TREPSEA INTERNATIONAL CONFERENCE 2021

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1

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Ikatan Ahli Geologi Indonesia



Perhimpunan **Ekonomi Pertanian** Indonesia (PERHEPI)



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6. Poster Presentations

148

TREPSEA 2021 Programs and Schedules

	Day 1 - 16 September 2021												
start	end	Program (Zoom1)	start	end	Program (Zoom2)								
9:00	9:20	Opening Ceremony (*ONLY at Zoom 1)											
9:30	11:00	Keynotes (*ONLY at Zoom 1) by Professor Bambang S Brodjonegoro, Dr. Alue Dohong and Professor Hein Mallee											
11:10	12:10	Plenary Session 1: Heavy Metal Problem and Environment Issue & Public Health (*ONLY at Zoom 1) (Dr. Nurfitri Abdul Gafur, Dr. Sri Manovita Pateda and Professor Masayuki Sakakibara)											
12:10	13:00		Lunch	Break									
13:00	14:50	Session 1: Environmental Issues and Public Health - QA for Environmental Issues and Public Health	13:00	14:40	Session 7: Heavy Metal Problems and Renewable Energy - QA for Heavy Metal Problems and Renewable Energy								
			14:40	15:00	Break								
14:50	15:10	Break	15:00	15:25	Session 5: Resources Management and Global Value Chain - QA for Resources Management and Global Value Chain								
			15:25	15:40	Break								
15:10	16:05	Session 1: Environmental Issues and Public Health - QA for Environmental Issues and Public Health	15:40	15:50	Session 6: Legal Issues and Business Ethics in Resource Management - QA for Legal Issues and Business Ethics in Resource Management								
		Day 2 - 17 Se	ptembe	r 2021									
start	end	Program (Zoom1)	start	end	Program (Zoom2)								
8:30	10:00	Ecological Risks and Food Security and Sustaina	-	ricultu									
10:15	11:05	Session 2: Ecological Risks and Food Security - QA for Ecological Risk & Food Security	10:15	11:35	Session 4: Sustainable Agriculture and Equitable Development - QA for Sustainable Agriculture and Equitable Development								
11:05	11:20	Break											
11:20	11:40	Session 8: Urban and Community Development - QA for Urban Management and Community Development	11:35	13:30	Lunch Break								
11:40	13:30	Lunch Break											
13:30	13:45	Session 8: Urban and Community Development - QA for Urban Management and Community Development	13:30	13:55	Session 4: Sustainable Agriculture and Equitable Development - QA for Sustainable Agriculture and Equitable Development								
13:45	14:30	Break	13:55	14:30	Break								
14.30	16.00	Poster Session via Spatial Chat											

14:30	16:00	Poster Session via Spatial Chat									
	Day 3 - 18 September 2021										
start	rt end Program (Zoom1) start end Program (Zoom2)										
8:30	8:30 10:00 Plenary Session 3: Disaster Risks Reduction and Disaster Management and Sustainable Development Goals (SDGs) (*ONLY at Zoom 1 Professor Atsushi Yoshimoto, Dr. Irwan Meilano, Professor Rudy and Dr. Yayu Indriati Arifin										
10:15	11:15	Session3: Disaster Risks Reduction and Disaster Management - QA for Disaster Risks Reduction and Disaster Management	10:15	11:55	Session 9: Sustainable Development Goals (SDGs) - QA for Sustainable Development Goals						
11:15	13:00	Lunch Break	11:55	13:00	Lunch Break						
13:00	14:30	Workshop 1 Transdisciplinary Approach to Reducing the ASGM related Problems Organized by RIHN	13:00	14:30	Workshop 2 Sustainability Certification of Agricultural System Organized by UNIRA						
14:40	15:30	Discussion (*ONLY at Zoom 1)									
15:30	16:00	Closing ceremony (*ONLY at Zoom 1)									

Day 1st (16 September 2021)

start	end		Program (Zoom1)	start	end		Program (Zoom2)					
9:00	9:20		Openir	ng Cerem	g Ceremony (*ONLY Zoom 1)							
9:30	11:00		(Professor Bambang S Brodjonegoro, D	Keynote talk Dr. Siti Nurbaya Bakar, Professor Hein Mallee) (*ONLY Zoom 1)								
11:10	12:10		Plenary session 1 Heavy Metal Problem and Environment Issue & Public Health (Dr. Nurfitri Abdul Gafur, dr. Sri Manovita Pateda, M.Kes, and Professor Masayuki Sakakibara) (*ONLY Zoom 1)									
12:10	13:00		Lunch Break									
			<mark>Issues and Public Health</mark> ii, Universitas Muslim Indonesia				oblems and Renewable Energy arni , Forest product Research and Development Center					
12.00	12.20	0-3	The Effect of Housewife Assistance on Dengue Haemorrahagic Fever Management in the Work Area of the Pampang Community Health Center Makassar City	12.00	12.20	0-102	Heavy Metal Contamination of River Sediment at ASGM Area in Gorontalo Province, Indonesia					
13:00	13:30		Ilham Syam , Nurleli and Nurul Sekolah Tinggi Ilmu Kesehatan Makassar	13:00	13:30		Basir ¹ , Masayuki Sakakibara ² , Sri Manovita Pateda ³ and Koichiro Sera ⁴ ¹ STIK Tamalatea Makassar, ² Research Institute for Humanity and Nature, ³ Gorontalo State University, ⁴ Iwate Medical University					
		0-4	Effects of Mentoring Housewives Assistance on Ability toSort Waste in Sub-District of Panakukkang Makassar			O-109	Atmospheric Mercury Contamination on the Tree Bark Due to the Artisanal Small Scale Gold Mining (ASGM) Activity in the Bunut Seberang Village, Pesawaran District, Lampung Province Indonesia					
			Nurleli, Sri Syatriani and Sri Fauziah Sekolah Tinggi Ilmu Kesehatan Makassar				Azhary Taufiq ¹ , Melya Riniarti ¹ , Hendra Prasetia ¹ , Slamet Budi Yuwono ¹ , Endang Linirin ¹ and Masayuki Sakakibara ^{2,3} ¹ University of Lampung, ² Research Institute for Humanity and Nature, ³ Ehime University					
		0-5	Hazard Risk Identification from Used Masks			O-108	Analysis of Atmospheric Mercury Concentrations in Tree Bark of Multi Purpose Tree Species (MPTS) in Bunut Seberang Village, Lampung Province, Indonesia					
			Meithyra Melviana Simatupang ¹ , Erna Veronika ² ¹ Universitas Respati Indonesia, ² Universitas Esa Unggul				Tedy Rendra ¹ , Melya Riniarti ¹ , Slamet Budi Yuwono ¹ , Hendra Prasetia ¹ , Endang Linirian Widiastuti ¹ and Masayuki Sakakibara ^{2,3} ¹ University of Lampung, ² Research Institute for Humanity and Nature, ³ Ehime University					
		O-6	Implementation of Health Protocols to Reduce COVID-19 Spread: Study at Terminal Transit in Tana Toraja District, South Sulawesi			O-103	A preliminary study on mercury contamination in plants from small-scale artisanal gold mining area in Mandalay Region, Myanmar					
			Sri Syatriani and Ilham Panggula Sekolah Tinggi Ilmu Kesehatan Makassar				Xiaoxu Kuang ¹ , Win Thiri Kyaw ¹ , Pyae Sone Soe ² , Hnin Ei Khin ³ , Nan Myat Pyae Zaw ⁴ , Aye Myat Thandar ⁴ and Masayuki Sakakibara ^{1,5} ¹ Research Institute for Humanity and Nature, ² Prefectural University of Kumamoto, ³ Environmental Conservation Department (Mandalay Region), ⁴ Environmental Conservation Department (Head Office), ³ Ehime University					
		0-9	Evaluation of the Remote Health Survey Mode Conducted for the Artisanal and Small-scale Gold Mining (ASGM) Community in Mandalay Region, Myanmar During COVID-19 Pandemic			O-106	A Complex Land Use Matrix, the Case of Ponce-Enríquez in Ecuador: ASGM, Agricultural Plantations and Local Forest remnants					
			Win Thiri Kyaw ¹ , Yee Mon Myint ² , Xiaoxu Kuang ¹ and Masayuki Sakakibara ^{1,3} ¹ Research Institute for Humanity and Nature, ² Magway General Hospital, ³ Ehime University				José Luis Rivera, Ximena Diaz, Carolina Bernal, Carolina Ramos and Jeny Ruales 1 Escuela Politécnica Nacional					
		0-16	Knowledge and Attitude of Pregnant Women Towards COVID-19 Prevention in Makassar City, Indonesia			0-105	Purification of selenium-containing leachate in wastewater tanks at a tunnel construction site					
			Andi Sani Silwanah ¹ , Muhammad Sahlan Zamaa ¹ , Hasriani I and Rezky Aulia Yusaf ² ¹ Sekolah Tinggi Ilmu Kesehatan Makassar, ² Universitas Muslim Indonesia				Kenji OKAZAKI ¹ , Akihiko OBINATA ¹ , Toshiyuki KURAHASHI ¹ and Masayuki SAKAKIBARA ²⁻³ ¹ Civil Engineering Research Institute, ² Research Institute for Humanity and Nature, ³ Ehima University					

start	end		Program (Zoom1)	start	end		Program (Zoom2)	
			Issues and Public Health iri Kyaw, Research Institute for Humanity and Nature				oblems and Renewable Energy s Rivera, Escuela Politecnica Nacional	
		0-13	Characteristics of Moringa Leaf Powder as Fortification and Consumer Acceptance			0-112	Distribution of Heavy Metals on Water and Sediments of Ratai Bay of Pesawaran Regency-Lampung, Indonesia	
13:40	14:10		Yossi Handayani ¹ , Syarifah Aminah ² , Mufiliani Yanis ¹ and Waryat ³ ¹ Jakarta Assesment Institute of Agriculture Technology, ² Indonesian Center for Food Crops Research and Development, ³ Indonesian Center for Horticulture Research and Development	13:40	14:10		Endang Linirin Widiastuti, Ellen Larasati , Warsono, Gregorius Nugroho Susanto and Abdullah Aman Damai University of lampung	
		O-28	The determinant factor of stunting in children under five in Bandar Lampung City			0-113	Distribution of Heavy Metals on Biota of Ratai Bay of Pesawaran Regency- Lampung, Indonesia	
			Yaktiworo Indriani, Samsu Udayana Nurdin and Rodiani University of Lampung				Endang Linirin Widiastuti, Retno Fitrianingsih , Warsono, Supono and Indra Gumay Febryano University of Lampung	
		0-35	Sources of Knowledge for Pregnant Women About How to Prevent Maternal Mortality Based on Group and Mass Communication Levels			0-114	Heavy Metals Concentration in Green Macroalgae <i>Spirogyra</i> sp. of Way Ratai River Pesawaran Regency Lampung	
			Yusriani Universitas Muslim Indonesia				Endang Linirin, Fatimah Alhafizoh , Tugiyono and Gregorius Nugroho Susanto University of Lampung	
		0-130	Assessment of Factors Affecting the Incidence of Malaria in the Middle Wasile Area, East Halmahera Regency, North Maluku Province			0-115	Plankton Diversity and its Heavy Metal Content on Ratai Bay of Pesawaran District-Lmapung Indonesia	
			Adi Hermawan and Sahdan Mustari Institut Teknologi dan Kesehatan Tri Tunas Nasional				Endang Linirin Widiastuti, Anisa Danyatul Afifa , Tugiyono and Suratman University of Lampung	
		0-131	Survey of Knowledge and Practice related Health Risks of Mercury Exposure among Gold Craft Workers in Rappocini Area, Makassar City			0-116	Heavy Metals Determination on Nekton of Way Ratai River of Pesawaran Regency	
			Nanang Rahmadani and Muhammad Syafri Institut Teknologi dan Kesehatan Tri Tunas Nasional				Rizka Ayu Assyifa, Enisantaria br Manik, Endang Linirin Widiastuti, Nuning Nurcahyani , Tugiyono and Wawan A. Setiawan University of Lampung	
		0-132	Factors Related to Knowledge Level of Mother for Providing Complementary Food to Breastfeeding in Central Mamuju District, South Sulawesi			0-118	Management of Lead (Pb) Waste Post Closing of Used Battery Smelter	
			Asmiana Saputri Ilyas and Sitti Herliyanti Rambu Institut Teknologi dan Kesehatan Tri Tunas Nasional				Ridwan Fauzi, Rita, and Siti Masitoh Ministry of Environment and Forestry	
			Issues and Public Health oro Indriani, University of Lampung	Session 7_Heavy Metal Problems and Renewable Energy Chairperson: Dr. Xiaoxu Kuang, Research Institute for Humanity and Nature				
		0-2	Central Java Regional Geochemistry: Influence of Environmental Geology and Mineral Occurrences		14:40	O-107	Bioethanol Production from Seaweed Waste as Biomass Resources	
14:20	14:50		Purnama Sendjaja, Ari Kusniadi and Verry Eddy Setiawan Ministry of Energy and Mineral Resources Republic of Indonesia	14:20			Ina Winarni ¹ , Uju 2, Joko Santoso ² and Tri Wibowo ³ ¹ Forest Product Research and Development Center, ² Bogor Agriculture University, ³ Ministry of Finance	
		0-10	Metals in green mussels: is there any effect on their reproduction? A preliminary study of Muara Angke, Jakarta Bay			O-110	Rooftop Solar PV program for Tourism Villages in Bali	
			Wulan Koagouw ¹² , Ni Luh Putu Rischa Phadmacanty ¹ , Mochamad Riza Iskandar ¹ , Dwi Hindarii and Zainal Arifin ¹ ¹ Indonesian Institute of Sciences, ² University of Brighton				Deddy Kurniawan Halim ¹ and A.A. Nyoman Sri Wahyuni ² ¹ Politeknik Internasional Bali, ² Sekolah Tinggi Ilmu Sosial dan Ilmu Politik Margarana	
		0-17	A Simple Colorimetric Detection of Ceftriaxone and Its Removal Using Zeolite Synthesized from Low-Cost Materials			0-111	Effects of Adhesive Content on the Bioenergetic Properties of Charcoal Briquette from Sengon (<i>Falcataria moluccana</i>) Wood	
			Vicky Prajaputra , Zaenal Abidin, Sri Budiarti and Dyah Tjahyandari Suryaningtyas IPB University				Siti Mutiara Ridjayanti ¹ , Wahyu Hidayat ¹ , Rahmi Adi Bazenet ¹ , Irwan Sukri Banuwa ¹ , Melya Riniarti ¹ , Hendra Prasetia ¹ , Ainin Niswati ¹ , Udin Hasanudin ¹ , Jiho Yoo ² , Sangdo Kim ² and Sihyun Lee ² 1 University of Lampung, 2 Korean Institute of Energy Research,	
		0-19	Adaption Strategy of Fisherman to Climate Change : A Case Study from Limau Sub-District, Tanggamus Regency			0-117	Sugar Production of Autoclave-pretreated Oil Palm Empty Fruit Bunches (<i>Elaeis Guineensis</i> Jacq.) by Different Acids	
			Abdul Mutolib ¹ , Ali Rahmat ² , Indah Listiana ³ , Helvi Yanfika ³ , Diana Widyastuti ³ , and Maya Riantini ³ ¹ Siliwangi University, ² The Indonesian Institute of Sciences, ³ University of Lampung				Fahriya Puspita Sari ¹ , Fitria ^{1,2} , Sita Heris Anita ¹ , Maulida Oktaviani ¹ and Widya Fatriasari ¹ ¹ Research Center for Biomaterials LIPI, ² Washington State University	
		0-34	Study of Potential Pollution of Teaching Laboratory Chemical Waste in IPB University And Its Alternative Management Solutions	14:40	15:00		Break	
			Della Kharisma ¹ , Zaenal Abidin ¹ , Cecep Kusmana ¹ , Herry Suhardiyanto ¹ , Najwa Azzahra Siradj ² ¹ IPB University, ² Bogor Vocational School of Chemical Analyst					
		0-152	Removal of Residual Antibiotics from Hospital Waste Water with Activated Carbon from Palm Kernel Meal (PKM)					
			Achmad Gus Fahmi, Zaenal Abidin , Cecep Kusmana and Erliza Noor IPB university					
14:50	15:10		Break					

start	end		Program (Zoom1)	start	end		Program (Zoom2)
			Issues and Public Health KASAMATSU, Ehime Univeersity				igement and Global Value elya Riniarti, University of Lampung
15.10	15.05	0-14	The Effect of Land Cover Forest on Fluctuations in Availability of Water in the Batutegi Dam, Lampung, Indonesia	15.00	15.05	O-93	The Diversity of Plant Species in the Proboscis Monkey's Habitat as a Species Reference for Habitat Rehabilitation
15:10	15:35		Emi Artika, Slamet Budi Yuwono, Irwan Sukri Banuwa, Agus Setiawan Universitas Lampung	15:00	15:25		Tri Atmoko Ministry of Environment and Forestry
		0-15	A Sociocultural Analysis of Word <i>Ladies</i> in ASGM Area of Suwawa Timur			O-95	Conditions for Successful Local Collective Action in Mangrove Forest Management: Some Evidences from Eastern Coastal Area of South Sulawesi, Indonesia
			Yeni Mariyani Junus ¹ , Muziatun ¹ , Yayu Pongoliu ¹ , Hiroki Kasamatsu ² , Motoko Shimagami ² ¹ Gorontalo State University, ² Ehime University				Sri Suharti ¹ , Dudung Darusman ² , Bramasto Nugroho ² and Leti Sundawati ² ¹ Forest Research and Development Centre, ² Bogor Agricultural University
		O-18	An Analysis of <i>Natural Phenomenon Superstition</i> in ASGM area of Suwawa Timur			O-97	The Potential of Kabuyutan Sacred Natural Site toward a Sustainable Landscape Management in Indonesia
			Mohamad Ariyanto Adjulaini ¹ , Muziatun ¹ , Yayu Pongoliu ¹ , Hiroki Kasamatsu ² and Motoko Shimagami ² ¹ Gorontalo State University, ² Ehime University				Mohammad Zaini Dahlan ¹ , Katsue Fukamachi ² and Shozo Shibata ² ¹ Institut Teknologi Bandung, ² Kyoto University
		O-30	Attitudes and Skills of Women Farmer Groups in Waste Management in the Coastal Areas of Srengsem Village, Bandar Lampung City			O-94	Economic Significance and Challenges in Community-based Sericulture Cultivation
			Yuli Safitri, Kordiyana K. Rangga, Indah Listiana and Rinaldi Bursan University of Lampung				Retno Agustarini , Sri Suharti, Lincah Andadari, Asmanah Widarti and Dhany Yuniati Ministry of Environment and Forestry
		0-32	Effectiveness of Using of Brown Algae Alginate to Immobilize the Indigenouse Bioremediation Bacteria for Reduce Waste Water from Shrimp Culture			0-92	Measurement of the Risk of COVID-19 Exposure to Nurses Working in the COVID-19 Isolation Room
			Agus Setyawan, Supono, Arlin Wijayanti and Ussy Tri Anti University of Lampung				Rahma Yulis and Anggraeni Kae Sekolah Tinggi Ilmu Kesehatan Makassar
			Issues and Public Health Mutolib, Siliwangi University	15:25	15:40		Break
		O-20	Current Situation, Problems, and a New Program of the Long-Term Stay Type ASGM in East Suwawa, Gorontalo, Indonesia				d Business Ethics in Resource Management Prasetia, University of Lampung
15:45	16:05		Hiroki KASAMATSU ¹ , Motoko SHIMAGAMI ¹ , Sri Manovita PATEDA ² , Zuhriana K. YUSUF ² , Wirda Y. DULAHU ³ , Mohammad Rivai NAKOE ² , Yayu PONGOLU ³ , MUZIATUN ³ , Nurfiri Abdul GAFUR ³ and Xiaoxu KUANG ⁴ ¹ Ehime University, ² Gorontalo State University, ³ Bone Bolango Regency, ⁴ Research Institute for Humanity and Nature, Japan	15:40	15:50	O-99	Level Of Gender Equality In Salted Fish Agro-Industrial Production At Tulang Bawang District
		0-22	The Estimated Total Area of Forest Fire in Siak Regency, Riau Province during the Early Period of COVID-19 Outbreak				Helvi Yanfika ¹ , Rudy ¹ , Indah Listiana ¹ , R.A. Diana Widyastuti ¹ , Maya Riantini ¹ and Abdul Mutolih ² ¹ University of Lampung, ² University of Siliwangi
			Muhammad Hidayatul Mustofa, Lailan Syaufina and Nining Puspaningsih IPB University			O-100	Mangrove Forest: Analysis of Regulatory Impact (Studies in the Coastal Zone of the City of Bandar Lampung)
		0-23	Bird's Species Response to The Ex-Coal Mining Reclamation Stages				Novita Tresiana ¹ , Noverman Duadji ¹ , Indra Gumay Febryano ¹ , Maurent Kartika Maharani ¹ and Ali Rahmat ² ¹ University of Lampung, ² Indonesian Institute of Sciences
			Tri Atmoko, Ardiyanto Wahyu Nugroho, and Mukhlisi Ministry of Environment and Forestry				·
		0-31	Time-series Assessment of Artisanal and Small-Scale Gold Mining Sites and Change in Miners' Activities: a Case of Gorontalo, Indonesia				
			Satomi Kimijima ¹ , Masayuki Sakakibara ^{1,2} , Masahiko Nagai ³ ¹ Research Institute for Humanity and Nature, ² Ehime University, ³ Yamaguchi University				

Day 2nd (17 September 2021)

start	end		Program (Zoom1)	start	end		Program (Zoom2)	
8:30	10:00		Ecological Risks and Food Securit (Professor Ryohei Kada, Professor Krista Jacobsen,	y and Sus		Agricultu		
			and Food Security hma Fitriana, University of Lampung	Session 4_Sustainable Agriculture and Equitable Development Chairperson: Dr. Zainal Abidin, University of Lampung				
10:15	10:35	0-39	Basic Hydrogeochemical Characterization in Four Microwatershed in the Mining Districts: Bella Rica, San Gerardo, Nambija and Chinapintza, South of Ecuador Samantha Ruíz, Carolina Bernal, Ximena Díaz and José Luis Rivera Escuela Politécnica Nacional	10:15	10:35	O-79	Contesting Power and Agricultural Expansion in Gunung Halimun Salak National Park (GHSNP) Corridor, West Java, Indonesia Sulastri Sardjo I, 2, Arya Hadi Dharmawan I, Dudung Darusman I and Ekawati Sri Wahyuni I 1 IPB University, 2 University of Indonesia	
		O-40	Influence of Farmer Decision Making Choosing Rice Varieties and Climate Change to Rice Productivity Levels in Central Lampung Regency Kordiyana L. Rangga ¹ , Helvi Yanfika ¹ , Ragil Ayu Mangesti ¹ , Tubagus Hasanuddin ¹ , Rinaldi Bursan ¹ and Ali Rahmat ² ¹ University of Lampung. ² Theonesian Institute of Sciences			O-86	Women's Contribution in Supporting Coffee Sustainability: Case Study in Tana Toraja and Enrekang Districts, South Sulawesi Diany Falla Sophia Hartatri , Fitria Yuliasmara and Novie Pranata Erdiansyah Indonesian Coffee and Cocoa Research Institute	
		0-47	Ecological Risks and Food Security: Community-based Programs in Forest Restoration & Food Security in the Bukit Nanti Martapura Forest Area (UPTD KPH WIL VI Bukit Nanti-Martapura)			O-76	Residents' consciousness of traditional rice cultivation - Case Study of Tana Toraja Regency, Indonesia	
			Noverman Duadji and Novita Tresiana University of Lampung				Kaho Furutani and Hiroki Kasamatsu Ehime University	
		O-50	Income and Welfare of Cassava Farmers in the Era of COVID- 19 in Lampung Province, Indonesia			O-80	Economic Feasibility and Factors Influencing the Sustainability of Hybrid Rice Production	
			Wan Abbas Zakaria, Teguh Endaryanto, Lidya Sari Mas Indah and Dedy Hermawan University of Lampung				I Putu Wardana I, Bhakti Prihatmojo I, Dedi Nugraha I and S.A.N. Aryawati 2 I Indonesian Center for Food Crops Research and Development, 2 Bali Assessment Institute for Agricultural Technology	
			and Food Security Prasetia, University of Lampung	Session 4_Sustainable Agriculture and Equitable Development Chairperson: Mr. Bangun Adi Wijaya, University of Lampung				
		0-38	Study of Rhodamine B Dyes Content in Snacks of Karuwisi Traditional Market Makassar, South Sulawesi, Indonesia			O-69	Meranti Biochar Effect on Growth of Falcataria Moluccana Seedlings	
10:45	11:05		Andi Tilka Muftiah Ridja , Andi Yulia Kasma and Aminullah Sekolah Tinggi Ilmu Kesehatan Makassar	10:45	11:15		Melya Riniarti ¹ , Hendra Prasetia ¹ , Wahyu Hidayat ¹ , Ainin Niswati ¹ , Udin Hasanudin ¹ , Irwan Sukri Banuwa ¹ , Aulia Asmara Loka ¹ , Jiho Yoo ² , Sangdo Kim ² and Sihyun Lee ² ¹ University of Lampung, ² Korean Institute of Energy Research	
		0-44	Authentication of Pure and Adulterated Sumbawa Monofloral Honey using Ultraviolet-Visible Spectroscopy Diding Suhandy I, Kusumiyati 2, Sapto Kuncoro I, Winda Rahmawati I and Meinilwita Yulia			0-73	Monstera adansonii Plant Propagation Acceleration Using Bud Breaker and Rootmore Hayane Adeline Warganegara and Sri Ramadiana	
		0-45	l University of Lampung, 2 Padjadjaran University, 3 Lampung State Polytechnic UV Spectroscopy for Discrimination of Two Arabica Coffee Cultivars in West Java Indonesia: A Feasibility Study			O-85	University of Lampung Accelerated Growth of <i>Kappaphycus alvarezii</i> with Using Sargassum aquifolium Extract	
			Meinilwita Yulia ¹ , Kurnia Rimadhanti Ningtyas ¹ , Siti Suharyatun ² , Winda Rahmawati ² and Diding Suhandy ² ¹ Lampung State Polytechnic, ² University of Lampung				Nunik Cokrowati ¹ , Yenny Risjani ² , Muhamad Firdaus ² and Sri Andayani ² ¹ University of Mataram, ² University of Brawijaya	
		0-46	Nutritional Quality of Faloak (<i>Sterculia quadrifida</i> R.Br.) Plant Parts			0-77	Application of Biochar from Oil Palm Empty Fruit Bunches to Enhance the Soil Fertility and Growth of <i>Falcataria Moluccana</i> Plantation	
			Siswadi Siswadi ¹ , Grace Serepina Saragih ² and Heny Rianawati ³ ¹ Banjarbaru Environment and Forestry Research and Development Institute, ² Research and Development Center for Environmental Quality and Laboratory, ³ Kupang Environment and Forestry Research Development Institute				Novendra Muhammad Rafiy ¹ , Melya Riniarti ¹ , Hendra Prasetia ¹ , Wahyu Hidayat ¹ , Ainin Niswati ² , Udin Hasanudin ¹ , Irwan Sukri Banuwa ¹ , Jiho Yoo ² , Sangdo Kim ² and Sihyun Lee ² ¹ University of Lampung, ² Korean Institute of Energy Research	
11:05	11:20) Break				O-67	Physico-chemical and Chemical Characterization of Lignin Isolated from Black Liquor of Pulp Industry by-product	
I							Nissa Nurfajrin Solihat ¹ , Eko Budi Santoso ² , Maya Ismayati ¹ , Muhammad Adly Rahandi Lubis ¹ , Fahriya Puspita Sari ¹ , Faizatul Falah ¹ , Widya Fatriasari ¹ and Wasrin Syafii ² ¹ Indonesian Institute of Sciences, ² Institut Pertanian Bogor	
						O-78	Studies on the Crude Nutrient and Mineral Composition of Cassava Tuber Peels for Animal Feedstuff	
							Khalil Andalas University	

start	end		Program (Zoom1)	start	end		Program (Zoom2)
			munity Development aat, Indonesian Institute of Sciences				culture and Equitable Development iniarti, University of Lampung
		O-120	Reformulation of Socially Resilient Village			0-82	Effect of Meranti-based Biochar on the Growth of Sengon (Facataria moluccana)
11:20	11:40		Nyi R. Irmayani, B. Mujiyadi, Habibullah, Nurhayu, Rudy G. Erwinsyah and Arif Aeni Ministry of Social Affairs Republic of Indonesia	11:25	11:35		Bangun Adi Wijaya 1, Melya Riniarti 1, Hendra Prasetia 1, Wahyu Hidayat 1, Ainin Niswati 1, Udin Hasanudin 1, Irwan Sukri Banuwa 1, Jiho Yoo 2, Sangdo Kim 2 and Sihyun Lee 2 1 University of Lampung, 2 Korean Institute of Energy Research
		0-121	Relationship on Forest Health with the Welfare Level of the Community Around the Mangrove Forest			0-71	Characteristic of Growth and Development of Red Chili (Capsicum ANNUM L.) by Biofertilizer and Alkali Supplement Fertilizer Application
			Irlan Rahmat Maulana ¹ , Rahmat Safe'1 ¹ , Indra Gumay Febryano ¹ , Hari Kaskoyo ¹ and Ali Rahmat ² ¹ University of Lampung, ² Indonesian Institute of Sciences				R.A.D Widyastuti 1, Kus Hendarto 1, Fitri Yelli 1, Indah Listiana 1, Helvi Yanfika 1, Maya Riantini 1, Ali Rahmat 2 and Abdul Mutolib 3 1 University of Lampung, 2 Indonesian Institute of Science, 3 University of Siliwangi
		0-124	Creating Community Awareness Inaction on Environmental Problems: Implementation and Outcomes of Cinematic Education				
			Andi Muhammad Nur Fitrah Syamsul ¹ , Mohamad Jahja ¹ , Lanto Ningrayati ² and Satomi Kimijima ³ ¹ State University of Gorontalo, ² Ehime University, ³ Research Institute for Humanity and Nature	11:35	13:30		Lunch Break
		0-126	Spatial Structure and Community Perception of Pejaten Village on Policy Determining Rural Industry Area in Tabanan District, Bali				
			Nyoman Utari Vipriyanti , Sang Putu Kaler Surata, I Putu Sujana, Emy Handayani and Dewa Ayu Puspawati Universitas Mahasaraswati Denpasar		rson: Ms.		culture and Equitable Development aila Sophia Hartatri, Indonesian Coffee and Cocoa Research
11:40	13:30		Lunch Break			O-89	Analysis of Food Expenditures of Rice Farmers in Flooding Prone Region in South Lampung District, Lampung Province
			munity Development (utolib, Siliwangi University	13:30	13:55		Zainal Abidin, Dewangga Nikmatullah, Adia Nugraha and Yuliana Saleh University of Lampung
12.20	12.45	0-119	Changes in Land Use using the NDVI (Normalized Difference Vegetation Index) Method in Kedamaian Sub district, Bandar Lampung City as Urban City			0-83	Farmers' Perception to Climate-Smart Agriculture (CSA) and Coffee Farming Productivity (Case Study on Coffee Farming Families in Tanggamus District, Lampung Province)
13:30	13:45		Ali Rahmat ¹ , Azan Noer Ramadhan ² , Winih Sekaringtyas Ramadhani ² , Indah Listiana ² , Muhammad Nurtanto ³ and Rinaldi Bursan ² ¹ Indonesian Institute of Science, ² University of Lampung, ³ Sultan Ageng Tirtayasa University				Tubagus Hasanuddin and Intan Diani Fardinatri University of Lampung
		0-128	The Impact of Transplants Machine on Acceleration of Innovations Adoption in Rice Cultivation			O-91	The Culture of Farmers-Breeders Mitigation Facing Drought in Lampung, Indonesia
			F Y Adriyani ¹ and K K Rangga ² ¹ The Assessment Institute of Agricultural Technology, ² University of Lampung				Slameto, Jekvy Hendra, Meidaliyantisyah and Rely Hevrizen Lampung Assesment Institute Agricultural Technology
		0-123	Farmers Perceptions of Paddy Rice Cultivation Technology in Jakarta City			O-68	Behavior of Farmers in Adaptation to Climate Change on Productivity of Pepper (Pipper nigrum L.) in East Lampung Regency
			Chery Soraya Ammatillah ¹ , Susi Sutardi ¹ , Syarifah Aminah ² and Dan Narmalinda ¹ ¹ Jakarta Assessment Institute for Agricultural Technology, ² Indonesian Center for Food Crops Research and Development				Indah Listiana ¹ , Helvi Yanfika ¹ , Rinaldi Bursan ¹ , Habibbullah Jimad ¹ , Maya Riantini ¹ , R.A.D Widyastuti ¹ , Abdul Mutolib ² and Reno Wikandaru ³ ¹ University of Lampung, ² University of Siliwangi, ³ University of Gadjah Mada
		Break				O-74	Placement Precision of Organic Fertilizer Based on Soil Conservation in Taro Cultivation
13:45	14:30						Andi Masnang, Asmanur Jannah, Dyah Budibruri, Wibaningwati and Febi Nurilmala Nusa Bangsa University
							Break
14:30	16:00 Poster session via Spetial Chat (*ONLY Zoom 1)						

		-	Poster session via Spatial Chat	
14:30			Service Quality and Patient Interest in Choosing Class 2 Inpatient Care	Herlinawati I, Muslimin I, Heni Fa'riatul Aeni I and Lisandi I Sekolah Tinggi Ilmu Kesehatan Cirebon
		P-2	A Comparative Study of the Neurological Symptoms of the Suwawa Artisanal and Small- Scale Gold Mining (ASGM) Community	Diaz Regina Shafira ¹ , Zuhriana K. Yusuf ¹ , Sri Manovita Pateda ¹ , Wirda Y. Dulahu ¹ , Mohammad Rivai Nakoe ¹ and Nurfitri A. Gafur ²
				¹ State University of Gorontalo, ² Bone Bolango regency
		Р-3	The Impact of COVID-19 Pandemic in ASGM Community	Widya Puspa Molou ¹ , Wirda Y Dulahu ¹ , Sri Manovita Pateda ¹ , Zuhriana K Yusuf ¹ , Mohamad Rivai Nakoe ¹ and Nurfitri Gafur ²
				¹ State University of Gorontalo, ² Bone Bolango regency
		Р-4	Tobacco Consumption Behaviour in Artisanal and Small-scale Gold Mining (ASGM) Community	Putri Dian Puspita ¹ , Moh. Rivai Nakoe ¹ , Zuhriana K. Yusuf ¹ , Sri Manovita Pateda ¹ , Wirda Y. Dulahu ¹ , Nurfitri A. Gafur ²
				¹ State University of Gorontalo, ² Bone Bolango regency
	P-7		Mapping of Mangrove Ecosystem Conditions in Coastal Waters of Bintan Island using SPOT 4 and SPOT 7 Satellite Imagery	Money Carattri Kusuma Werdani ¹ , Rudi Siap Bintoro ¹ and Anang Dwi Purwanto ² Hang Tuah University, ² Remote Sensing Applications Center, LAPAN
		P-10	Consumer Skepticism toward Green Purchase Intention in	Rinaldi Bursan ¹ , Driya Wiryawan ¹ , Habibbullah Jimad ¹ , Indah Listiana ¹ , Maya Riantini ¹ , Helvi
			Bandar Lampung	Yanfika $^{\rm l},$ RAD Widyastuti $^{\rm l},$ Abdul Mutolib $^{\rm 2}$ and Dina Arini Adipathy $^{\rm 3}$
				¹ University of Lampung, ² University of Siliwangi, ³ Magister Management University of Lampung
		P-14	The Relationship Between Income and Inhabitant Consumption Patterns in Suwawa Timur ASGM Area During the Pandemic of	Achmad Renaldi Saputra Illy ¹ , Yayu Pongoliu ¹ , Junus Buhari Hafid ¹ , Muziatun ¹ , Hiroki Kasamatsu
			Covid-19	² , Motoko Shimagami ²
				¹ State University of Gorontalo, ² Ehime University
		P-15	Family Financial Condition During The COVID-19 Pandemic	Junus Buhari Hafid ¹ , Yayu Pongoliu ¹ , Achmad Renaldi Saputra Illy ¹ , Muziatun ¹ , Hiroki Kasamatsu
			in Suwawa Timur ASGM	² , Motoko Shimagami ²
				¹ State University of Gorontalo, ² Ehime University

(Day3) 18th September, 2021

start	end		Program (Zoom1)	start	end		Program (Zoom2)					
0.00	10.00				y sessio							
8:30	10:00		Disaster Risks Reduction and Disaster Management and Sustainable Development Goals (SDGs) (Professor Atsushi Yoshimoto, Dr. Irwan Meilano, Professor. Rudy and Dr. Yayu Indriati Arifin) (*ONLY Zoom 1)									
			Reduction and Disaster Management Nilam Sari, Andalas University				e <mark>velopment Goals (SDGs)</mark> nad Jahja, Gorontalo State University					
		O-52	Geological, Geohydrological Mapping And Disaster Analysis in Baturturu Hamlet, Mertelu Village, Gunungkidul District, D.I. Yogyakarta			O-145	Development of Geo-tourism Site in Bunikasih-Pangalengan: Environmen Conservation from ASGM Activities					
10:15	10:50		Fajriani ¹ , Nurfadillah Jusman ¹ , Umrah ¹ , Ayusari Wahyuni ¹ , Ihsan ¹ , Muh Said ¹ and M Arif Rahmna Bole ² ¹ UIN Alauddin Makassar, ² Gadjah Mada University,	10:15	10:35		Idham Andri Kurniawan ¹ , Mirzam Abdurrachman ¹ , Masayuki Sakakibara ² , Irwan Mei ¹ , Nurcahyo Indro Basuki ¹ , Andri Slamet Subandrio ¹ , Very Susanto ¹ , Adzkia Noerma Ari and Muhammad Saung Penggalih ¹ ¹ Bandung Institute of Technology, ² Research Institute for Humanity and Nature					
		O-53	Earthquake Hazard Analysis Based on Seismicity Data			O-146	The Structure of Sustainable Eco-tourism with the Case Study of Geodiversity Story in the Oze National Park, Central Japan					
			Wa Ode Emiria Srikandi , Intan Noviantari Manyoe, Yasin Septian and Dela Pusfika Sari Napu Universitas Negeri Gorontalo				Hisanari Sugawara Gunma Museum of Natural History					
		O-54	Assessment of Student Knowledge Concerning COVID-19 Transmission: A Case Study in a Health Institute			O-148	Visitors Experience on Sumatran Butterfly Ecotourism in Sustainable Environmental Awareness					
			Esse Puji Pawenrusi , Nurleli and Rika Pratiwi Sekolah Tinggi Ilmu Kesehatan Makassar				Gita Paramita Djausal ¹ , Lilih Muflihah ¹ , Linda Rosalia ² and M. Hanif Khairy V ¹ ¹ University of Lampung, ² Yayasan Sahabat Alam					
		O-55	Business Models on Peatlands to Prevent Land and Forest Fires			0-151	Assessment of Geosite for Geotourism Development in Gorontalo Outer Ring Road Area					
			Dhany Yuniati ¹ , Husnul Khotimah ¹ , Yunita Lisnawati ¹ and Habibi Mainas ² ¹ Ministry of Environment and Forestry, ² Indonesian Conservation Community Warsi				Naafi' Syahna Firdhaus Biya, Intan Noviantari Manyoe, Moh. Afandi Polontalo, Fikri Boften, Mardiana Baharta, Alifi Naftalia and Fauzul Chaidir Usman Universitas Negeri Gorontalo					
		O-56	Synergy between Disaster Preparedness Area Program with Local Institutions for Community Disaster Preparedness				evelopment Goals (SDGs) ri Sugawara, Gunma Museum of Natural History					
			Suradi, Setyo Sumarno, Sugiyanto, Togiaratua Nainggolan, Ruaida Murni, Rudy G. Erwinsyah and Lis Andriyani Ministry of Social Affairs the Republic of Indonesia	10:45	11:05	O-136	Vulnerability of Fishermen Household Poverty the Impact of Climate Varibility in the Tanggamus District, Lampung Province, Indonesia					
		O-5 7	The Role of Crystal Fraction to Relative Magma Viscosity: An Approach to Understand the Explosive Caldera-Forming Volcanism of Raung Volcano		11.05		Maya Riantini ¹ , Indah Listiana ¹ , Helvi Yanfika ¹ , RAD Widyastuti ¹ , Abdul Mutolib ² , Rahmat ³ and Rinaldi Bursan ¹ Lampung University, ² Siliwangi University, ³ Indonesian Institute of Science					
			Firman Sauqi Nur Sabila ¹ , Mirzam Abdurrachman ² and Idham Andri Kurniawan ² ¹ Universitas Jember, ² Institut Teknologi Bandung			O-137	Social Entrepreneurship Program to Improve the Economic Welfare of P Families in Indonesia					
		O-58	Reducing the Risk Disaster of COVID-19 in Indonesia with Social Cash Assistance				Hari Harjanto Setiawan, Badrun Susantyo, Agus Budi Purwanto, Muhammad Belanawa Sulubere, Delfirman, Yanuar Farida Wismayanti, Alit Kurniasari, Husmiati Yusuf, Aulia Rahman, Ita Konita, Mery Ganti and Widiarto Ministry of Social Affairs the Republic of Indonesia					
			Badrun Susantyo , Habibulah, Nyi Irmayani, Togiaratua Nainggolan, Sugiyanto, Rudy G. Erwinsyah, Aulia Rahman, Johan Arifin and Bilal As'Adhanayadi Ministry of Social Affairs The Republic of Indonesia			O-144	The Resource Management and Subjective Well-Being of Indonesian Families in the Midst of COVID-19 Pandemic					
			Reduction and Disaster Management n Sauqi Nur Sabila, Institut Teknologi Bandung				Megawati Simanjuntak and Istiqlaliyah Muflikhati Department of Family and Consumer Sciences, Faculty of Human Ecology					
		O-59	Landuse Changes, Climate Change and Flood Episodes in Way Bulok Watershed Lampung Province			O-135	Accounting Correlated Random Parameters in Best-worst Scaling: Case Preferences of Job Opportunities in Artisanal Small Gold Mining (ASGN Community in Indonesia					
1:00	11:10		Slamet Budi Yuwono , Irwan Sukri Banuwa and Nano Suryono University of Lampung				Satoru Komatsu ¹ , Yayu Isyana D. Pongoliu ² , Katsuya Tanaka ³ , Masayuki Sakakibara ⁴ Taro Ohdoko ⁶ ¹ Nagasaki University, ² Gorontalo State University, ³ Shiga University, ⁴ Research Institu Humanity and Nature, ⁵ Ehime University, ⁶ Dokkyo University					
		O-62	Community Preparedness Against the Threat of Abrasion and Tidal Floods in Padang City		-	-						
			Putri Nilam Sari , Yulina Wahyuningrum Purba and Azyyati Ridha Alfian Andalas University									

	i uti i tham Sari, i uma wanyumigi un i utua and Azyyati Kuna Aman
	Andalas University

(Day3) 18th September, 2021

start	end	Progra	m (Zoom1)	start	end	Progra	m (Zoom2)	
			Reduction and Disaster Management n Sauqi Nur Sabila, Institut Teknologi Bandung				evelopment Goals (SDGs) ndriati Arifin, Gorontalo State University	
11:10	11:15	O-65	Hazard assessment of tephra fallout for October 2013 eruption of Tangkuban Perahu in Lembang subdistrict, West Java, Indonesia I Gusti Eddy Sucipta, Idham Andri Kurniawan, Mirzam Abdurrachman , Asep Saepuloh, Muhammad Rais Abdillah, Very Susanto and Adzkia Noerma Arifa Bandung Institute of Technology	11:15	11:30	O-134	Household Demand for Animal Food in Urban and Rural of Bengkulu, Indonesia Nikmatul Khoiriyah ¹ , Ana Arifatus Sa'diyah ² and Esther Kembauw ³ ¹ University of Islam Malang, ² University of Tribhuwana Tunggadewi, ³ University of Pattimura	
11:15	13:00					O-140	Limboto Lake Case and Cultural Diversity Magdalena Baga, Yayu Indriati Arifin and Nonny Basalama Universitas Negeri Gorontalo	
						O-143	Model of Potential Fishing Ground in Regional Fisheries Management of Indonesia (WPP-RI) 716 to Support the Achievement of SDGs Anang Dwi Purwanto ¹ , Argo Galih Suhada ¹ and Diyah Permatasari ²	
							¹ Remote Sensing Applications Center, LAPAN, ² Diponegoro University evelopment Goals (SDGs) Andri Kurniawan, Bandung Institute of Technology	
						O-147	A Novel Palm-fiber Net Industry as New Hope of Alleviating Poverty in Gorontalo Province	
			Lunch Break	11:40	11:55		Mohamad Jahja ¹ , Nurfitri Abdul Gafur ^{1,2} , Hugeng Lamansa ² , Masayuki Sakakibara ^{3,4} and Tsutomu Yamagiuchi ⁵ ¹ State University of Gorontalo, ² Bone-bolango Regency, ³ Ehime University, ⁴ Research Institute for Humanity and Nature, ⁵ ESPEC MIC Corp.	
						O-133	The Effect of Acclimatization Chamber and Growth Hormone on the Survival of Endangered <i>Hopea Gregaria</i> Tree Species	
							Faisal Danu Tuheteru ¹ , Asrianti Arif ¹ ,Husna1, Albasri ¹ , Sri Andriyani ¹ and Diana Prameswari ² ¹ University of Halu Oleo, ² Forest Research and Development Center	
						O-149	The Response of Medang Seedling (<i>Litsea firma</i> Hook) to Various Doses of Biofertilizer	
							Diana Prameswari, Dona Octavia and Lincah Andadari Forest Research and Development Center	
				11:55	13:00		Lunch Break	
13:00	14:30		Workshop 1 Transdisciplinary Approach to Reducing the ASGM related	13:00	14:30		Workshop 2 Sustainability Certification of Agricultural System	
			Problems Organized by RIHN				Organized by UNIRA	
14:40	15:30		Discussion (*ONLY Zoom 1)					
15:30	16:00		Closing ceremony (*ONLY Zoom 1)					

Application of Biochar from Oil Palm Empty Fruit Bunches to Enhance the Soil Fertility and Growth of *Falcataria Moluccana* Plantation

Novendra Muhammad Rafly ¹, Melya Riniarti ¹, Hendra Prasetia ¹, Wahyu Hidayat ¹, Ainin Niswati ², Udin Hasanudin ¹, Irwan Sukri Banuwa ¹, Jiho Yoo ², Sangdo Kim ² and Sihyun Lee ²

¹ Faculty of Agriculture, University of Lampung, Indonesia

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Abstract: Oil Palm Empty Fruit Bunches (OPEFB) wastes were abundant and became problems. The biochar application would solve the problems due to the great role of biochar as soil amendment. The aim of this study was to investigate the application of OPEFB biochar to enhance the soil fertility and growth of *Falcataria molucanna*. Biochar was produced by a slow pyrolysis at temperature of 400 °C and 600 °C. Biochar was applied to the six-month *F. molucanna* trees in the plantation with 3 dosage (0 ton/ha, 5 ton/ha and 10 ton/ha). Growth parameters such as height and diameter increment was observed once a month during six months, while the P-shoot content, soil pH, cation exchange capacity (CEC), C-organic, and P-soil content were taken once at the end of the experiments. The result showed that the growth of *F. molucanna* was increased by application of OPEFB biochar and significantly different from the control. The application 5 ton/ha of 400°C OPEFB biochar indicated the best result of the growth parameters. Otherwise, the interaction of pyrolysis temperature and biochar dosage of soil properties affected to the C-organic and P-soil content. Meanwhile, there is no significance different between the temperature and biochar dosage to the soil pH and CEC.

Keywords: Biochar; Falcataria molucanna; Oil palm; OPEFB; Soil amendment



Certificate of Appreciation

This certificate of appreciation is awarded to

NOVENDRA MUHAMMAD RAFLY



for the participation as a **Presenter** in

the 4th International Conference of the Transdisciplinary Research on Environmental Problems in Southeast Asia (TREPSEA 2021) was held as an online conference from September 16th to 18th, 2021.

Presented by



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Professor Masayuki Sakakibara Project Leader, SRIREP Project, Research Institute for Humanity and Nature (RIHN)

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