

CURRICULUM VITAE



Dr. Eng. Sigit Sutikno, ST., MT

1	Nama lengkap dan gelar	Dr. Eng. Sigit Sutikno, ST., MT
2	Jenis Kelamin	Laki-laki
3	Jabatan Fungsional	Lektor
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9	Alamat Kantor	Lab. Hidroteknik, Jurusan Teknik Sipil FT Universitas Riau Jln. HR Soebrantas Km 12.5 Pekanbaru
10	Nomor Telepon/Faks	0761-7047866
11	Lulusan yang Telah Dihasilkan	S-1= 14 orang; S-2= - orang; S-3 – orang
12	Mata Kuliah yg Diampu	<ol style="list-style-type: none">1. Metodologi Penelitian (S-1)2. Metode Teknologi Konstruksi (S-1)3. Pelabuhan (S-1)4. Bangunan Air (S-1)5. Aliran Air Tanah (S-1)6. Metode Numerik Terapan (S-2)7. Hidraulika Lanjut (S-2)8. Hidrologi kualitatif dan kuantitatif (S-2)9. Penginderaan Jauh bidang SDA (S-2)

Education

Bachelor of Eng./ Civil Engineering, Gadjah Mada University. Indonesia, 1992 – 1997

Master of Eng./ Civil Engineering, Water Resources Management, Gadjah Mada University.
Indonesia, 1998 – 2002

Doctor of Eng./ Interdisciplinary Graduate School of Agriculture and Engineering,

Work Experiences

1999 – now	Lecturer & Researcher , Civil Engineering Dept., Faculty of Engineering, University of Riau.
2019 - now	Director of The Center for Disaster Studies, University of Riau.
2008 – 2012	Teaching and Research Assistant , Faculty of Engineering, University of Miyazaki
1997 – 1999	Research Assistant , Hydraulic Lab., Civil Engineering Dept, Gadjah Mada University

Personal Affiliations

International	Member , International Association for Hydro-Environment Engineering and Research (IAHR)	2015 – now
International	Member , International Association of Engineers (IAENG)	2015 – now
International	Member , Universal Association of Civil, Structural And Environmental Engineers (UACSE)	2015 – now
National	Student member , Japan Society of Civil Engineers	2008 – 2012
National	Engineer , Indonesian Hydraulic Engineer Association (HATHI)	2013 – now
National	Engineer , Indonesian Engineers Association (PII)	2006 – now
National	Member , Gadjah Mada University Alumni Association (KAGAMA)	1997 – now
National	Member, Head of PPI Miyazaki , Indonesian Student Association (PPI) Japan	2008 – 2012

Research Grants / Research Project

Year	Research Title, Position	Budget	
		Source	Amount (milion IDR)
2020	Establishment of the coastal peat sediment dynamics, Principal Researcher	JSPS & DIKTI	385
2020	Analisis Kerapatan Jaringan Alat Ukur Muka Air Tanah dan Peringatan Dini Kebakaran di Lahan Gambut, Principal Researcher	DIKTI	37
2020	Analisis Spatio-Temporal Karakteristik Kejadian Kebakaran Lahan Gambut di Provinsi Riau, Principal Researcher	DIKTI	36
2019	Kajian Hidrologi dan Pengelolaan Sumber Daya Air pada KHG Pulau Tebing Tinggi, Kabupaten Kepulauan Meranti, Provinsi Riau. Principal Researcher	BRG	340

2019	Physical and Numerical Hydrodynamic Modeling of Peat Soil Beach, Principal Researcher	DIKTI	95.665
2019	Pengembangan Model Hidrologi Untuk Analisis Strategi Adaptasi Perubahan Iklim dan Tata Guna Lahan Dalam Pengelolaan DAS-DAS di Provinsi Riau, Principal Researcher	DIKTI	90.25
2019	Model Hidrologi untuk Prediksi Muka Air Tanah dan Peringatan Dini Kebakaran di Lahan Gambut, Principal Researcher	DIKTI	57.125
2019	Pengembangan Model Tata Air Untuk Percepatan Restorasi Lahan Gambut Tropis, Principal Researcher	DIKTI	57.675
2019	Efektifitas Sekat kanal untuk Restorasi Hidrologi dan Pencegahan Kebakaran Lahan Gambut Tropis	DIKTI	56.6

2018	Physical and Numerical Hydrodynamic Modeling of Peat Soil Beach (Stage II), Principal Researcher, Collaboration with University of Miyazaki, Japan.	DIKTI	130
2018	Provision of a method to control collapse of coastal tropical peatland by applying groundwater management and tidaflat formation mechanism, Hydrologist, Collaboration with Yamaguchi University, Japan.	JSPS, Japan (KAKEN)	1807 (JPY13,900,00)
2018	Water Resources Management for Peatland Restoration in The KHG of Pulau Tebing Tinggi, Kepulauan Meranti Regency, Principal Researcher	BRG	350
2017	Physical and Numerical Hydrodynamic Modeling of Peat Soil Beach (Stage I), Principal Researcher, Collaboration with University of Miyazaki, Japan.	DIKTI	175
2017	Assessment of Hydrological Status of Giam Siak Kecil-Bukit Batu Landscape, Bengkalis Regency. (in Bahasa Indonesia)	WWF	239.2
2017	Pilot Project of Canal Blocking for Hydrological Restoration in Peat Hydrological Unit of Pulau Tebing Tinggi. Principal Researcher	BRG (Badan Restorasi Gambut)	700
2017	Development of a multidisciplinary method for mapping spatial extent and C-content of tropical ombrotrophic peatlands, GIS Specialist, Collaboration with NARIC Hungaria, TU WIEN University. Principal Researcher	Packard Foundation, Univ. Riau	130
2017	Provision of a method to control collapse of coastal tropical peatland by applying groundwater management and tidaflat formation mechanism, Hydrologist, Collaboration with Yamaguchi University, Japan.	JSPS, Japan (KAKEN)	1807 (JPY13,900,00)
2017	Ground Water Level Prediction in Tanjung Leban Tropical Peatland	-	-
2017	Assessment of Drought Level by Using The Standardized Precipitation Index (SPI) and TRMM Satellite Data for Peat Fire Risk Evaluation, Principal Researcher.	-	-
2017	Simulation of Flood Disaster Mitigation Alternatives in Rokan Hulu River Basin Based on TRMM Satellite Data, Hydraulic Engineer.	DIKTI	64.5
2016	Mitigation Strategy to Shoreline Change along Coast of Riau Province Using Mathematical Modeling based on GIS and Remote Sensing (Stage III), Principal Researcher.	DIKTI	100
2016	Study on Portable Canal Block for hydrological Restoration of Tropical Peatland, Principal Researcher.	DIKTI	40

2016	Peat Restoration in Tebing Tinggi Sub-District, Meranti Regency based on Participatory Approach, Hydrologist.	UNDP	300
2015	Hydrologic and Hydraulic Modeling Using Satelite Data for Flood Disaster Mitigation in Rokan Hulu Watershed	DIKTI	58
2015	Mitigation Strategy to Shoreline Change along Coast of Riau Province Using Mathematical Modeling based on GIS and Remote Sensing (Stage II)	DIKTI	100
2015	Peat-Coast Erosion by the Degradation of the Mangroves and Formation Processes of the Newly Established Substitute Tidal Flat Ecosystem (Second Batch, Collaboration With Yamaguchi University)	JSPS, Japan (KAKEN)	552
2014	Study on Ground Water Conservation Affected by Oil Palm Plantation in Riau Province	Balitbang Provinsi Riau	200
2014	Mitigation Strategy to Shoreline Change along Coast of Riau Province Using Mathematical Modeling based on GIS and Remote Sensing (Stage I)	DIKTI	75
2014	Peat-Coast Erosion by the Degradation of the Mangroves and Formation Processes of the Newly Established Substitute Tidal Flat Ecosystem (First Batch, Collaboration With Yamaguchi University)	JSPS, Japan (KAKEN)	552
2014	Application of Hydrologic Modeling Using Satelite Data for Flood Prediction	-	17
2013	Shoreline Change Analysis Using Remote Sensing Data	-	15
2013	Sensitivity of Hydrologic Parameters in Calibration of Hydrologic Model Using Satelite Data	-	10
2012	Hydrologic Modeling Using Satellite Data	-	7
2012	Study on Escape Building Plan for Evacuation Against Tsunami Disaster in Cilacap City	-	15

Community Services

Year	Activity Title	Budget	
		Source	Amount (milion IDR)
2018-2019	Partisipasi anggota pokdarwis dalam program desa binaan untuk pengembangan ekowisata terintegrasi di Kampung Rawa Mekar Jaya Kecamatan Sungai Apit Kabupaten Siak	UNRI	50
2017	Application of Rapid Sand Filter for Peat Water Treatment	DIKTI	50
2017	Construction of Canal Blocks for Hydrological Restoration in Kepulauan Meranti Regency	BRG	150
2017	Construction of Canal Blocks for Hydrological Restoration at Giam Siak Kecil-Bukit Batu Landscape, Bengkalis Regency.	WWF	200
2016	Construction of Canal Blocks for Hydrological Restoration at Tebing Tinggi Sub-District	UNDP	140

Scientific Publications

- 1) **Sutikno, S.**, Rinaldi, Putri, R.A, Khotimah, G.K (in press), Study on The Impact of Canal Blocking on Groundwater Fluctuation for Tropical Peatland Restoration, IOP Conf. Series: Materials Science and Engineering.
- 2) **S. Sutikno**, A. Sandhyavitri, A. Syahza, H. Widodo, and T. H. Seto (2020) Application of weather modification technology for peatlands fires mitigation in Riau, Indonesia. In: Proceedings of International Symposium on Advances in Mechanical Engineering (ISAME): Quality in Research 2019.
- 3) **Sutikno, S.**, Rinaldi, Saputra, E., Kusairi, M., Saharjo, B.H., Putra, E.I., (in press), Water Management for Hydrological Restoration and Fire Prevention in Tropical Peatland, IOP Conf. Series: Materials Science and Engineering.

- 4) Pratama, H., **Sutikno, S.**, Yusa, M., Modeling of Groundwater Level Fluctuation in The Tropical Peatland Area of Riau, Indonesia, IOP Conf. Series: Materials Science and Engineering, 796:012042.
- 5) **Sutikno, S.**, Ramawilis, R.D., Hutapea, F.A., Rinaldi, Yamamoto, K., Application of paper disc velocimeter for groundwater flow measurement in tropical peatland, IOP Conf. Series: Materials Science and Engineering, 796:012042.
- 6) Putra, E. I., M. A. Cochrane, B. H. Saharjo, L. Graham, A. Thomas, G. Applegate, A. Saad, E. Setianto, **S. Sutikno**, and A. Prayitno. 2019. “Developing Better Understanding on Tropical Peat Fire Occurrences and Dynamics.” IOP Conference Series: Earth and Environmental Science 394 (1). <https://doi.org/10.1088/1755-1315/394/1/012044>
- 7) Silviana, SH., Saharho, BH., **Sutikno, S.**, Fire risk analysis based on groundwater level in rewetting peatland, Sungaitohor village, kepulauan Meranti district, Riau province, IOP Conf. Series: Materials Science and Engineering, 796:012042.
- 8) **Sutikno, S.**, Nasrul, B., Gunawan, H., Jayadi, R., Rinaldi, Saputra, E., & Yamamoto, K. (2019). The effectiveness of canal blocking for hydrological restoration in tropical peatland. MATEC Web of Conferences, 6003(276), 1–7.

- 9) Qomar, Nurul, Ahmad Muhammad, Idwar Idwar, **Sigit Sutikno**, Zuli Laili Isnaini, Ahmad Nawawi, and Romie Jhonnerie. 2019. "Partisipasi Anggota Pokdarwis Dalam Program Desa Binaan Untuk Pengembangan Ekowisata Terintegrasi Di Kampung Rawa Mekar Jaya Kecamatan Sungai Apit Kabupaten Siak." Unri Conference Series: Community Engagement. <https://doi.org/10.31258/unricsce.1.670-677>
- 10) Olivia, M., I.R. Sitompul, E. Saputra, **S. Sutikno**, and K. Yamamoto. 2019. "Effectiveness of Using Pozzolanic Material for Concrete Canal Blocks in Tropical Peatland." In IOP Conference Series: Materials Science and Engineering. Vol. 615. <https://doi.org/10.1088/1757-899X/615/1/012111>
- 11) Nurhuda, Ahmad, Mubarak, and **Sigit Sutikno**. 2019. "Analysis of Coastal Vulnerability of Rangsang Island Due to Climate Changes." Journal of Degraded and Mining Lands Management. <https://doi.org/10.15243/jdmlm.2019.064.1907>
- 12) **Sutikno, S.**, Sandhyavitri, A., Haidar, M., & Yamamoto, K. (2016). Shoreline Change Analysis of Peat Soil Beach in Bengkalis Island Based on GIS and RS. International Journal of Environmental Science and Development (IJESD), 7(12).
- 13) **Sutikno, S.**, Fatnanta, F., & Kusnadi, A. R. I. (2015). Integrated Remote Sensing and GIS for Calculating Shoreline Change in Rokan Estuary. In The 1st International Conference on Science and Engineering.
- 14) **Sutikno, S.**, Murakami, K., Handoyo, D. P., & Fauzi, M. (2015). Calibration of Numerical Model for Shoreline Change Prediction Using Satellite Imagery Data. Makara Journal of Technology, 19(3), 113–119. <https://doi.org/10.7454/mst.v19i3.3042>
- 15) **Sutikno, S.**, & Murakami, K. (2015). Application of Spatial and Network Analysis to Evaluate Shelter Plan for Tsunami Evacuation. Civil Engineering Dimension, 17(2), 88–94. <https://doi.org/10.9744/ced.17.2.88-94>
- 16) **Sutikno, S.**, Handayani, Y. L., Fauzi, M., & Kurnia, A. (2017). Hydrologic modelling using TRMM-based rainfall products for flood analysis. MATEC Web of Conferences, 05015, 2–6.
- 17) **Sutikno, S.**, & Merian, R. D. (2017). Numerical model for pollutant dispersion in the Dumai estuary. MATEC Web of Conferences, 04001, 1–6.
- 18) **Sutikno, S.**, Handoyo, D. P., Fauzi, M., & Murakami, K. (2016, January 11). MODEL NUMERIK UNTUK SIMULASI ALTERNATIF PERLINDUNGAN PANTAI BERBASIS SISTEM INFORMASI GEOGRAFIS. Proceedings ACES (Annual Civil Engineering Seminar). Retrieved from <http://ejournal.unri.ac.id/index.php/ACES/article/view/2974>
- 19) **Sutikno, S.**, Afdeni, S., Rinaldi, & Handayani, Y.H. (in press). Analysis of Tropical Peatland Fire Risk Using Drought Standardized Precipitation Index Method and TRMM Rainfall Data, IOP Conf. Series: Materials Science and Engineering
- 20) **Sutikno, S.**, Hidayati, N., Rinaldi, & Nasrul, B. (in press). Classification of Tropical Peatland Degradation Using Remote Sensing and GIS Technique, IOP Conf. Series: Materials Science and Engineering
- 21) Fauzi, M., Suprayogi, I., **Sutikno, S.**, Sandhyavitri, A., & Riyawan, E. (2017). Development of erosion risk map using fuzzy logic approach. MATEC Web of Conferences, 04021, 2–6.
- 22) Illés, G., **Sutikno, S.**, Szatmári, G., Sandhyavitri, A., Pásztor, L., & Kristijono, A. (2019). Facing the peat CO₂ threat : digital mapping of Indonesian peatlands — a proposed methodology and its application. Journal of Soils and Sediments, 1(1), 12.
- 23) Kagawa, H., Yamamoto, K., Haidar, M., Kanno, A., **Sutikno, S.**, Suzuki, M., ... Bashir, N. (2017). Present Condition of The Coastal Erosion in The Island of Riau Province, Indonesia. Journal of Environmental Engineering Research, 54(7).

- 24) Mubarak, M., **Sutikno, S.**, Defarian, A., Murakami, K., & Yamamoto, K. (2019). Numerical simulation of detached breakwaters for mangrove restoration in Bengkalis Island , Indonesia. In MATEC Web of Conferences ICAnCEE 2018 (Vol. 276, pp. 1–8).
- 25) Nurhuda, A., Mubarak, M., & **Sutikno, S.** (2019). Analysis of coastal vulnerability of Rangsang Island due to climate changes. *Journal of Degraded and Mining Lands Management*, 6(4), 1907–1914. <https://doi.org/10.15243/jdmlm.2019.064.1907>
- 26) Dohong, A., Cassiophea, L., **Sutikno, S.**, Triadi, B. L., Wirada, F., Rengganis, P., & Lubendik Sigalingging. (2017). Modul pelatihan Pembangunan Infrastruktur Pembasahan Gambut Sekat Kanal Berbasis Masyarakat. Jakarta: Kedeputian Bidang Konstruksi, Operasi dan Pemeliharaan Badan Restorasi Gambut (BRG), Republik Indonesia.
- 27) Sandhyavitri, Ari, Perdana, M. A., **Sutikno, S.**, & Widodo, F. H. (2018). The roles of weather modification technology in mitigation of the peat fires during a period of dry season in Bengkalis, Indonesia. In TALENTA-CEST, IOP Conf. Series: Materials Science and Engineering (pp. 0–9). IOP Publishing. <https://doi.org/10.1088/1757-899X/309/1/012016>
- 28) Sandhyavitri, Ari, Talha, I., Fauzi, M., & **Sutikno, S.** (2017). Managing construction risks of the toll road project in Indonesia. *International Journal on Advanced Science, Engineering and Information Technology*, 7(5), 1934–1942. <https://doi.org/10.18517/ijaseit.7.5.1349>
- 29) Sandyavitri, A., Fauzi, M., & **Sutikno, S.** (2016). Prioritization of Irrigation Areas Based on the Analytical Hierarchy Process (AHP) at the Rokan Hulu Regency, Riau, Indonesia. *International Journal of Engineering and Science Applications*, 3(1), 47–60.
- 30) Koichi Yamamoto, Noerdin Basir, **Sigit Sutikno**, Ariyo Kanno, Hiroki Kagawa, Motoyuki Suzuki and Atsushi Koyama, Tropical peat debris storage in the tidal flat in northern part of the Bengkalis island, Indonesia. In MATEC Web of Conferences (Vol. 276, p. 06002). EDP Sciences, 2019.
- 31) Yusa, M., Sandyavitri, A., & **Sutikno, S.** (2019). Application of electrical resistivity test to estimate carbon storage of tropical peat deposit (Case study of Bengkalis island). MATEC Web of Conferences. <https://doi.org/10.1051/matecconf/201927605004>
- 32) Silviana, S., Saharjo, B.H., **Sutikno, S.**, Effect of wildfires on tropical peatland vegetation in Meranti Islands District, Riau Province, Indonesia, *Biodiversitas Journal of Biological Biodiversity*, Vol. 20 No. 10 (2019), <https://doi.org/10.13057/biodiv/d201039>.
- 33) Alfarisyi, Hafiz, and **Sigit Sutikno**. 2020. “Analisis Pembasahan Lahan Gambut Akibat Pembangunan Sekat Kanal (Studi Kasus: Desa Lukun, Kabupaten Kepulauan Meranti).” *JURNAL TEKNIK* 14 (1): 45–52.
- 34) Fadillah, Aris, Ari Sandhyavitri, and **Sigit Sutikno**. 2019. “MODEL HIDROLOGI UNTUK PREDIKSI ELEVASI MUKA AIR TANAH PADA GAMBUT TROPIS SEBAGAI UPAYA MITIGASI KEBAKARAN DI KABUPATEN BENGKALIS.” *JURNAL SAINSTEK* 7 (2): 98–103.
- 35) Frisnel, Wahyu, **Sigit Sutikno**, and Muhamad Yusa. 2019. “PENGGUNAAN ERT (ELECTRICAL RESISTIVITY TOMOGRAPHY) UNTUK ANALISIS KARAKTERISTIK GAMBUT DAN CADANGAN KARBON DI PULAU BENGKALIS.” *Aptek* 11 (2): 117–23.
- 36) Putra, Niko Erdi, **Sigit Sutikno**, and Manyuk Fauzi. 2019. “MODEL PREDIKSI KEDALAMAN MUKA AIR TANAH PADA LAHAN GAMBUT TROPIS.” *Aptek*

- 11 (2): 105–16.
- 37) Rizki Rianda Putra, Manyuk Fauzi*, and **Sigit Sutikno**. 2019. “Model Hidrolika Untuk Simulasi Profil Muka Air Pada Sungai Sibinail Kabupaten Pasaman.” JURNAL TEKNIK. <https://doi.org/10.31849/teknik.v13i1.2983>.
- 38) Safitri, Widya Ayu, and **Sigit Sutikno**. 2020. “Analisis Keseimbangan Air Untuk Optimasi Pengembangan Komoditi Ramah Gambut.” JURNAL TEKNIK 14 (1): 53–60.

Oral Presentations

Title	Conference / Event	Place / Year
Karakteristik KARHUTLA di Provinsi Riau dan Upaya Pencegahannya	Pembahasan Kajian Prediksi Titik Api (Hotspots) 2020 di Provinsi Riau, POLDA, Riau	Pekanbaru, 14 Feb 2020
Pengelolaan Hidrologi & Teknik Pembasahan. Di KHG Siak – Kampar dan Pulau Tebing Tinggi, Riau. Kebutuhan Restorasi KHG Terintegrasi	Pertemian Ilmiah Restorasi Gambut, BRG	Jakarta, 26 November 2019
Karakteristik Hidrologi dan Pengelolaan SDA Pada KHG Kepulauan, Implikasi Terhadap Percepatan Rewetting dan Tata Kelola Air	Ekspose Capaian Riset Aksi Tahun 2019, BRG	Jakarta, 3~4 Desember 2019
Karakteristik Hidrologi Gambut Terdegradasi dan Pilihan Realistik Pengelolaan Tata Airnya untuk Konservasi dan Pembasahan Gambut Case di Desa Rimbo Panjang	Penyusunan Konsep Aksi Gambut Rimbo Panjang, BRG	Pekanbaru, 19-20 November 2019
Physical and Numerical Hydrodynamic Modeling of Peat Soil Beach	Seminar Hasil Output Penelitian Tahun 2019, DRPM	Bogor, 22-23 November 2019
Karakteristik KARHUTLA di Provinsi Riau dan Upaya Pencegahannya	Rapat Evaluasi Kebakaran Hutan Lahan 2019 dan Kesiapsiagaan 2020	Pekanbaru, 5 November 2019
GAMBARAN UMUM KARHUTLA DI PROVINSI RIAU 2019	Talk Show “Bencana Asap, Akankah Dapat Diatasi?” Sempena Milad Universitas Riau Ke-57 Dan Fakultas Kedokteran Universitas Riau Ke 18	Pekanbaru, 2 November 2019
RESTORASI HIDROLOGI BERBASIS MASYARAKAT KHG PULAU TEBING TINGGI	Pembekalan Peneliti Muda Restorasi Gambut Tropika (PMRGT) 2019	Pekanbaru, 31 Oktober 2019
Ancaman Kehancuran Pulau Pulau Gambut Sumatera, Studi Kasus Pulau Bengkalis	Workshop on the Application of Radar for study Atmospheric Dynamic and	Bengkalis, 17 Oktober 2019

Title	Conference / Event	Place / Year
	Smoke Dispersion in Bengkalis and Surrounding Areas	
Modeling of Groundwater Level Fluctuation in The Tropical Peatland Area of Riau, Indonesia	Annual International Conference Science and Engineering	Banda Aceh, 18-19 September 2019
PERAN PSB UNRI DALAM PENCEGAHAN DAN PENANGGULANGAN KEBAKARAN LAHAN GAMBUT	International Workshop and Training on Peat Fire Prevention	Pekanbaru, 2-5 September 2019
Analysis of Tropical Peatland Fire Risk Using Drought Standardized Precipitation Index Method and TRMM Rainfall Data	The 4th International Tropical Renewable Energy Conference (i-TREC)	Bali, August 14-16, 2019
Classification of Tropical Peatland Degradation Using Remote Sensing and GIS Technique	The 4th International Tropical Renewable Energy Conference (i-TREC)	Bali, August 14-16, 2019
Application of Weather Modification Technology for Peatlands Fires Mitigation in Riau, Indonesia	16th International Conference on Quality in Research (QiR) 2019	Padang, 22-24 Juli 2019
Intervensi Infrastruktur Pembasahan Gambut di Lahan TORA	Pertemuan Penyiapan Pilot Uji Penanaman Komoditi Ramah Gambut Proram TORA	Kabupaten Siak, 9 Juli 2019
Pencegahan dan Penanggulangan Karhutla Berbasis Masyarakat Restorasi Gambut	Pembekalan Satuan Tugas Pencegahan dan Penanggulangan Kebakaran Hutan dan Lahan di Provinsi Riau dan Kalimantan Barat, BNBP	Pekanbaru, 20 Juni 2019
Optimalisasi Pemanfaatan Data dan Informasi Sipalaga Dalam Deteksi Daerah Rawan Kebakaran di Provinsi Riau	Pertemuan Dimulainya Operasi Cepat Pembasahan Gambut Dalam Rangka Pencegahan Kebakaran Periode Juni-September 2019 di Provinsi Riau, BRG	Pekanbaru, 21 Mei 2019
Ancaman Kehancuran Pulau Pulau Gambut Sumatera Refleksi dari Bengkalis dan Kepulauan Meranti, Riau	PSB Peat Circle	Pekanbaru, 16 April 2019
IKLIM MIKRO DAERAH PESISIR RIAU DAN KAITANNYA DENGAN KEBAKARAN LAHAN GAMBUT Penyiapan Gambut Tetap Basah Dalam Upaya Pencegahan Kebakaran	Pencanangan Program dan Pendayagunaan Sumberdaya Restorasi Gambut Serta Sinergi Multi Pihak Dalam Upaya Pencegahan Karlutha Gambut. Periode Mei-September di Provinsi Riau 2019	Pekanbaru, 26 April 2019
Water Management for Hydrological Restoration In Tropical Peatland Case Studies from Peatland Hydrological Unit in Riau	The 3rd Anniversary of Indonesia-Kyoto Collaborative Agreements for Peatland Restoration in Indonesia	Kyoto, 22-23 March 2019

Title	Conference / Event	Place / Year
MODEL TATA AIR DAN EFEKTIVITAS SEKAT KANAL UNTUK PEMBASAHAH LAHAN GAMBUT	Diskusi Pencermatan dan Implementasi Tindak Lanjut Hasil Riset Efektifitas Sekat Kanal untuk Percepatan Pembasahan Gambut pada Kesatuan Hidrologisnya	Palangkaraya, 28 Februari 2019
Lesson Learned from Hydrological Restoration of Peatland in Kepulauan Meranti Regency (in Bahasa Indonesia).	Peatland Restoration Seminar TETIGA	Selat Panjang, 2018
Peatland and Water Conservation (in Bahasa Indonesia).	World Water Day Seminar XXVI	Pekanbaru, 2018
Investigation of Peatland Fire at Lukun Village (in Bahasa Indonesia).	Seminar of Peatland Fire and Preparadness in Riau	Pekanbaru, Februari 2018
Rainfall-Runoff Hydrologic Modeling Using Satellite Data (in Bahasa Indonesia)	National Seminar of Civil Engineering X-2014, ITS	Surabaya, 5 Feb 2014
Application of Agent-Based Model for Evaluating Tsunami Evacuation Plan in Local Fishing Village	International Sessions in Coastal Engineering Conference, JSCE	Juli 2011, Iwate, Japan
Evaluation of Tsunami Evacuation Risks in Padang City -Case Study on 2009 West Sumatera Earthquake-	Annual Conference of Civil Engineering in the Ocean, JSCE	Juni 2010 Kagoshima, Japan
Study on Tsunami Evacuation Measure Considering Risks on Evacuation Network	Annual Conference of Civil Engineering in the Ocean, JSCE	Juni 2009 Yokohama, Japan
Evaluation of Public Shelter Plan for tsunami Evacuation in Padang City after 2009 West Sumatera Earthquake	JSCE West Branch Annual Conference	Maret 2011, Kitakyushu, Japan
Evacuation Risks Analysis against Tsunami Hazard Base on Spatial and Network Analysis on GIS	The Twentieth International OFFSHORE AND POLAR ENGINEERING CONFERENCE	Juni 2010 Beijing, China
Determination of Temporal Shelters Base on Analysis of Service Area in Padang City, Indonesia	Western Regional Division Report of Natural Disaster Research Council	Pebruari 2010 Fukuoka, Japan
GIS Based Temporal Sheltering Determination against Tsunami Hazard in Pacitan City, East Java	The 28th Symposium on Japan Society for Natural Disaster Science	September 2009 Kyoto, Japan

Title	Conference / Event	Place / Year
Evaluation of Service Area against Tsunami Hazard with Using Network Analysis on GIS	JSCE West Branch Annual Meeting	Maret 2009 Fukuoka, Japan
Analysis of Basic Characteristic, Peatland Hydrology and Water Management of Pulau Tebing Tinggi Peatland Hydrological Unit (in Bahasa Indonesia)	BRG National Seminar	Jakarta December 2017
Disaster Mitigation in Pekanbaru City (in Bahasa Indonesia).	Disaster Preparadness Workshop	Pekanbaru, 2017
The Methods of Hydrological Restoration at Various of Peatland Degradation (in Bahasa Indonesia).	Japan Partnership Program for Peatland Restoration, Kick of Meeting	Pekanbaru, 2017
Hydrologic Mechanism and Ground Water Monitoring in the Peatland for Disaster Risk Reduction (in Bahasa Indonesia).	Capacity Building Workshop for Peatland Restoration and Disaster Risk Reduction in Peatland	Pekanbaru, 2017
The Characteristic of Giam Siak Peatland Hydrological Unit (in Bahasa Indonesia).	Seminar of Peatland Restoration and Fire Prevention	Pekanbaru, 2017
Coastal Peat Mass Movement and Its Effect on The Terrestrial Carbon Discharge to Ocean in Bengkalis Island, Indonesia	The 15th INTERNATIONAL PEAT CONGRESS	Malaysia 2016
Shoreline Change Analysis of Peat Soil Beach in Bengkalis Island Based on GIS and RS	The 2016 3rd International Conference on Coastal and Ocean Engineering (ICCOE 2016)	Tokyo, Japan, 2016
Hydrologic Modelling Using TRMM-based Rainfall Products for Flood Analysis.	Sriwijaya International Conference on Engineering, Science and Technology	Bangka, 2016
Integrated Remote Sensing and GIS for Calculating Shoreline Change in Rokan Estuary	The 1st International Conference on Science and Engineering,	Pekanbaru, Indonesia, 2015
Calibration of Numerical Model for Shoreline Change Prediction Using Satellite Imagery Data	14th International Conference on Quality in Research (QiR) 2015	Lombok, Indonesia, 2015

Title	Conference / Event	Place / Year
Rate of Abrasion Analysis of Bengkalis Coast Using Satellite Data (in Bahasa Indonesia)	Annual Conference of Indonesian Hydraulic Engineer Association	Padang, 22-24 August 2014

Editor/Reviewer

- 2015 - now **Reviewer** International Journal of Civil Engineering. ISSN: 1735-0522
e-ISSN: 2383-3874
- 2015 - now **Reviewer** INDONESIAN JOURNAL OF MARINE SCIENCE
p-ISSN 0853-7291, e-ISSN 2405-7598
- 2007 - now **Reviewer** Jurnal Sains dan Teknologi
- 2017 - now **Reviewer** Rekayasa Sipil

Books

Pembelajaran dari Pencegahan Kebakaran dan Restorasi Gambut Berbasis Masyarakat (Lessons learned from Community-Based Peat Prevention and Restoration), CIFOR, 2020.

Hydrologic Assessment of Giam Siak Kecil Landscape, Bengkalis Regency, Riau Province (in Bahasa Indonesia) .2018. 63 p. UNRI Press

Guide Book for Water Management in Giam Siak Kecil Landscape, Bengkalis Regency, Riau Province (in Bahasa Indonesia). 2018. 65 p. UNRI Press

Guide Book for Construction of Peat Rewetting Infrastructures, Canal Block Using Participatory Approach. (in Bahasa Indonesia). 2017. 88 p. Kedeputian Bidang Konstruksi, Operasi dan Pemeliharaan, Badan Restorasi Gambut (BRG), Republik Indonesia.

Urban Drainage.(in Bahasa Indonesia). 2007. 89 p. Pusat Pengembangan Pendidikan Universitas Riau

Profesional Experiences

Kubu, Kab. Pelelawan, Provinsi Riau	
Team Leader , Penyusunan SID-DED Infrastruktur Pembasahan Gambut KHG S. Kiyap-S.	2019
Kerumutan, Kab. Pelelawan, Provinsi Riau	
Team Leader , Study on Disaster Risk and Disaster Preparadness Plan in Rokan Hulu Regency	2015
Team Leader , Detail Engineering Design (DED) of Mempura Weir for Tourism Area	2014
GIS Specialist and Water Resources . The Master Plan on Water Supply in Pekanbaru City, Indonesia	2014
Port Engineer , Review Design of Fish Port in Teluk Dalam, Nias Selatan Regency	2014

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Team Leader , Detail Design of Drainage System in Bandar Raya Payung Sekaki Area, Payung Sekaki Sub-District	2014
Team Leader , Development of River Data Base in Pekanbaru City	2013
Team Leader , DED Flood Mitigation in Dorak Area, Selat Panjang Regency	2012
Port Engineer , SID (Survey Investigation dan Design) and DED Multy Purpose Port in Dumai City	2012
Team Leader , DED Drainage System in Sungai Apit City, Sungai Apit Sub-District	2008
Team Leader , SID of Rivetment in Tebing Tinggi Barat Sub-District, Bengkalis Regency	2008
Team Leader , Detail Engineering Design of Retaining Wall Structures (Sheet Pile) in Upstream Indragiri River	2007

Instructor of Trainings

Training Title	Instansi	Year
Training of Geographic Information System for Facilitator	World Research Institute	21-27 March 2018
Training for Construction of Canal Block for Hydrological Peat Restoration for Village Community in Kepulauan Meranti Regency	Bappeda Kabupaten Kepulauan Meranti	21-23 November 2016
Geographic Information System Training for Government Official	Bappeda Kabupaten Kepulauan Meranti	21-27 April 2013
Technical Training of GIS for Government Official of Pekanbaru City	Dinas Pekerjaan Umum Kota Pekanbaru	18-20 Juni 2014
Geographic Information System Training for Student	PPLH UNRI	13-14 November 2014
Training for Data Processing and Geographic Information System for Bengkalis Regency	Bappeda Kabupaten Bengkalis	1-3 Desember 2014

Awards

Awards	Organization	Place, Year
Best presenter award	DIKTI	Bogor, 2019
Best presenter award	Annual International conference	Banda Aceh, 2019

Directorate General of Higher Education Scholarship	Ministry of Education and Culture	University of Miyazaki, 2008-2012
Best Paper Award	Indonesian Hydraulic Engineer Association	Padang, 22-24 August 2014
Best Lecturer Award	Faculty of Engineering, UR	UR, 2014
Engineering Education Development Program-Asian Bank Development Scholarships	Asian Development Bank	Gadjah Mada University, 1998-2000
3 rd Best Lecturer Award	University of Riau	UR, 2007

Pekanbaru, 14 Mei 2020

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