Ho Chong Mun & Assoc. Prof. Dr. Abdul Hamid Ahmad*)
2. **Ronald Yusri Batahong** (PhD), 2007 - , Vibroacoustics studies of sundatang (*sole supervisions*).
3. **Chow Man Sang** (PhD), 2007 - , Piezoelectric material as an electrical power generator (*co-supervised by Prof. Datuk Dr. Mohd. Noh Dlimin [Universiti Tun Hussien Onn Malaysia]*).

CONSULTANCIES

Panel of Judges, Public Speaking Test, Penilaian Tahap Kecekapan 3 (Evaluation on Efficiency Level 3) for Graduate Education Officer DG44. *Ministry of Education of Malaysia*, 20th February 2008.

Associate consultant to Iklim Consult Sdn. Bhd on "Modeling of Noise Propagation at KKIP Wood Based Factory". October 2000.

Associate consultant, Environmental Impact Assessment of Pulau Layang-Layang on Noise and Seismic. October 2001. Client: *Ministry of Agriculture and Fisheries*, Malaysia.

PROFESSIONAL SOCIETY/SERVICES

Chairperson, Parallel Session 2A, 7th. Annual Seminar on Science and Technology. October 29 - 30, 2008, Grand Dorsett, Labuan, Malaysia.

Reviewer for Borneo Science Journal, ELEKTRIKA, Pertanika Journal of Science and Technology.

Associate Editor, Malaysian Institute of Physics Newsletter (since 2001).

Panel of Judges, UMS Competition on Invention and Innovation 2007, Universiti Malaysia Sabah, April 2007.

Member, Malaysian Institute of Physics (since November 2002).

Member, International Institute of Acoustics and Vibration (since September 2002).

Member, Acoustical Society of Japan (March 2001 – Feb. 2002).

PUBLIC SERVICES AND INVOLVEMENTS

1. **President**, Alumni Kimaragang Tandek Society.
2. **Invited speaker**, Seminar on Kimaragang Human Capitol Development. 15 - 17 August, 2008. Torong Soko Resort, Pitas, Sabah, Malaysia. Title: *Peningkatan Tahap Kepimpinan Kimaragang di Malaysia* (co-organized by Alumni Kimaragang Tandek and Institut Penilaian Sastera, INPES).
3. **Co-chairman**, Seminar on Kimaragang Human Capitol Development. 15 - 17 August, 2008. Torong Soko Resort, Pitas, Sabah, Malaysia (co-organized by Alumni Kimaragang Tandek and Institut Penilaian Sastera, INPES)
4. **Webadministrator**, School of Science and Technology (2008 -).
5. **Webmaster**, School of Science and Technology (2002 - 2008).
6. **Chairperson**, Kimaragang's Excellence Students Award for the Malaysian Education Certificate and Malaysian High Education School Certificate 2007 (organized by Alumni Kimaragang Tandek).
7. **Invited speaker**, Seminar Youth Community Y2Y P.168 Kota Marudu organised by Ministry in the Prime Minister Department, Malaysia. Title: *The role of young generations in the nation development*. 14hb. November 2006; SMK Kota Marudu II, Kota Marudu.
8. **Counting Officer**, UMS Students Representative Body Election 2006/2007. September 21 2006
9. **Representative** of UMS Vice Chancellor to the opening of Workshop on Academic Excellence for Form 5 students, SMK Tandek, Kota Marudu, Sabah, Malaysia. 21 Sept 2006.
10. **Facilitator**, Workshop on Academic Excellence for the students from School of Science and Technology, May 2006.
11. **Advisor**, First UMS Deligation Visit to Gwangju Institute of Science and Technology, September 2004 (**the first visits has lead to the signing of MOU between GIST and UMS in February 2005**).
12. **Champion** in pool match, 5th UMS Staff Sports competetion 2004.
13. **Champion** in pool match, 3rd UMS Staff Sports competetion 2002.

COMMITTEE EXPERIENCES

1. **Chairman**, UMS Committee on UMS-GIST International Symposium 2008 (was held at Gwangju Institute of Science and Technology, South Korea).
2. **Co-chairman**, Central Committee on UMS-GIST International Symposium 2008.
3. **Committee member**, UMS Students Industrial Training Program 2008 at Gwangju Institute of Science and Technology, South Korea.
4. **Chairman**, UMS-GIST Joint Workshop on Information and Mechatronics 2007. 11 – 13 February 2007, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by School of Science and Technology, and School of Engineering and Information Technology (Universiti Malaysia Sabah) and School of Information and Communication, Gwangju Institute of Science and Technology, South Korea*).
5. **Editorial Committee**, 2nd Southeast Asian Natural Resources and Environmental Management Conference (SANREM). 21 - 23 November 2006, Le Meridian Hotel, Kota Kinabalu (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Sabah's State Science and Technology Unit*).
6. **Secretariat Committee**, UMS-GIST International Symposium on Science and Technology 2006. 6 - 7 February 2006, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by Universiti Malaysia Sabah and Gwangju Institute of Science and Technology, South Korea*).
7. **Scientific Paper Committee**, UMS-GIST Colloquium on Science and Technology. 2 - 3 February 2005, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia. (*Jointly organized by School of Science and Tecgnology, and Biotechnology Research Institute (Universiti Malaysia Sabah) and Gwangju Institute of Science and Technology, South Korea*).
8. **Chairman**, 3rd Seminar on Science and Technology. 10-11 August 2004, Hyatt Regency Kinabalu, Kota Kinabalu, Sabah, Malaysia (*Organized by the School of Science and Technology, Universiti Malaysia Sabah*).
9. **Paper and Proceedings Committee**, 11th. National Symposium on Mathematics. 22 - 24 December 2003, Promenade Hotel, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by Universiti Malaysia Sabah, Sabah's State Science and Technology Unit and Malaysian Association for Mathematics*).
10. **Deputy Chairman**, 2nd Seminar on Science and Technology. 6 - 7 November 2003, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Organized by the School of Science and Technology, Universiti Malaysia Sabah*).
11. **Radiation Safety Committee**, Seminar and Worksop on Introduction to the X-Ray Diffraction (XRD) and X-Ray Fluorescence (XRF) Analysis. 25 – 27 May 2003, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Malaysian Nuclear Society*).
12. **Technical Committee**, Southeast Asian Natural Resources and Environmental Management Conference (SANREM). 17-18 October 2002, Sutera Harbour Resort, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Sabah's State Science and Technology Unit*).
13. **Deputy Chairman**, 1st Seminar on Science and Technology. 6 – 7 August, 2002, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Organized by the School of Science and Technology, Universiti Malaysia Sabah*).
14. **Chairman**, National Physics Seminar 2000. 7 - 8 November 2000, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Sabah's State Science and Technology Unit*).
15. **Chairman**, Sabah State Workshop on Physics 2000. 7 - 8 November 2000, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Sabah's State Science and Technology Unit*).

INTERNAL/EXTERNAL APPOINTMENTS

MSc internal examiner, Mr. Mohammad Syahmi Nordin (2008).

Thesis title: Determination of Sea Surface Temperature Using NOAA AVHRR Satellite Data.

Institution: Universiti Malaysia Sabah.

Status: Pass.

MSc internal examiner, Ms. Fadhliia Zafarina Zakaria (2008).

Thesis title: Physical Characterization of *Porites* Specis from Sabah Using X-Ray Diffraction Method, FTIR and Raman Spectroscopy and Scanning Electron Microscopy.

Institution: Universiti Malaysia Sabah.

Status: Pass.

Reviewer Panel for the “**Dokumen Program Ijazah Sarjana Muda Sains Gunaan (Fizik Elektronik dan Instrumentasi)**” (2006).

Institution: Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM)

MSc external examiner, Mr. Munirul Ula (2006).

Thesis title: Normal Incidence Sound Absorption Coefficient of Wood Circular Perforated Panel Using Boundary Element Method.

Institution: Universiti Teknologi Malaysia.

Status: Pass.

MSc internal examiner, Ms. Lee Wah Sze (2006).

Thesis title: Reef Habitat Discrimination Using Hydroacoustic Method.

Institution: Universiti Malaysia Sabah.

Status: Pass.

MSc internal examiner, Ms. Zulistiana Zulkifli (2002).

Thesis title: Sintesis dan kajian Mikrostruktur Seramik Superkonduktor Suhu Tinggi Berasaskan Bismut (Bi-2223).

Institution: Universiti Malaysia Sabah.

Status: Pass.

INTERNATIONAL APPOINTMENTS, INVOLVEMENTS AND COLLABORATIONS

Visiting Professor, Gwangju Institute of Science and Technology, South Korea (*sponsored by Brain Korea 21 (BK21)*) (May - December 2007).

Post-Doctoral Research Fellow, Gwangju Institute of Science and Technology, GIST, South Korea (*sponsored by Brain Korea 21 (BK21)*) (June - December 2003).

Reviewer for the Journal of Sound and Vibration

Reviewer for the Journal of Smart Materials and Structure.

Committee member, UMS Students Industrial Training Program 2008 at Gwangju Institute of Science and Technology, South Korea.

Chairman, UMS Committee on UMS-GIST International Symposium 2008.

Co-chairman, Central Committee on UMS-GIST International Symposium 2008.

Committee member, UMS Students Industrial Training Program 2007 at Gwangju Institute of Science and Technology, South Korea.

Chairman, UMS-GIST Joint Workshop on Information and Mechatronics 2007. 11 – 13 February 2007, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by School of Science and Technology, and School of Engineering and Information Technology (Universiti Malaysia Sabah) and School of Information and Communication, Gwangju Institute of Science and Technology, South Korea*).

Editorial Committee, 2nd Southeast Asian Natural Resources and Environmental Management

Conference (SANREM). 21 - 23 November 2006, Le Meridian Hotel, Kota Kinabalu (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Sabah's State Science and Technology Unit*).

Secretariat Committee, UMS-GIST International Symposium on Science and Technology 2006. 6 - 7 February 2006, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by Universiti Malaysia Sabah and Gwangju Institute of Science and Technology, South Korea*).

Scientific Paper Committee, UMS-GIST Colloquium on Science and Technology. 2 - 3 February 2005, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia. (*Jointly organized by School of Science and Tecgnology, and Biotechnology Research Institute (Universiti Malaysia Sabah) and Gwangju Institute of Science and Technology, South Korea*).

Technical Committee, Southeast Asian Natural Resources and Environmental Management Conference (SANREM). 17-18 October 2002, Sutera Harbour Resort, Kota Kinabalu, Sabah, Malaysia (*Jointly organized by the School of Science and Technology, Universiti Malaysia Sabah and Sabah's State Science and Technology Unit*).

Collaboration research with Prof. Dr. Semyung Wang (*see Funded Research Projects and Publications*).

Collaboration research with Prof. Dr. M. J. Brennan (*see Publications*).

AWARDS, HONORS, CERTIFICATIONS

Silver Medal, **37th International Exhibition of Inventions - New Techniques and Products**, Geneva. April 1-5, 2009.

Merit in Service Award from Universiti Malaysia Sabah in 2008.

Merit in Service Award from Universiti Malaysia Sabah in 2007.

Universiti Malaysia Sabah 10th Anniversary's Special Awards, 2007.

Merit in Service Award from Universiti Malaysia Sabah in 2006.

Listed in the **25th Silver Anniversary Edition of Who's Who in the World**

Listed in **Marquis Who's Who of Emerging Leaders** 2006 & 2007

Listed in the 1st Edition of **Marquis Who's Who in Asia** 2006-2007.

Listed in the **Marquis Who's Who in Science and Engineering** 2006-2007.

Listed in the **Cambridge Blue Book** 2nd Edition by the International Biographical Centre, Cambridge, England.

Listed in the "**2000 Outstanding Intellectuals of the 21st Century**", International Biographical Centre, Cambridge, England.

Awarded "**The Decree of Excellence**" 2006 by International Biographical Centre, Cambridge, England.

Awarded as **Leading Educators of the World** 2006 by International Biographical Centre, Cambridge, England.

Awarded as **Leading Engineers of the World** 2006 by International Biographical Centre, Cambridge, England.

21st Century Award for Achievement from International Biographical Centre, Cambridge, England.

Listed in the **23rd Edition of Marquis Who's Who in the World** 2006.

Merit in Service Award 2005, Universiti Malaysia Sabah.

Quality Award 2005, Universiti Malaysia Sabah.

Awarded Excellent Scientist in Malaysia 2005, Ministry of Higher Education, Malaysia.

Named as **the most innovative lecturer**, MAGRA 2005.

Silver Medal, **Seoul International Invention Fair** 2004, Seoul, South Korea.

Postdoctoral Fellowship Award from Brain Korea 21 (BK21), Department of Education, South Korea (Jun 2003 – December 2003).

Excellence in Service Award 2003, Universiti Malaysia Sabah.

Qualified **Industrial Radiographer**, National Vocational Training Council of Malaysia.

Holder of the **Radiation Protection Officer certificate**.

Universiti Malaysia Sabah's Scholarship Award to pursue PhD at the University of Southampton (1996 - 1999).

Sabah's State Government Scholarship Award, Bachelor Degree Programme (1988 -1992, UKM).

Sabah's State Government Scholarship Award, Matriculation Program (1987 - 1988).

Best Student Award, Form 4 Science 1, Sabah College (1985).

Best Student Award, Lower Secondary School Certificate, SMK Abdul Rahim, Kudat (1983).

RESEARCH INTERESTS

Quantum Acoustic.

Renewable Energy.

Noise and Vibration Control.

Condition monitoring.

Audio Signal Characterization.

Acoustics of Traditional Musical Instruments.

Bioacoustic.

Environmental Noise Pollution and Vibration.

FUNDED RESEARCH PROJECTS

Has received a total amount RM358,400 of research funding.

1. Vibroacoustics studies of Sundatang (**Leader**). **2008 - 2009**.
Team member: Mr. Joisin Romut (Sabah Cultural Board) & Mr. Ronald Yusri Batahong
Funding: Sabah Cultural Board.
Amount: RM5,000.
2. FRG0007-ST-1/2006 - Quantum acoustics (**Leader**). **2008 - 2010**.
Team member: Prof. Datuk Dr. Mohd. Noh Dalimin, Mr. Alvie Lo Sin Voi.
Funding: Fundamental Research Grant Scheme, Ministry of Higher Education.
Amount: RM41,000.
3. FRGS0031-ST-1/2006 - Bioacoustics Signal Processing (**Leader**). **2008-2010**.
Team member: Prof. Datuk Dr. Mohd. Noh Dalimin, Assoc. Prof. Dr. Abdul Hanid Ahmad, Assoc. Prof. Dr. Ho Chong Mun.
Funding: Fundamental Research Grant Scheme, Ministry of Higher Education.
Amount: RM112,000.
4. Noise and Vibration Control of Acoustically Excited Rectangular Plate Using Tunable Vibration Neutralizers (**Leader**). **2004 - 2006**.
Funding: Ministry of Science, Technology and Innovation, Malaysia under Intensifying Research in the Priority Area (IRPA).
Amount: RM132,400.
Team member: Prof. Dr. Semyung Wang
Note: A collaboration research with Prof. Dr. Semyung Wang, Gwangju Institute of Science and Technology, Republic of Korea.
5. Control of Sound Power Transmission Through a Rectangular Plat. **June - December 2003**.
Funding: Brain Korea 21 (BK21), Department of Education, Korea.
Amount: USD10,500.
Note: The research was conducted at Gwangju Institute of Science and Technology, South Korea hosted by Prof. Dr. Semyung Wang.

6. Acoustic properties of Sompoton Musical Instrument (**sole researcher**). **2003 - 2005**.
Funding: Fundamental Research Grant, Universiti Malaysia Sabah.
Amount: RM10,000.
7. Acoustic Properties of Kulintangan Musical Instrument (**sole researcher**). **2002 - 2004**.
Funding: Fundamental Research Grant, Universiti Malaysia Sabah.
Amount: RM11,000.
8. Human Voice Characterization (**sole researcher**). **2001 - 2002**.
Funding: Young Researcher's Research Grant, Universiti Malaysia Sabah.
Amount: RM7,000.

INVENTIONS AND INNOVATIONS

- Acoustic Chamber JedMarkLV-2** (*co-invented by Chong Khim Phin, Markus Atong and Alvie Lo Sin Voi*). Awarded Silver Medal at the **37th International Exhibition of Inventions - New Techniques and Products**, Geneva, Switzerland. April 1-5, 2009.
- Acoustic Chamber JedMarkLV-1** (*co-invented by Chong Khim Phin, Markus Atong and Alvie Lo Sin Voi*). Awarded silver medal in Malaysia BioInno Award 2008, 7-9 October, 2008. Kuala Lumpur Convention Center.
- Experimental Investigation on the Effects of Audible Sound to the Growth of *Aspergillus Niger*** (*co-authored by Chong Khim Phin & Poopathy Muthu Karippen*). Awarded Bronze Medal, UMS Competition on Research and Invention 2008. 19th – 24th August, 2008.
- Acoustic-Microbial Chamber JedMarkLV-1** (*co-invented by Markus Atong and Alvie Lo Sin Voi*). Displayed and certified in the UMS Competition on Invention and Innovation 2007.
- Electrical Power Genertor Using Wasted Electrical Equipment/Accessories** (*co-invented by Alvie Lo Sin Voi*). Displayed and certified in the UMS Competition on Invention and Innovation 2007.
- Sound Reproduction Kit for Percussion Musical Instruments**. Awarded Silver Medal, Seoul International Invention Fair 2004, 10th. - 14th December, 2004, Seoul, South Korea.
- Sound Identification Using Multimedia Computer with Matlab Software**. Submitted to School of Science and Technology on July 29, 2002 for the nomination of UMS Best Research Award, 2002.

PUBLICATIONS

Thesis

1. **Jedol Dayou**, 1999. *Global Control of Flexural Vibration of a One Dimensional Structure Using Tunable Vibration Neutralizer*. PhD Thesis, Institute of Sound and Vibration Research, University of Southampton, United Kingdom.
2. **Jedol Dayou**, 1996. *Optimization of the Image Quality of Direct Method Thermal Neutron Radiography*. MSc Dissertation, National University of Malaysia, Malaysia.
3. **Jedol Dayou**, 1992. *Optical and Electrical Conduction Properties of Lyotropic Liquid Crystal*. Final Year Project Dissertation, National University of Malaysia, Malaysia.

Books

1. Mohd. Harun Abdullah, Mariam Abd. Latip, Markus Atong, Von Leong Wan, Baba Musta, **Jedol Dayou**, How Siew Eng & Miroslav Radojevic. 2006. *Proceedings of the 2nd Southeast Asian Natural Resources and Environmental Managemant (SANREM) Conference*. 21-23 November 2006, Kota Kinabalu, Sabah, Malaysia. ISBN 983-2643-94-5.
2. **Jedol Dayou**, Lee Ping Chin, Kartini Saibeh, Darnesah Gabda, Moh Pak Yan & Jupikely James Silip. 2005. *Proceedings of the Seminar on Science and Technology 2004*. Kota Kinabalu: Universiti Malaysia Sabah. ISBN 983-2643-65-1.

3. **Jedol Dayou**. 2002. *Introduction to Physics of Light* (in Malay). Kota Kinabalu: Universiti Malaysia Sabah. ISBN 983-2643-03-1.
4. Mohd. Noh Dalimin, Hariyadi Soetedjo, **Jedol Dayou** & Hasiah Salleh. 2001. *FIZIK 2000: Proceedings of the National Seminar on Physics*. ISBN 983-2188-77-6.

Journal Papers

1. **Jedol Dayou**, Man-Sang, C., Dalimin, M. N. & Wang, S. 2009. Generating electricity using piezoelectric material. To appear in *Special Edition of Borneo Science Journal 2009*.
2. Poopathy Muthu Karippen, **Jedol Dayou** & Chong Khim Phin. 2009. Experimental investigation on the effects of audible sound to the growth of *Aspergillus* spp. *Modern Applied Science* **3**(4): 137-141
3. Joanna Cho Lee Ying, Chong Khim Phin & **Jedol Dayou**. 2009. Experimental investigation on the effects of audible sound to the growth of *Escherichia coli*. *Modern Applied Science* **3**(3): 124-127
4. Yongsoo Kyong, Daesung Kim, **Jedol Dayou**, Kyihwan Park & Semyung Wang. 2008. Mode shape reconstruction of an impulse excited structure using continuous scanning laser Doppler vibrometer and empirical mode decomposition. *Review of Scientific Instruments* **79**(7): 075103(12pages) (**ISI Impact factor in 2006: 1.541**).
5. **Jedol Dayou** & Semyung Wang. 2006. Derivation of the fixed-points theory with some numerical simulations for global vibration control of structure with closely spaced natural frequencies. *Mechanics Based Design of Structures and Machines* **36**(1): 49 - 68 (available online at <http://www.journalsonline.tandf.co.uk/>) (**ISI Impact factor: 0.245**).
6. **Jedol Dayou**. 2006. Fixed points theory for global vibration control using vibration neutralizer. *Journal of Sound and Vibration* **292**(3-5): 765 - 776 (available online at <http://dx.doi.org/10.1016/j.jsv.2005.08.032>) (**ISI Impact factor: 0.828**).
7. **Jedol Dayou**. 2005. A new application of the Fixed-Points theory for the control of kinetic energy of a continuous structure. *International Journal of Acoustics and Vibration* **10**(4): 170-174.
8. **Jedol Dayou** & S. M. Kim. 2005. Control of kinetic energy of a one dimensional structure using multiple vibration neutralizers. *Journal of Sound and Vibration* **281**(1-2):323-340 (available online at <http://dx.doi.org/10.1016/j.jsv.2004.01.017>) (**ISI Impact factor: 0.898**).
9. **Jedol Dayou**. 2003. Determination of the optimal tuning ratio of a tunable vibration neutralizer using quadratic minimization technique. *Physics Journal of Malaysia* **24**(3&4): 155 – 159.
10. **Jedol Dayou** & M. J. Brennan. 2003. Experimental verification of the optimal tuning of a tunable vibration neutralizer for global vibration control. *Applied Acoustics*. **64**(3): 311 – 323 (available online at [http://dx.doi.org/10.1016/S0003-682X\(02\)00067-1](http://dx.doi.org/10.1016/S0003-682X(02)00067-1)) (**ISI Impact factor: 0.464**).
11. **Jedol Dayou** & M. J. Brennan. 2002. Global control of structural vibration using multiple tuned tunable vibration neutralizers. *Journal of Sound and Vibration*. **258**(2): 345 - 357 (available online at <http://dx.doi.org/10.1006/jsvi.2002.5188>) (**ISI Impact factor: 0.829**).
12. **J. Dayou** & M. J. Brennan. 2001. Optimum tuning of a vibration neutralizer for global vibration control. *Journal of Mechanical Engineering Science (Part C)* **215**(8): 933 - 942 (available online at <http://www.ingentaconnect.com/>).
13. M. J. Brennan & **Jedol Dayou** 2001. Global control of vibration using a tunable vibration neutralizers. *Noise and Vibration Worldwide* **32**(5): 16 – 23 (available online at <http://www.ingentaconnect.com/>).
14. M. J. Brennan & **J. Dayou**. 2000. Global control of vibration using a tunable vibration neutralizer. *Journal of Sound and Vibration*. **232**(3): 585-600 (available online at <http://dx.doi.org/10.1006/jsvi.1999.2757>) (**ISI Impact factor: 0.799**).
15. **Jedol Dayou**, Elias Saniman, Abdul Razak Daud, Abdul Aziz Mohamed, Azali Muhammad. 1995. Determination of Photon Detector Coefficient in Neutron Flux Study. *Nuclear Science Journal of Malaysia*. **13**(1): 11-20.
16. **Jedol Dayou**, Azali Muhammad, Abd. Aziz Mohamed, Abdul Razak Daud & K. Kamali

- Moghadam. 1993. Preliminary research on the use of films in direct method thermal neutron radiography. *Physics Bulletin of the Technology University of Malaysia*. **6**(3): 96 - 101.
17. **Jedol Dayou**. 1993. The use of X-ray intensifying screen in neutron radiography. *Nuclear Science Journal of Malaysia*. **11**(1): 99.

Conference Papers

1. **Jedol Dayou**, Man-Sang, C., Dalimin, M. N. & Wang, S. 2008. Piezoelectric materials as a new electrical power generator. *Proceedings of the 3rd UMS-GIST International Symposium on Science and Technology 2008*. December 1-3, 2008, Gwangju Institute of Science and Technology, South Korea.
2. Ronald Yusri Bartahong & **Jedol Dayou**. 2008. Frequency measurement of sound frequency using multimedia computer and its application in physics education. *Seminar on Educational Research, Teachers Institute, Sabah's Zone*. November 5-6, 2008, Seafest Hotel, Semporna, Sabah, Malaysia.
3. Man-Sang, C., Dalimin, M. N., Wang, S. & **Jedol Dayou**. 2008. Study on energy storage for piezoelectric energy harvesting. *Proceedings of the 7th. Annual Seminar on Science and Technology*. October 29-30, 2008, Grand Dorsset Hotel, Labuan, Malaysia.
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