

## CURRICULUM VITAE



### A. BUTIR-BUTIR PERIBADI (Personal Details)

Nama Penuh (Full Name)	SECA GANDASECA		Gelaran (Title): Assoc. Prof. Dr.
No. MyKad / No. Pasport (Mykad No. / Passport No.) A5057738	Warganegara (Citizenship) Indonesian	Bangsa (Race)	Jantina (Gender) Male
Jawatan (Designation)	Associate Professor	Tarikh Lahir (Date of Birth)	30/08/1966

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
Department of Forest Production, Faculty of Forestry, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan, Malaysia Tel: 03-8946-7176	Department of Forest Production, Faculty of Forestry, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan, Malaysia Tel: 03-8946-7176 Fax: 03-8943-2514	E-mail: seca@upm.edu.my  URL:  H/P:0194830370

### B. KELAYAKAN AKADEMIK (Academic Qualification)

Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
PhD	Kyoto University, Japan	1998	Forest Engineering
M.Agr	Kyoto University, Japan	1995	Forest Engineering
Bachelor	Bogor Agricultural University, Indonesia	1989	Forest Management

### C. KEMAHIRAN BAHASA (Language Proficiency)

Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English				√	
Bahasa Melayu				√	
Japanese			√		

### D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (Scientific experience and Specialisation)

Organization	Position	Start Date	End Date	Expertise
International Symposium on Tropical Forest Ecosystem Science and Management: Challenge and Solutions 2013.	Chairman of Organizing Committee	11 September 2013	13 September 2013	Forest Engineering

International Symposium on Rehabilitation of Tropical Rainforest Ecosystem UPM-Mitsubishi 2011	Chairman of the Session	24 October 2011	25 October 2011	Forest Rehabilitation
Joint Seminar UPM, JFES, IUFRO and APAFRI	Chairman of Organizing Committee	7 March 2005	8 March 2005	Forest Engineering
International Union Forest Research Organization	Deputy Coordinator	26 August 2000	Now	Forest in the Tropic
Kyoto University, Japan	Post Doctoral	October 2000	July 2001	Forest Precision
Forest Research Institute of Malaysia (FRIM)	Participate	3 September, 2000	6 September, 2000	Reduced Impact Logging

#### E. PEKERJAAN (Employment)

Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Universiti Putra Malaysia	Associate Professor	Department of Forest Production	19 June 2014	18 June 2016
Universiti Putra Malaysia Bintulu Sarawak Campur	Associate Professor	Department of Forest Science	15 June 2004	18 June 2014
Bogor Agricultural University	Senior Lecturer	Department of Forest Technology	1 September 1997	14 June 2004
Kiani Lestari Sdn. Bhd	Supervisor	Department of Research and Development	1 March 1991	31 March 1992
Santi Murni Plywood Sdn. Bhd.	Supervisor	Department of Production	1 March 1990	28 February 1991

#### F. ANUGERAH DAN HADIAH (Honours and Awards)

Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	Scholarship for Research Student Program.	MONBUSHO, Japan.	International	1993
Academic Awards	Scholarship for Master Program.	MONBUSHO, Japan.	International	1993-1995
Academic Awards	Scholarship for Ph.D. Program.	MONBUSHO, Japan.	International	1995-1998
Academic Awards	Freezaillah Fellowship Award 1997: For attending IUFRO Seminar in New Zealand 1997	ITTO, Yokohama, Japan.	International	1997
Academic Awards	Fellowship for Wood Processing Technology Training.	Tanabe Foundation, Shimane, Japan.	International	2002
Academic Awards	Scientific Assisstant Scholarship for the IUFRO World Congress	APAFRI	International	2000
Academic Awards	Fellowship for Post-Doctoral Research Program.	Kyoto University Foundation, Japan	International	2000-2001
Non-Academic Awards	Excellent Service Award 2006	UPM	University	2006
Academic Awards	Bronze Award PRPI 2009	UPM	University	2008
Academic Awards	Excellent Teaching Award 2009	UPM	University	2009
Non-Academic	Anugerah Perkhidmatan Cemerlang	UPM	University	2009

Awards	2009			
Academic Awards	Bronze Award PRPI 2010	UPM	University	2010
Academic Awards	Excellent Teaching Award 2014	UPM	University	2014
Non-Academic Awards	ITTO Fellowship Award 2014: For attending the IUFRO World Congress 2014, Salt Lake City, Utah, USA, Oct. 2-14, 2014.	ITTO, Yokohama, Japan	International	2014
Non-Academic Awards	Anugerah Perkhidmatan Cemerlang 2014	UPM	University	2014

**G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan)** (List of publications – author (s), title, journal, volume, page and year published)

<i>Journal</i>	<ol style="list-style-type: none"> <li>1) Seca, G.; Yoshimura, T.; Yamamoto, T.; Kanzaki, K (1995) : Working Time Design for Industrial Forest Plantation Workers in East Kalimantan. Journal of Japan Forest Research. The Japanese Forestry Society. J. For. Res. 2 : 21 – 24.</li> <li>2) Seca, G.; Yoshimura, T.; Yamamoto, T.; Kanzaki, K (1995) : Working Conditions and Physiological Loads of Industrial Forest Plantation Workers in East Kalimantan. Journal of Japan Forest Engineering Association 10 (2): 125 – 130 (in Japanese with English Summary).</li> <li>3) Seca, G.; Yoshimura, T.; Yamamoto, T.; Kanzaki, K (1995) : Study on Evaluation of Fatigue of Industrial Forest Plantation Workers in East Kalimantan. Journal of Japan Forest Engineering Association 10 (2): 117 – 123 (in Japanese with English Summary).</li> <li>4) Slamet, M.; Seca, G.; Yoshimura, T.; Kanzaki, K (1995) : A Study on Evaluate Mental Acceptability of Transmigration for Industrial Forest Plantation Workers in East Kalimantan. Journal of Japan Forest Engineering Association 10 (1): 43 – 51 (in Japanese with English Summary).</li> <li>5) Slamet, M.; Seca, G.; Yoshimura, T.; Kanzaki, K (1995) : Decision Making Factors of Transmigrants in East Kalimantan, Frontier University of Mulawarman No.16: 121–129 (in Indonesian with English Summary).</li> <li>6) Slamet, M.; Seca, G.; Yoshimura, T.; Kanzaki, K (1995) : Perception of Environmental Image of Transmigration for Industrial Forest Plantation Workers in East Kalimantan. Rimba Indonesia 30 (1-2): 9 –15.</li> <li>7) Yamamoto, T.; Numata, K.; Yoshimura, T.; Seca, G. (1996) : Physiological Evaluation of Slope Protective Workers of Secondary Road. Rep. Kyoto Univ. For. No. 29: 107–114 (in Japanese).</li> <li>8) Seca, G.; Yoshimura, T.; Yamamoto, T.; Kanzaki, K (1998) : A Biomechanical Analysis of Industrial Forest Plantation Workers in East Kalimantan. Journal of Japan Forest Research. The Japanese Forestry Society. J. For. Res. 3 : 75 – 79.</li> <li>9) Seca, G.; Slamet, M.; Yoshimura, T (1999): A Study on Logging Truck Replacement Policy to Help Improve Efficiency of Log Transportation (A Case Study at PT. Kiani Lestari, East Kalimantan). J. For. Prod. Tech. Vol. XII No. 1: 44 – 48.</li> <li>10) Seca, G. and Yoshimura, T (1999): Ergonomics Evaluation and Improvement of Forestry Works in PT. Kiani Hutani Lestari. J. For. Prod. Tech. Vol. XII No. 1: 44 – 48.</li> <li>11) Seca, G. and Yoshimura, T (2000) : Operasi Logging di Areal Curam Menggunakan Power Shovel yang Dimodifikasi. Media Keteknikan Hutan Indonesia. FORESTECT, Majalah PERPPHINDO. Vol. I : 10 – 13.</li> <li>12) Yoshimura, T and Seca Gandaseca (2000) : Natural Forest Harvesting in Indonesia – A Case Study on the Productivity and Environmental Impacts. Trans. J. For. Soc. 111: 460-461 (in Japanese).</li> <li>13) Seca, G. and Yoshimura, T (2001) : Occupational Safety, Health and Living Conditions of Forestry Workers in Indonesia. Journal of Japan Forest Research. The Japanese Forestry Society. J. For. Res. Vol. 6 : 201 –205.</li> <li>14) Seca, G., Yoshimura, T and Hasegawa, H. (2001): Boundary Survey Using GPS for Site Classification. Trans. J. For. Soc. 112: 419-420. (in Japanese).</li> <li>15) Seca Gandaseca and Ainun Najib (2003): Food and Water Intake of Forestry Worker in PT. ITCI Kartika Utama, East Kalimantan. Jurnal Ilmiah</li> </ol>
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	<p>GAKURYOKU, Perhimpunan Alumni Jepang (PERSADA). Vol. IX. No. 2, 2003: 193-196.</p> <p><b>16)</b> Seca G, Gunawan S, Roro P.A. (2004): Biomechanic Analysis of Felling and Bucking Activities. Journal of Science GAKURYOKU, Perhimpunan Alumni Jepang (PERSADA). Vol. X, No. 1., 2004.</p> <p><b>17)</b> Seca G, and Voon, C.W. (2007): Performance of Safety and Health of Edible Oil Factory workers in Bintulu. Journal of Agriculture Science "Gakuryoku", Vol. XII, No.2, 2007: 8 – 12.</p> <p><b>18)</b> Ahmad, F.M, Seca G, Osumanu H.A and Nik M.A.M. (2008): Compaction of Soil Under 3 Different Condition of Land in Bukit Nyabau Forest UPMKB. Journal of Agriculture Science "Gakuryoku", Vol. XIV, No. 2, 2008: 1 – 8.</p> <p><b>19)</b> Izyan Alwani and Seca Gandaseca (2008): Volume Estimation of Standing Shorea sp on UPM-JISE Rehabilitated Forest in Bintulu, Sarawak. Jurnal Manajemen Hutan Tropika (JMHT), ISSN: 0215-157X, Vol. XIV, No. 3, 2008: 111 – 114.</p> <p><b>20)</b> Rajeswari A.P Murugayah, Seca Gandaseca, Osumanu Haruna Ahmed and Nik Muhamad Ab. Majid (2009): Effect of Different Ages of a Rehabilitated Forest on Selected Physico-chemical Properties. American Journal of Applied Sciences. ISSN 1546-9239. Volume 6, No. 6, 2009: 1043-1046.</p> <p><b>21)</b> Seca G., John S., Osumanu H.A. and Nik M. A. (2009): Vegetation Assessment of Peat Swamp Forest Using Remote Sensing. American Journal of Agricultural and Biological Sciences. American Journal of Agricultural and Biological Sciences. ISSN 1557-4989. Volume 4, No. 2, 2009: 167-172.</p> <p><b>22)</b> Anton, E.S, Seca G., Osumanu H.A. and Nik M.A. (2009): Effect of Precipitation Fluctuation on Soil Carbon Storage of a Tropical Peat Swamp Forest. American Journal of Applied Sciences. ISSN 1546-9239. Volume 6, No. 8, 2009: 1484-1488.</p> <p><b>23)</b> Anton, E.S, Seca G., Osumanu H.A. and Nik M.A. (2009): Influence of Chemical Properties on Soil Carbon Storage of a Tropical Peat Swamp Forest. American Journal of Applied Sciences. ISSN 1546-9239. Volume 6, No. 11, 2009: 1970-1973.</p> <p><b>24)</b> Anton, E.S, Seca G., Osumanu H.A. and Nik M.A. (2009): Effect of Skidding Operation on Soil Carbon Storage of a Tropical Peat Swamp Forest. American Journal of Environmental Sciences. ISSN 1553-345X. Volume 5, No. 6, 2009: 722-726.</p> <p><b>25)</b> Anton, E.S, Seca G., Osumanu H.A. and Nik M.A. (2009): Effect of Logging Operation on Soil Carbon Storage of a Tropical Peat Swamp Forest. American Journal of Applied Sciences. ISSN 1553-345X. Volume 5, No. 6, 2009: 748-752.</p> <p><b>26)</b> Muhamad Ismawi S., Seca G., Osumanu H.A. and Nik M.A. (2010): Comparison of Selected Chemical Properties of Peat Swamp Forest Soil Before and After Timber Harvesting. American Journal of Environmental Sciences. ISSN 1553-345X. Volume 6, No. 2, 2010: 164-167.</p> <p><b>27)</b> Mohd Suffian F., Seca G., Osumanu H.A. and Nik M.A. (2010): Effect of Converting Secondary Tropical Peat Swamp Forest into Oil Palm Plantation on Selected Peat Soil Physical Properties. American Journal of Environmental Sciences. ISSN 1553-345X. Volume 6, No. 4, 2010: 402-405.</p> <p><b>28)</b> Noraini Rosli, Seca G., Johan I., and M. Iqbal J. (2010): Comparative Study of Water Quality at Different Peat Swamp Forest of Batang Igan, Sibul, Sarawak. American Journal of Environmental Sciences. ISSN 1553-345X. Volume 6, No. 5, 2010: 416 – 421.</p> <p><b>29)</b> Empi Rambok, Seca G., Osumanu H.A. and Nik M.A. (2010): Comparison of Selected Soil Chemical Properties of Two Different Mangrove Forests in Sarawak. American Journal of Environmental Sciences. ISSN 1553-345X. Volume 6, No. 5, 2010: 438 - 441.</p> <p><b>30)</b> Ahmad Shukri M. N., Seca G., Osumanu H.A. and Nik M.A. (2011): Effect of Tropical Peat Swamp Forest Clearing on Soil Carbon Storage. American Journal of Agricultural and Biological Sciences. ISSN 1557-4989. Volume 6, No. 1, 2011: 80 - 83.</p> <p><b>31)</b> Roland Kueh Jui Heng, Nik Muhamad Abd. Majid, Seca Gandaseca, Osumanu Haruna Ahmed, Silvester Jemat and Melvin Ku Kin Kin (2011): Forest Structure Assessment of a Rehabilitated Forest. American Journal of Agricultural and Biological Sciences. ISSN 1557-4989. Volume 6, No.2, 2011: 256-260.</p> <p><b>32)</b> Seca Gandaseca, Noraini Rosli, Johin Ngayop and Chandra Iman Arianto (2011): Status of Water Quality Based on the Physico-Chemical Assessment on</p>
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	<p>river Water at Wildlife Sanctuary Sibuti Mangrove Forest, Miri Sarawak. American Journal of Environmental Sciences. ISSN 1553-345X. Volume 7, No. 3, 2011: 269-275.</p> <p><b>33)</b> Mohd. Suffian Firdaus, Seca Gandaseca and Osumanu Haruna Ahmed (2011): Effect of Drainage and Land Clearing on Selected Peat soil Physical Properties of Secondary Peat Swamp Forest. International Journal of Physical Sciences. ISSN 1992-1950. Volume 6, No. 23, 2011: 5462-5466.</p> <p><b>34)</b> I.A. Chandra, G. Seca and M.K. Abu Hena (2011): Aboveground Biomass Production of <i>Rhizophora apiculata</i> Blume in Sarawak Mangrove Forest. American Journal of Agricultural and Biological Sciences. ISSN 1557-4989. Volume 6, No. 4, 2011: 469-474.</p> <p><b>35)</b> S.M. Ismawi, Seca Gandaseca and Osumanu Haruna Ahmed (2012): Effect of Deforestation on Soil Major Macro-Nutrient and other Selected Chemical Properties on Secondary Tropical Peat Swamp Forest. International Journal of Physical Sciences. ISSN 1992-1950. Volume 7, No. 14, 2012: 2225 - 2228.</p> <p><b>36)</b> Mohd Suffian Firdaus, Seca Gandaseca, Osumanu Haruna Ahmed and Nik Muhamad Majid (2012): Comparison of Selected Physical Properties of Deep Peat Within Different Ages of Oil Palm Plantation. International Journal of Physical Sciences. ISSN: 1992-1950. Vol. 7. No. 42: 5711 – 5716.</p> <p><b>37)</b> Roland Kueh Jui Heng, Nik Muhamad Abd. Majid, Seca Gandaseca, Osumanu Haruna Ahmed, Silvester Jemat and Melvin Ku Kin Kin (2012): Assessment of Micrometeorology at Selected Age Stands in a Rehabilitated Forest of Sarawak, Malaysia. Journal of Tropical Biology and Conservation. Volume 9, No.1, 2012: 83 – 95.</p> <p><b>38)</b> Roland Kueh Jui Heng, Nik Muhamad Abd. Majid, Seca Gandaseca, Osumanu Haruna Ahmed (2013): Estimation of Total Above Ground Biomass at Selected Age Stands of a Rehabilitated Forest. Journal of Tropical Biology and Conservation. Volume 9, No.2, 2013: 164 – 175.</p> <p><b>39)</b> Roland Kueh Jui Heng, Nik Muhamad Abd. Majid, Seca Gandaseca, Osumanu Haruna Ahmed (2013): Above Ground Biomass-carbon Partitioning, Storage and Sequestration in a Rehabilitated Forest, Bintulu, Sarawak, Malaysia. Journal of Sains Malaysia. ISSN 0126-6039. Volume 42, No.8, 2013: 1041 – 1050.</p> <p><b>40)</b> Chandra I. Arianto, Rahmi and Seca Gandaseca (2013): Effects of Mangrove on Soil Carbon Storage (<i>Pengaruh Mangrove dalam Mengikat Karbon Tanah</i>). Journal of Landscape Architecture: Water in Landscape Architecture. (<i>Arsitektur Lanskap Journal: Air dalam Arsitektur Lanskap</i>). Department of Landscape Architecture, Faculty of Landscape Architecture and Environmental Technology, Trisakti University. ISSN1412-260X, Vol. 3, No. 4: 16-22.</p> <p><b>41)</b> Seca Gandaseca, Noraini Rosli, Mohammad Shawkat Hossain and Chandra Imam Arianto (2014): Assessment of Oil Palm Plantation and Tropical Peat Swamp Forest Water Quality by Multivariate Statistical Analysis. American Journal of Environment Sciences. ISSN 1553-345X. Volume 10, No. 4, 2014: 391-402.</p> <p><b>42)</b> Seca Gandaseca, Noraini Rosli, Ahmad Mustapha Mohamad Pazi and Chandra Iman Arianto (2014): Effects of Land Use on River Water Quality of Awat-Awat Lawas Mangrove Forest Limbang Sarawak Malaysia. International Journal of Physical Sciences. ISSN 1992-1950. Vol. 9. No. 7: 386 – 396.</p> <p><b>43)</b> Seca Gandaseca, Muhamad Ismawi Salimin and Osumanu Haruna Ahmed (2014): Effect of Cultivation in Different Age's Oil Palm Plantation on Selected Chemical Properties of Peat Swamp Soils. Journal of Agriculture, Forestry and Fisheries, Science Publication Group. ISSN:2328-563X. Vol. 3. No. 1: 6 – 9.</p> <p><b>44)</b> Seca Gandaseca, Noraini Rosli, Ahmad Mustapha Mohamad Pazi and Chandra Iman Arianto (2014): Effects of Land Use on River Water Quality of Awat-Awat Lawas Mangrove Forest Limbang Sarawak Malaysia. International Journal of Physical Sciences. ISSN 1992-1950. Vol. 9. No. 7: 386 – 396.</p> <p><b>45)</b> Prijanto Pamoengkas, Seca Gandaseca, Gusti Hardiyansyah, Priyanto and Muhamad Rizky Jamaludin (2014). Journal of Agriculture, Forestry and Fisheries. Science Publication Group. ISSN:2328-5638. Vol. 3. No. 5: 392 – 396.</p> <p><b>46)</b> Candra Imam Ariyanto, Seca Gandaseca, Noraini Rosli and Ahmad Mustapha Mohamad Pazi (2014): Vegetation Assessment of Awat-Awat Mangrove Forest, Sarawak, Malaysia. The Malaysia Forester. Vol. 77, No. 1: 65 – 72.</p> <p><b>47)</b> Candra Imam Ariyanto, Seca Gandaseca, Noraini Rosli, Ahmad Mustapha</p>
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	<p>Mohamad Pazi, Osumanu Haruna Ahmed, Hazandy Abdul Hamid and Nik Muhamad Abdul Majid (2015): Soil Carbon Storage in Dominant Species of Mangrove Forest of Sarawak, Malaysia. <i>International Journal of Physical Sciences</i>. ISSN 1992-1950. Vol. 10, No. 6: 210 – 214.</p> <p><b>48)</b> Prijanto Pamoengkas, Seca Gandaseca, Wahyudi and Dien Andini (2015): Determination of Silviculture System Based on Vegetation Recovery Process in Logged-Over Area in Central Kalimantan, Indonesia. <i>Wulfenia Journal</i>. ISSN 1561-882X. Vol. 22, No. 5: 163 – 182.</p> <p><b>49)</b> Seca Gandaseca, Noraini Rosli, Mohd Hanafi Idris, Osumanu Haruna Ahmed and Ahmad Mustapha Mohamad Pazi (2015): Effects of Converting Tropical Peat Swamp Forest into Oil Palm Plantation on Water Quality. <i>American Journal of Applied Sciences</i>. ISSN 1554-3641. Vol. 12, No. 8: 525-532.</p> <p><b>50)</b> Seca Gandaseca, Nur Liyana Abd. Wahab, Ahmad Mustapha Mohamad Pazi, Noraini Rosli and Pakhriazad Hassan Zaki (2016): Comparison of Water Quality Status of Disturbed and Undisturbed Mangrove Forest at Awat-Awat Lawas Sarawak. <i>Open Journal of Forestry</i>. Vol. 1, No. 6: 14-18.</p> <p><b>51)</b> Ahmad Mustapha Mohamad Pazi, Seca Gandaseca, Noraini Rosli, Ahmad Hanafi Hamzah, Albert Empawi Tindit and Lurna Nyangon (2016): Soil pH and Carbon at Different Depth in Three Zones of Mangrove Forest in Sarawak, Malaysia. <i>The Malaysia Forester</i>. Vol. 79, No. 1&amp;2: 164 – 173.</p> <p><b>52)</b> Seca Gandaseca, Ahmad Mustapha Mohamad Pazi, Muhammad Nazrin Syafiq Zulkipli, Ahmad Hanafi Hamzah, Pakhriazad Hassan Zaki and Arifin Abdu (2016): Assessment of Nitrogen and Phosphorus in Mangrove Forest Soil at Awat-Awat Lawas, Sarawak. <i>American Journal of Agriculture and Forestry</i>. Vol. 4, No. 5: 136 – 139.</p> <p><b>53)</b> Roland Jui Heng Kueh, Nik Muhamad Majid, Osumanu Haruna Ahmed and Seca Gandaseca (2016): Assessment of Carbon Stock in Chronosequence Rehabilitated Tropical Forest Stands in Malaysia. <i>Journal of Forest and Environmental Science</i>. Vol. 32, No. 3: 302 – 310.</p>
<i>Books/ Monographs</i>	<ol style="list-style-type: none"> <li>1) Pandit, I.K.N. and Seca, G (1999): <i>The Socialization of Food Reserve Forest Program (HCP)</i>. Ministry of Food and Horticulture and Community Service Institute, Bogor Agricultural University: 1 – 12.</li> <li>2) Team Editor of Proceeding of International Forestry Seminar 2005, "Synergistic Approach to Appropriate Forestry Technology for Sustaining Rainforest Ecosystem".</li> <li>3) Team Editor of Proceeding of International Symposium on Tropical Forest Ecosystem Science and Management: Challenges and Solutions 2013.</li> <li>4) Team Editor of Proceeding of 1<sup>st</sup> International Conference on Sustainable Forest Development in View of Climate Change 2016.</li> </ol>
<i>Proceedings (Selected)</i>	<ol style="list-style-type: none"> <li><b>1)</b> Seca Gandaseca and Voon Chun Wei (2007): Safety and Health Performance of Edible Oil Factory Workers in Bintulu. <i>Proceeding 2007 Conference on Plantation Commodities. " Visionary Agriculture: Malaysia Commodity Crops In 100 Years"</i>. Malaysia Cocoa Board and Malaysia of Plantation and Commodities, Malaysia.</li> <li><b>2)</b> Seca Gandaseca, Elias and Gunawan Santosa (2007): Evaluation of Economics and Environmental Impact of Timber Harvesting Systems in East Kalimantan. <i>Conference of Forestry and Forest Product Research 2007 (CFFPR 2007)</i>. Theme: Balancing Economical and Ecological Needs. Forest Research Institute Malaysia (FRIM) 2007.</li> <li><b>3)</b> Seca Gandaseca, Muhamad Ismawi Salimin, Anton Eko Satrio, Osumanu Haruna Ahmed dan Nik Muhamad Ab. Majid (2009): Effect of Logging Operation on Carbon Storage and Chemical Properties of Tropical Peat Swamp Forest Soil in Sarawak. <i>Proceeding of the International Conference on Logging and Industrial Ecology</i>. Northeast Forestry University Press, 2009.</li> <li><b>4)</b> Seca Gandaseca, Mohd Zuaney Sulaiman, Osumanu Haruna Ahmed dan Nik Muhamad Ab. Majid (2009): A Comparative Study on Water Quality at Sibul Peat Swamp Forest, Before and After Harvesting System. <i>Proceeding of the Conference on Natural Resources in the Tropics 3</i>. Universiti Malaysia Sarawak Press, 2009.</li> <li><b>5)</b> Empi R., Seca G., Osumanu haruna Ahmed and Nik Mumaham Ab. Majid (2010): Biomass production and soil chemical properties of Wildlife Sanctuary</li> </ol>

- Sibuti, Miri Mangrove Forest. Proceeding International Symposium of Forestry and Forest Product 2010. "Addressing Global Concerns and Changing Society Needs". The Legend Hotel, Kuala Lumpur, Malaysia, 5 – 7 October 2010.
- 6) Chandra Iman A., Seca G., Hazandi. and Ika Putra (2010): Quantification of Biomass Production in Planted Exotic Forest. Proceeding International Symposium of Forestry and Forest Product 2010. "Addressing Global Concerns and Changing Society Needs". The Legend Hotel, Kuala Lumpur, Malaysia, 5 – 7 October 2010.
  - 7) Ahmad Shukri M. N., Seca G., Osumanu haruna Ahmed and Nik Mumaham Ab. Majid (2010): Effect of Tropical Peat Swamp Forest Clearing on Soil Carbon Storage in Sarawak. Proceeding International Symposium of Forestry and Forest Product 2010. "Addressing Global Concerns and Changing Society Needs". The Legend Hotel, Kuala Lumpur, Malaysia, 5 – 7 October 2010.
  - 8) Empi R., Seca G., Osumanu haruna Ahmed and Nik Mumaham Ab. Majid (2011): Assessment of Soil Chemical Properties at Wildlife Sanctuary Sibuti, Miri and Awat-Awat Lawas, Limbang Sarawak Mangrove Forest. Proceedings The 2<sup>nd</sup> International Symposium of Indonesia Wood Research Society. "Developing Wood Science and Technology to Support the Implementation of Climate Change Program". Inna Grand Bali Beach Hotel, Sanur Bali, Indonesia, 12 – 13 November 2010.
  - 9) Roland, K.J.H., Nik M. Majid, G. Seca and O.H.Ahmed (2011): "Total Aboveground Biomass of Selected Age Stand of A Rehabilitated Forest". Proceeding International Symposium on Rehabilitation of Tropical Rainforest Ecosystems 2011. Royale Chulan Hotel, Kuala Lumpur, 24 – 25 October 2011.
  - 10) Seca, G., Krishnamurthi, N., Ravivarman, S., and Amir F. M. (2011): "Comparison of Growth and Standing Volume on Monoculture and Mixed Planting System of Rehabilitated Forest in Bintulu, Sarawak". Proceeding International Symposium on Rehabilitation of Tropical Rainforest Ecosystems 2011. Royale Chulan Hotel, Kuala Lumpur, 24 – 25 October 2011.
  - 11) Seca G., Chandra I. A., Osumanu H. A. and Nik M. Majid (2013): Carbon Storage and Carbon Sequestration of Mangrove Forest in Sarawak. Proceedings the 2<sup>nd</sup> International Symposium on Tropical Forest Ecosystem Science and Management: "Challenges and Solutions". Dewan Sri Kenyalang, Universiti Putra Malaysia Bintulu Campus Sarawak, Malaysia, 11 – 13 September 2013.
  - 12) Noraini Rosli, Seca G.S., Chandra I. A. and Zahora I. (2013): Water Quality and Trace Elements Monitoring in Water from the River of Awat-Awat Lawas Mangrove Forest Limbang Sarawak, Malaysia. Proceedings the 2<sup>nd</sup> International Symposium on Tropical Forest Ecosystem Science and Management: "Challenges and Solutions". Dewan Sri Kenyalang, Universiti Putra Malaysia Bintulu Campus Sarawak, Malaysia, 11 – 13 September 2013.
  - 13) Chandra I. A., Seca, G.S., Osumanu H. A. and Nik M. Majid (2013): Soil Carbon Storage in Different Species Dominance of Sarawak Mangrove Forest. Proceedings the 2<sup>nd</sup> International Symposium on Tropical Forest Ecosystem Science and Management: "Challenges and Solutions". Dewan Sri Kenyalang, Universiti Putra Malaysia Bintulu Campus Sarawak, Malaysia, 11 – 13 September 2013.
  - 14) Seca G., Chandra I.A., Noraini R. and Ahmad Mustapha M.P. (2014): Botanical Surveys in Awat-Awat Mangrove Forest, Sarawak Malaysia. IUFRO World Congress 2014. Salt Palace Convention Center, Salt Lake City, Utah, USA. October 5 – 11, 2014.
  - 15) Seca G., Chandra I.A., Noraini R., Osumanu H.A. and Ahmad Mustapha M.P. (2014): Soil Carbon Storage in Different Species Dominance of Sarawak Mangrove Forest, Malaysia. IUFRO World Congress 2014. Salt Palace Convention Center, Salt Lake City, Utah, USA. October 5 – 11, 2014.
  - 16) Ahmad Mustapha Mohamad Pazi and Seca Gandaseca (2014): Carbon Storage of Three Areas in a Mangrove Forest in Lawas, Sarawak. Conference on Mangroves Of Asia-Pacific Countries In View Of Climate Change (MAPCVCC-2014) , 11-13 November 2014, Grand Seasons Hotel, Kuala Lumpur.
  - 17) Seca Gandaseca, Nazrin Syafiq Bin Zulkipli and Ahmad Mustapha Mohamad Pazi (2015): Assessment of Nutrient Concentration in Mangrove Forest Soil at Awat-Awat Lawas, Sarawak. International Conference on Environmental

	<p>Forensics 2015 (iENFORCE2015), 19-20 August 2015, Marriott Hotel Putrajaya, Malaysia.</p> <p><b>18)</b> Seca Gandaseca, Nur Liyana Abd. Wahab, Ahmad Mustapha Mohamad Pazi and Noraini Rosli (2015): Comparison of Water Quality Status of Disturbed and Undisturbed Mangrove Forest at Awat-Awat Lawas, Sarawak. International Conference on Environmental Forensics 2015 (iENFORCE2015), 19-20 August 2015, Marriott Hotel Putrajaya, Malaysia.</p> <p><b>19)</b> Seca Gandaseca, Ahmad Mustapha Mohamad Pazi, Ainun Najib and Wahyudi (2016): Physiological Load and Water Consumption of Forestry Workers in East Kalimantan, Indonesia. Proceeding of the 1<sup>st</sup> International Conference on Sustainable Forest Development in View of Climate Change. Bangi-Putrajaya Hotel, Kuala Lumpur, 8-11 August 2016.</p>
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#### H. PROJEK PENYELIDIKAN SEDIAADA (Current Project)

No.	Project Title	Role	Year	Source of fund	Status
1.	Determination of Key Factors Causing Lower Mangrove Productivity. (FRIM Funding: RM90,000.00)	Project Leader	2016-2017	FRIM	On-going
1.	Determination of Water and Sediment Quality Standard for Benchmarking Mangrove Ecosystem Health (GB-IPB-2015-2017: RM94,500.00)	Project Leader	2015-2017	GB-IPB Fund, UPM	On-going
2.	Development of Mass Clonal Propagation of Selected Thick Walled Bamboo Species for Industrial Uses in Malaysia (FRGS: RM 150,000.00)	Co-Researcher	2014-2016	FRGS Fund, Higher Education Malaysia;	On-going

#### I. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)

No.	Project Title	Role	Year	Source of fund	Status
1.	The Sosialization of Food Reserve Forest Program (HCP).	Researcher	1999-2001	Ministry of Food and Horticulture of Indonesia;	Completed
2.	Forest Rehabilitation and Agroforestry	Researcher	2001-2003	Natuna District Fund, Riau Islands, Indonesia;	Completed
3.	Harvesting System on Industrial Forest Plantation in Tanjung Redeb, East Kalimantan.	Researcher	2002-2003	Tanjung Redeb Hutani Lestari Sdn. Bhd.	Completed
4.	Environmental Impact of Timber Harvesting System in Sarawak	Project Leader	2007-2009	FRGS Fund, Higher Education Malaysia;	Completed
5.	Soil Carbon Sequestration and Storage in Mangrove Forest, Sarawak	Project Leader	2009-2012	RUGS Fund, UPM;	Completed
6.	Environmental Impact of Converting Peat Swamp Forest into Palm Oil Plantation in Sarawak	Project Leader	2010-2012	FRGS Fund, Higher Education Malaysia;	Completed
7.	Nutrient Flux and Transport of Organic Matter in Sarawak Mangrove Forest	Project Leader	2012-2014	RUGS Fund, UPM	Completed



8.	Assessment of Some Ecosystem Dynamic of Mangrove Forest in Sarawak	Project Leader	2012-2015	FRGS Fund, Higher Education Malaysia;	Completed
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#### J. STUDENT THESIS SUPERVISORY (On-Going)

##### I. PhD

No.	Name of Candidate	Role	Year started	Year Finish (Expected)	Status
1.	Noraini Rosli	Chairman	2013	2017	On-Going
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##### II. MASTER

No.	Name of Candidate	Role	Year started	Year Finish (Expected)	Status
1.	Muhamad Ismawi Bin Salimin	Chairman	2012	2016	On-Going
2.	Ahmad Mustapha Bin Muhamad Pazi	Chairman	2014	2016	On-Going
3.	Mastura Yakup	Co-supervisor	2014	2016	On-Going
4.	Nik Harun Al-Rashid Nik Saidin	Co-supervisor	2014	2016	On-Going
5	Ahmad Hanafi Bin Hamzah	Chairman	2016	2018	On-Going
6	Albert Empawi	Chairman	2016	2018	On-Going
7	Laurna Nyangon	Chairman	2016	2018	On-Going

##### III. BACHELOR

No.	Name of Candidate	Role	Year started	Year Finish (Expected)	Status
1.	Usama Bin Mohd. Alifa	Chairman	2015	2017	On-Going
2.	Mohd. Huzwa Bin Mat Din	Chairman	2015	2017	On-Going
3.	Muhd. Fadhli Bin Baharuddin	Chairman	2015	2017	On-Going

#### K. SAHSIAH PELAJAR

No.	Name of Student College/Group	Role	Year	Specific Task	Status
1.	Kolej Tun Perak, UPM	Fellow	2014-2016	Advisor for Academic and Cultures	On-going

#### L. PROFESSIONAL ORGANIZATION

No.	Name of Organization	Role	Year	Specific Task	Status
1.	International Union Forest Research Organization	Coordinator RG 3.07 Forest Operation in the Tropic	2014-2019	Coordination the research and activities among researchers, agencies and institutions on forest operation in the tropical forest.	On-going