

AGENDA 1ST ICSTLM

Wednesday, 16 September 2020

Time	Agenda				
08.30-09.15	Opening: MC Welcome speech: <i>General Director, IAARD</i> Opening and Welcome remark : <i>Minister of Agriculture</i>				
09:15-10:00	KEYNOTE (PLENARY SESSION 1)				
	Moderator: Dr. Husnain (Director, Indonesian Center for Agricultural Land Resources Research and Development) Prof. Takashi Kosaki, President of IUSS: Soils in the humid tropic - Degradation processes and strategies for remediation				
10:15-11:15	PARALLEL SESSION 1				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Prof. Kukuh Murti Laksono IPB University	Dr. Setiari Marwanto IAARD	Dr. Asmarhamsyah IAARD	Dr. Haryono IAARD	Dr. Surono IAARD
Secretary	Darin Firdha	Misnawati	Dila Aksani	Erwinda	Mira Media
Invited speaker/presenter 10:15-10:25	Prof. Budi Mulyanto (HITI)	643	Prof. Dr. Supiandi Sabiham, M.Agr (Peat Society of Indonesia)	177	Dr. Kanika Singh The University of Sydney
Presenter 10:25-10:35	320	544	316	338	440
10:35-10:45	478	284	322	345	723
10:45-10:55	433	306	392	921	783
10:55-11:15	Discussions				

PARALLEL SESION 2					
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. Syafaruddin IAARD	Dr. Prama Yufdi IAARD	Prof. Supiandi Sabiham (Peat Society of Indonesia)	Dr. Anne Nurbaiti Pajajaran University	Prof. Tualar Simarmata Pajajaran University
Secretary	Dariin Firdha	Misnawati	Dila Aksani	Erwinda	Risqa Nurkhaidah
11:30-11:35	746	Dr. Gina P. Nilo,	928	868	884
11:35-11:45	540	334	405	466	796
11:45_11:55	583	669	498	487	824
11:55-12:15	Discussions				
KEYNOTE (PLENARY SESSION 2)					
13:15-16:00	<p>Moderator: Prof. Budi Mulyanto (Chair, Indonesian Soil Science Society)</p> <p>Prof. Budiman Minasny, University of Sydney, Australia: Carbon dynamics of tropical soils and their implications to sustainable agriculture</p> <p>Dr. Jan Verhagen, Wageningen University & Research, Netherlands: Soil management for adaptation and mitigation of climate change</p> <p>Dr. Cornelia Rumpel, French National Centre for Scientific Research, France: The 4p 1000 initiative as multi-stakeholder platform to achieve organic carbon sequestration in tropical soils through sustainable practices</p>				

Thursday, 17 September 2020

Time	KEYNOTE (PLENARY SESSION 3)				
08:00-10:15	<p>Moderator: Dr. Haris Syahbuddin (Executive Secretary, Indonesian Agency for Agricultural Research and Development)</p> <p>Dr. Patricio Grassini, University of Nebraska-Lincoln, USA: Potential cereal production increase in Indonesia with current land and water resources</p> <p>Prof. Fahmuddin Agus, Indonesian Soil Research Institute: Greenhouse gases emission reduction from Indonesian oil palm plantation: closing yield gap and expansion to low carbon stock lands</p> <p>Prof. Maine van Noordwijk, World Agroforestry Center, Nairobi, Kenya: The role of agroforestry in adaptation and mitigation to climate change</p>				
10:30-11:55	PARALLEL SESSION 3				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. A. Arivin Rivaie IAARD	Prof. Irsal Las IAARD	Prof. Nurcholis UPN	Prof Tjeppey Sudjana IAARD	Dr. Irawan IAARD
Secretary	Rachmat Abdul Gani	Erwinda	Rufaidah Qonita	Darin Firdha	Dila Aksani
Invited speaker/presenter 10:30-10:40	602	416	504	510	Dr. Wirastuti Widyamanti Gadjah Mada University
Presenter 10:40-10:50	658	439	558	494	837
10:50-11:00	668	476	605	496	856
11:00-11.10	684	488	586	525	870
11:10-11:20	830	838	590	660	683
11:20-11:45	Discussion				
12:30-13:45	PARALLEL SESION 4				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. Muhrizal Sarwani IAARD	Prof Tahlim Sudaryanto Ministry of Agriculture	Dr. Edi Husen IAARD	Dr. Eko Hanudin Gadjah Mada University	Dr. Ir. H. Soetanto Abdoellah (Puslit Koka)

Secretary	Rachmat Abdul Gani	Rufaidah Qonita	Mira Media	R. Iman Muhardiono	Diah Puspita Hati
Invited speaker/presenter 12:30-12:40	719	490	615	Ms. Lucrezia Caon, (FAO)	Dr. M. Rokhis Khomaruddin
12:40-12:50	749	493	624	553	913
12:50-13:00	750	509	647	554	925
13:00-13:10	773	408	650	578	695
13:10-13:20	842	539	664	588	900
13:20-13:45	Discussion				
14:00-15:15	PARALLEL SESION 5				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. Markus Anda IAARD	Prof. Hasil Sembiring IAARD	Dr Asmarhamsyah IAARD	Dr Suwardi IPB University	Prof Dian Fiantis Andalas University
Secretary	Mira Media	Misnawati	Diah Puspita Hati	R. Iman Muhardiono	Risqa Nurkhaidah
Invited speaker/presenter 14:00-14:10	846	597	666	874	Dr. Shin-ichi Sobue (Japan Aerospace Exploration Agency)
Presenter 14:10-14:20	852	606	682	592	901
14:20-14:30	860	608	703	601	907
14:30-14:40	926	610	717	609	915
14:40-14:50	789	611	733	612	781
14:50-15:15	Discussion				
15:30-16:45	PARALLEL SESION 6				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. Benito Gadjah Mada university	Dr. Abderrahim Nassir OCP SA Morocco	Prof. Sri Nuryani Gadjah Mada university	Prof Ainin Nastiti Lampung University	Dr. Dr. Wirastuti Widyamanti Gadjah Mada university
Secretary	Darin Firdha	Misnawati	Dila Aksani	Erwinda	Rachmat Abdul Gani
Invited speaker/presenter 15:30-15:40	790	Dr. Tan Ngai Paing (UPM)	735	Dr. Christian Hartmann (IRD, France)	654
Presenter 15:40-15:50	793	Dr. Husnain (IAARD)	741	628	785
15:50-16:00	709	784	744	641	792

16:00-16:10	802	850	760	477	795
16:10-16:20	803	406	768	655	809
16:20-16:45	Discussion				

Friday, 18 September 2020

08:00-09:15	PARALLEL SESION 7				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. Harmanto IAARD	Dr. Ladiyani R W IAARD	Dr. Ir. Bess Tiesnamurti, M.Sc IAARD	Dr. Dwi Setyawan Sriwijaya University	Dr. Rizatus S. IAARD
Secretary	R. Iman Muhandiono	Rufaidah Qonita	Dila Aksani	Erwinda	Rachmat Abdul Gani
Invited speaker/presenter 08:00-08:10	804	Prof. Tsugiyuki Masunaga (SHIMANE)	769	Ms. Nopmanee Suvannang, (LDD, Thailand)"	814
08:10-08:20	807	930	777	667	820
08:20-08:30	817	794	894	672	827
08:30-08:40	864	931	841	704	828
08:40-08:50	869	705	821	711	863
08:50-09.15	Discussion				
09:30-11:00	PARALLEL SESION 8				
	LULS	SWCM	CC	SQA	DPA
Facilitator	Dr. Wiharjaka IAARD	Prof Kurniatun Khairiah Brawijaya University	Dr. Dwi Purnanto Ariyanto UNS	Dr. Afra D Makalew IPB University	Prof Bambang Mataram University
Secretary	R. Iman Muhandiono	Risqa Nurkhaidah	Rufaidah Qonita	Erwinda	Rachmat Abdul Gani
09:30-09:40	822	679	829	725	866
09:40-09:50	823	721	832	731	652
09:50-10:00	788	726	835	732	873
10:00-10:10	707	729	813	743	878
10:10-10:20	845	730	862	747	880
10:20-10:30	533	671	871	756	882
10:30-11:00	Discussion				

PARALLEL SESION 9					
	LULS	SWCM	CC	SQA	DPA
13:00-14:15					
Facilitator	Dr. Setyono Hari Adi IAARD	Dr. Syaiful Anwar IPB University	Dr. Asep Nugraha IAARD	Dr. Adha F Siregar IAARD	Dr. Elza Surmaini IAARD
Secretary	Risqa Nurkhaidah	Darin Firdha	Rufaidah Qonita	Diah Puspita Hati	Mira Media
Presenter 13:00-13:10	854	739	787	762	899
13:10-13:20	857	751	902	766	903
13:20-13:30	859	752	911	770	905
13:30-13:40	670	758	919	771	917
13:40-13:50	865	759	924	772	918
13:50-14:15	Discussion				
PARALLEL SESION 10					
	LULS	SWCM	CC	SQA	DPA
14:30-16:00					
Facilitator	Prof. Hermansyah Andalas University	Prof. Supriadi IAARD	Dr. Helena Lina Susilawati IAARD	Dr. Setiari Marwanto IAARD	Hendri S., CESA IAARD
Secretary	Risqa Nurkhaidah	R. Iman Muhandiono	Misnawati	Diah Puspita Hati	Mira Media
Presenter 14:30-14:40	872	774	897	776	927
14:40-14:50	875	779	898	780	929
14:50-15:00	892	932	825	923	712
15:00-15:10	844	582	722	775	922
15:10-15:20	818	713	810	819	826
15:20-15:45	Discussion				
15:45-16:15	Closing Ceremony				

AGENDA 1ST ICSTLM

LULS: Land use, land suitability, and risk mappings – the relationship with agricultural sustainability

Wednesday, 16 September 2020

Time	Agenda
08.30-09.15	Opening: MC Welcome speech: <i>General Director, IAARD</i> Opening and Welcome remark : <i>Minister of Agriculture</i>
KEYNOTE (PLENARY SESSION 1)	
09:15-10:00	Moderator: Dr. Husnain (Director, Indonesian Center for Agricultural Land Resources Research and Development) Prof. Takashi Kosaki, President of IUSS: Soils in the humid tropic - Degradation processes and strategies for remediation
PARALLEL SESSION 1	
10:15-10:25	Invited Speaker : Prof. Dr. Budi Mulyanto (<i>Indonesian Soil Science Society</i>) Landuse and challenges of sustainability of agriculture in Indonesia. Facilitator : Prof. Kukuh Murtilaksono Secretary : Dariin Firda
10:25-10:35	Properties and carbon stocks of tropical tidal peat soils deposited on coral limestone in Numfor and Supiori Islands, Papua Province (<i>R. A. Gani, et al – ICALRD</i>) ID 320
10:35-10:45	An early investigation of spatial correlation between Sentinel - 2 based rice growth stages maps with satellite-based precipitation data to support digital agriculture development in Indonesia (<i>F. Ramadhani, et al – Massey University</i>) ID 478

10:45-10:55	Impact of methane-utilizing bacteria on rice yield, inorganic fertilizers efficiency, and methane emissions (<i>E. Pratiwi, et al – ISRI</i>) ID 433	
10:55-11:15	Discussions	
PARALLEL SESSION 2		
11:30-11:35	Pedogenic processes of carbonate rocks in the tropical region as a key for sustainable soil management (<i>A. Ahmada, et al - Universitas Hasanuddin</i>) ID 746	Facilitator : Dr. Syafaruddin Secretary : Dariin Firda
11:35-11:45	Land suitability for agricultural development in Jayapura Regency, Papua (<i>A. Malik, et al – AIAT of Central Java</i>) ID 540	
11:45-11:55	Updating the swamp map scale of 1: 50,000 with quick assessment and decision tree method (<i>Mawardi, et al – ISARI</i>) ID 583	
11:55-12:15	Discussions	
KEYNOTE (PLENARY SESSION 2)		
13:15-16:00	<p>Moderator: Prof. Budi Mulyanto (Chair, Indonesian Soil Science Society)</p> <p>Prof. Budiman Minasny, University of Sydney, Australia: Carbon dynamics of tropical soils and their implications to sustainable agriculture</p> <p>Dr. Jan Verhagen, Wageningen University & Research, Netherlands: Soil management for adaptation and mitigation of climate change</p> <p>Dr. Cornelia Rumpel, French National Centre for Scientific Research, France: The 4p 1000 initiative as multi-stakeholder platform to achieve organic carbon sequestration in tropical soils through sustainable practices</p>	

Thursday, 17 September 2020

Time	KEYNOTE (PLENARY SESSION 3)	
08:00-10:15	<p>Moderator: Dr. Haris Syahbuddin (Executive Secretary, Indonesian Agency for Agricultural Research and Development)</p> <p>Dr. Patricio Grassini, University of Nebraska-Lincoln, USA: Potential cereal production increase in Indonesia with current land and water resources</p> <p>Prof. Fahmuddin Agus, Indonesian Soil Research Institute: Greenhouse gases emission reduction from Indonesian oil palm plantation: closing yield gap and expansion to low carbon stock lands</p> <p>Prof. Maine van Noordwijk, World Agroforestry Center, Nairobi, Kenya: The role of agroforestry in adaptation and mitigation to climate change</p>	
PARALLEL SESSION 3		
10:30-10:40	Micromorphological characteristics of soils developed on volcanic ash in Lembang Area, West Java, Indonesia (<i>E. Yatno, et al – ICALRD</i>) ID 602	Facilitator : Dr. A. Arivin Rivaie Secretary : Rachmat Abdul Gani
10:40-10:50	Soil characteristics and rice yields on newly cultivated and intensively cultivated acid sulphate tidal lands (<i>E. Maftuah, et al – ISARI</i>) ID 658	
10:50-11:00	Characteristics and land potential for sugarcane development in Blitar Regency, East Java Province (<i>M.M. Pratamaningsih, et al – ICALRD</i>) ID 668	
11:00-11.10	Differences in Andisols properties as affected by horticulture land use and pine forest of Lembang Sub District, West Java (<i>D.P. Hati, et al –ICALRD</i>) ID 684	
11:10-11:20	The use of botanical insecticide based on local resources to increase swamp rice yield in South Kalimantan. (<i>M.T. Sutriadi, et al –IAERI</i>) ID 830	
11:20 – 11.45	Discussions	

PARALLEL SESSION 4		
12:30-12:40	Spatial landuse planning for sustainable food crop areas development based on land resource information using land evaluation approach and GIS application (A case study of Pulang Pisau regency, Central Kalimantan) (<i>A. Bhermana, et al –AIAT of Central Kalimantan</i>) ID 719	Facilitator : Dr. Muhrizal Sarwani Secretary : Rachmat Abdul Gani
12:40-12:50	Evaluation of land suitability and factors influencing the development of shallots (<i>Allium cepa</i> L.) in North Padang Lawas, North Sumatera. (<i>Setia S. Girsang, et al – AIAT of North Sumatera</i>) ID 749	
12:50-13:00	Biophysical characteristics of dry-climate upland and agriculture development challenges in West Nusa Tenggara And East Nusa Tenggara Provinces (<i>Ahmad Suriadi, et al – AIAT of West Nusa Tenggara</i>) ID 750	
13:00-13:10	Cation ratio and its relationship with other soil nutrients of Java intensified lowland rice (<i>A. Kasno, et al – ISRI</i>) ID 773	
13:10-13:20	Physiological conditions of north sumatra local sheep at several districts in North Sumatra (<i>A.Destomo, et al – IRIAP</i>) ID 842	
13:20-13:45	Discussions	
PARALLEL SESSION 5		
14:00-14:10	Properties of soils from different landform and parent material in Kundur Island, Kepulauan Riau Province (A case study of Pulang Pisau regency, Central Kalimantan) (<i>P. Kricella, et al - ICALRD</i>) ID 846	Facilitator : Dr. Markus Anda Secretary : Mira Media
14:10-14:20	Contribution of sulfidic material in the substratum on the acidification of peat soils from central Kalimantan, Indonesia. (<i>A. Fahmi, et al – ISRI</i>) ID 852	
14:20-14:30	Mapping spatial distribution of carbon stock & thickness of tropical peatland using machine learning based on remote sensing: a case study in Lake Sentarum National Park Kapuas Hulu, West Kalimantan. (<i>F. Musthofa, et al – Ministry of Environment and Forestry, Bogor, Indonesia</i>) ID 860	

14:30-14:40	Assessing machine learning techniques for detailing soil map in semiarid tropical region. (<i>D. Cahyana, et al</i> – IPB University, Bogor, Indonesia) ID 926	
14:40-14:50	Polder system water management on non-tidal swamp area based on water balance analysis (<i>B. Kartiwa, et al</i> – IAHRI) ID 789	
14:50-15:15	Discussions	
PARALLEL SESSION 6		
15:30-15:40	Soil quality degradation under horticulture practices in volcanic slope soil, East Java – Indonesia. (<i>Kurniawan S, et al</i> – Brawijaya University) ID 790	Facilitator : Dr. Benito Secretary : Dariin Firda
15:40-15:50	Decresed lead metal in the soil with remediation treatment plus. (<i>W. Purbalisa, et al</i> – IAERI) ID 793	
15:50-16:00	Agronomic changes tolerance of soybean genotypes to waterlogged soil. (<i>A. Krisnawati, et al</i> – ILETRI) ID 709	
16:00-16:10	Productivity of forage crops as pasture in ex coal mining land during the rainy season. (<i>H. Hamini, et al</i> – IRAP) ID 802	
16:10-16:20	Comparison study of growth and yield of three soybean varieties on acid upland soil of South Lampung. (<i>D. Diptaningsari, et al</i> – AIAT of Lampung) ID 803	
16:20-16:45	Discussions	

Friday, 18 September 2020

PARALLEL SESSION 7		
08:00-08:10	Adaptation of new superior varieties for soybean early maturity climate change in rain - filled rice fields. (Y. Hartati, et al – AIAT of West Java) ID 804	Facilitator : Dr. Harmanto Secretary : R. Iman Muhardiono
08:10-08:20	Increasing yield of sweetcorn through application of mycorrhiza biofertilizer and additive intercropping with two peanut varieties. (W. Wangiyana, et al – University of Mataram) ID 807	
08:20-08:30	Essence, necessity, principle and technique of assessing land quality by using land quality index plus for sustainable tropical agriculture land management. (L.M Rahman, et al – IPB University) ID 817	
08:30-08:40	Turiman innovation dissemination strategy to improve cropping index. (R. Purnamayani, et al –ICATAD) ID 864	
08:40-08:50	Optimal irrigation at various soil types for soybean production. (A.Suriadi, et al – AIAT of West Nusa Tenggara) ID 869	
08:50-09:15	Discussions	
PARALLEL SESSION 8		
09:30-09:40	Variability of harvest time of vegetable at different four altitudes based on heat unit analysis. (Suciantini, et al – IAHRI) ID 822	Facilitator : Dr. Wiharjaka Secretary : R. Iman Muhardiono
09:40-09:50	Pollutant Management of chlorpyrifos insecticides residues on shallot agriculture Through remediations technology. (Poniman, et al – IAERI) ID 823	
09:50-10:00	Status of soil organic carbon and its management recommendation for rice plants at four experiment stations. (L.R. Widowati, et al – ISRI) ID 788	

10:00-10:10	Properties of peat soil formed in lacustrine plains surrounded by tectonic hills in Papua Highland (<i>P. A. Barus, et al – ICALRD</i>) ID 707	
10:10-10:20	The role of communal pasture as source of cattle feed: A case in Lar Badi, Sumbawa. (<i>M.I. Shiddhieqy, et al – ICARD</i>) ID 845	
10:20-10:30	Remote sensing and GIS application for mapping data base on sustainable agriculture land in Denpasar City. (<i>I. Lanya, et al – Udayana University</i>) ID 533	
10.30 – 11.00	Discussions	
PARALLEL SESSION 9		
13:00-13:10	Composition of media that promotes seedling growth and nodules of jengkol (<i>Pithecellobium lobatum Benth</i>) root. (<i>D. Emilda, et al – ITFRI</i>) ID 854	Facilitator : Dr. Setyono Hari Adi Secretary : Risqa Nurkhaida Septia Rakhma
13:10-13:20	Increasing of tidal swamp land productivity through the used of new superior rice varieties and the planting system. (<i>M. Hidayanto, et al – AIAT of East Kalimantan</i>) ID 857	
13:20-13:30	Developing and promoting bamboo agroforestry approach to support the community-based bamboo industry in Indonesia. (<i>D. Ekawati, et al –Ministry of Environment and Forestry, Bogor, Indonesia</i>) ID 859	
13:30-13:40	Analysis of limiting fators of RGL citrus fruit productivity (Study case in Pal VII Village, Bermani Ulu Raya Subdistrict, Rejang Lebong District). (<i>I.C. Siagian, et al – AIAT of Bengkulu</i>) ID 670	
13:40-13:50	Distribution of endosulfan insecticide residues on intensive shallot agriculture farming in Brebes Regency. (<i>Indratin, et al – IAERI</i>) ID 865	
13:50-14:15	Discussions	

PARALLEL SESSION 10		
14:30-14:40	Identification of organochlorine insecticide contamination on shallots land in Nganjuk Regency, East Java Province, Indonesia. (<i>Indratin, et al – IAERI</i>) ID 872	Facilitator : Prof. Hermansyah Secretary : Risqa Nurkhaida Septia Rakhma
14:40-14:50	Productivity of five herbaceous legumes species in the post tin mining area as source forage in Bangka Island. (<i>Sajimin, et al – IRIAP</i>) ID 875	
14:50-15:00	Genetic variability, heritability, and correlation for yield and yield components in waterlogging-tolerant hybrid maize. (<i>A. Muliadi, et al –ICERI</i>) ID 892	
15.00-15.10	Response of Andisols to intensive agricultural land uses: Implication on changes in P accumulation and colloidal surface charge. (<i>M. Anda, et al –ICALRD</i>) ID 844	
15.10:15:20	Developing sustainable smallholders of cinnamon (<i>Cinnamomum burmannii</i> Blume) by intercropping of patchouli (<i>Pogostemon cablin</i> Benth.) and coffee (<i>Coffea</i> sp.) in the Regency of Kerinci, the Province of Jambi. (<i>R.A. Permadi, et al –ISMCRI</i>) ID 818	
15.20-15.45	Discussions	
15.45- 16.15	Closing Ceremony	

AGENDA 1ST ICSTLM

SWCM: Soil, water, and crop management and the socio-economic dimensions

Wednesday, 16 September 2020

Time	Agenda	
08.30-09.15	Opening: MC Welcome speech: <i>General Director, IAARD</i> Opening and Welcome remark : <i>Minister of Agriculture</i>	
KEYNOTE (PLENARY SESSION 1)		
09:15-10:00	Moderator: Dr. Husnain (Director, Indonesian Center for Agricultural Land Resources Research and Development) Prof. Takashi Kosaki, President of IUSS: Soils in the humid tropic - Degradation processes and strategies for remediation	
PARALLEL SESSION 1		
10:15-10:25	The use of green super rice varieties and harvest waste in sustainable rice farming in tidal swamp land <i>(Susilawati, et al – AIAT Central Kalimantan)</i> ID: 643	Facilitator : Dr. Setiari Marwanto Secretary : Misnawati
10:25-10:35	Water saving irrigation management for mung bean in acid soil <i>(Hendri Sosiawan, et al – IAHRI)</i> ID:544	
10:35-10:45	Socio-economic aspects and carrying capacity of agricultural land resources to support agricultural strategic commodities development <i>(Mamat H.S, et al – ICALRD)</i> ID: 284	

10:45-10:55	Characteristic of private forest farmer as a source of landscape cultural information: A case studi in Java, Indonesia (<i>Maria Palmolina, et al – FOERDA</i>) ID: 306	
10:55-11:15	Discussions	
PARALLEL SESSION 2		
11:30-11:35	Invited Speaker : Dr. Gina P. Nilo (<i>Bureau of Soils and Water Management Laboratory Services Division, Philippines</i>)	Facilitator : Dr. Prama Yufdi IAARD Secretary : Misnawati
11:35-11:45	The in-situ inventory of natural enemies at the corn plantation experimental garden of Balitsereal (The Research Institute for Cereal Crops of Maros) (<i>M.Sudjak Saenong, et al – ICERI</i>) ID:334	
11:45-11:55	Distribution of pyrite depth and soil properties in fresh water swampland in North Candi Laras Sub-district, South Kalimantan Province (<i>R.Q. Muslim, et al – ICALRD</i>) ID: 669	
11:45-12:15	Discussion	
KEYNOTE (PLENARY SESSION 2)		
13:15-16:00	<p>Moderator: Prof. Budi Mulyanto (Chair, Indonesian Soil Science Society)</p> <p>Prof. Budiman Minasny, University of Sydney, Australia: Carbon dynamics of tropical soils and their implications to sustainable agriculture</p> <p>Dr. Jan Verhagen, Wageningen University & Research, Netherlands: Soil management for adaptation and mitigation of climate change</p> <p>Dr. Cornelia Rumpel, French National Centre for Scientific Research, France: The 4p 1000 initiative as multi-stakeholder platform to achieve organic carbon sequestration in tropical soils through sustainable practices</p>	

Thursday, 17 September 2020

Time	KEYNOTE (PLENARY SESSION 3)	
08:00-10:15	<p>Moderator: Dr. Haris Syahbuddin (Executive Secretary, Indonesian Agency for Agricultural Research and Development)</p> <p>Dr. Patricio Grassini, University of Nebraska-Lincoln, USA: Potential cereal production increase in Indonesia with current land and water resources</p> <p>Prof. Fahmuddin Agus, Indonesian Soil Research Institute: Greenhouse gases emission reduction from Indonesian oil palm plantation: closing yield gap and expansion to low carbon stock lands</p> <p>Prof. Maine van Noordwijk, World Agroforestry Center, Nairobi, Kenya: The role of agroforestry in adaptation and mitigation to climate change</p>	
PARALLEL SESSION 3		
10:30-10:40	Multistoried Agroforestry system on Gaharu (<i>Gyrinops Versteegii</i> (Gilg.) Domke) Plantations in Flores Island East Nusa Tenggara (<i>R Iryadi, et al – LIPI</i>) ID: 416	Facilitator : Prof. Irsal Las Secretary : Erwinda
10:40-10:50	Flood Vulnerability Impact for Food Estate Potential in Central Kalimantan, Indonesia (<i>I. Muhardiono, et al – IAHRI</i>) ID: 439	
10:50-11:00	Application Of Agricultural Technology Supporting Increasing Of Planting Index SwampLand Ecosystem In Riau Province (<i>Anis Fahri, et al – AIAT Riau</i>) ID: 476	
11:00-11:10	The adaptability of rice varieties on tidal swampland in South Kalimantan (<i>Koesrini, et al – ASARI</i>) ID: 488	
11:10-11:20	Identification of Cobalt in Karawang District and Bekasi District (<i>D M W Paputri, et al – IAERI</i>) ID: 838	
11:20-11:45	Discussion	

PARALLEL SESSION 4		
12:30-12:40	Seed treatment using bio-fertilizer to improve plant growth and yield performances of upland rice cultivars under various planting density (<i>A. Saryoko, et al – AIAT Banten</i>) ID: 490	Facilitator : Prof Tahlim Sudaryanto Secretary : Rufaidah Qonita
12:40-12:50	Groundwater Table, Peat Subsidence and Carbon Emission Impacted from Deforestation in Tropical Peatlands (<i>I. Basuki, et al - Winrock International</i>) ID: 493	
12:50-13:00	Conservation agriculture in semi-arid area of Indonesia: lesson learnt to increase maize production and farmers awareness on environmental friendly land management (<i>Ngongo Y., et al – AIAT ENT</i>) ID: 509	
13:00-13:10	Planting Time Optimization on Tidal Agricultural Land (<i>S.H. Adi, et al – IAHRI</i>) ID: 408	
13:10-13:20	Peat land management using ameliorant for oil palm agronomic performances (<i>Salwati, et al – AIAT Riau</i>) ID: 539	
13:20-13:45	Discussion	
PARALLEL SESSION 5		
14:00-14:10	Sustaining porang production for improving farmers' income (<i>S K Dermoredjo, et al – ICASEPS</i>) ID: 597	Facilitator : Prof. Hasil Sembiring Secretary : Misnawati
14:10-14:20	Level and distribution of paraquat and carbosulfan residues in soil, surface water, and plant from Indonesia (<i>A N Ardiwinata, et al – IAERI</i>) ID: 606	
14:20-14:30	Controlling maize weevil in corn plants by improving cultivation technology and postharvest handling (<i>Ayyub Arrahman, et al – ICERI</i>) ID: 608	
14:30-14:40	Challenges of soybean self-sufficiency policy in Indonesia (<i>B Sayaka, et al – ICASEPS</i>) ID: 610	
14:40-14:50	Salinity of paddy field in main landforms in Indramayu Regency, West Java (<i>M.Hikmat, et al – ICALRD</i>) ID: 611	
14:50-15:15	Discussion	

PARALLEL SESION 6		
15:30-15:40	Invited Speaker : Dr. Tan Ngai Paing (<i>University of Putra Malaysia</i>)	Facilitator : Dr. Abderrahim Nassir Secretary : Misnawati
15:40-15:50	Invited speaker : Dr. Husnain, (<i>Indonesian Center for Land Resource Research and Development</i>) Residual effects of rock phosphate on soybean growth at Tidal swampland South Kalimantan	
15:50-16:00	Direct Application of Reactive Phosphate Rock on Improving Maize Yield in Tidal Swampland (<i>A F Siregar, et al – ISRI</i>) ID: 784	
16:00-16:10	Integrated nutrition management on irrigated rice fields to increase maize productivity (<i>I W Suastika, et al – ISRI</i>) ID: 850	
16:10-16:20	Water management and application of organic matter for rice cultivation on acid sulphate soil in south sumatera, Indonesia (<i>W A Yusuf, et al – ISARI</i>) ID: 406	
16:20-16:45	Discussion	

Friday, 18 September 2020

PARALLEL SESION 7		
08:00-08:10	Invited Speaker : Prof. Tsugiyuki Masunaga (<i>Shimane University Japan</i>) Role of Si for Stabilization and Extension of Rice Cultivation in Tropical Asia and Africa : Current situation and possible measure for better Si management	Facilitator : Dr. Ladiyani R W Secretary : Rufaidah Qonita
08:10-08:20	A method for production of pure silica as fertilizer from industrial waste material (<i>L Anggria, et al – ISRI</i>) ID: 930	
08:20-08:30	Magnesium and silicon fertilizer application on promoting rice growth and production (<i>I A Sipahutar, et al – ISRI</i>) ID: 794	
08:30-08:40	Response of rice plant to silicon addition in Oxisols (<i>A F Siregar, et al – ISRI</i>) ID: 931	
08:40-08:50	optimazation of tidal swampland to enhance farmer’s income through the implementation of technology innovation “Panca Kelola” in Central Kalimantan Indonesia (<i>Y R Darsani, et al – ISARI</i>) ID: 705	
08:50-09.15	Discussion	
PARALLEL SESION 8		
09:30-09:40	Identified diseases would threaten on expansion of porang (<i>Amorphophallus muellery Blume</i>) cultivation in Indonesia (<i>M Soedarjo, et al – ILETRI</i>) ID: 679	Facilitator : Prof Kurniatun Khairiah Secretary : Risqa Nurkhaidah
09:40-09:50	Soil destruction level at vegetables cultivation land upstream of Cikapundung Sub Watershed and its alternative management to be sustainable (<i>Nana Sutrisna, et al – AIAT West Java</i>) <i>ID: 721</i>	
09:50-10:00	The Response of lansuna red onion varieties (<i>Allium ascolonicum L</i>) to bulbs size and the use of plant spacing different in Minahasa District (<i>Olvie Grietjie Tandi, et al – AIAT North Sulawesi</i>) ID: 726	
10:00-10:10	The Potency of plant growth-promoting microbes from indigenous plant of sulfate acid soil ecosystem in South Kalimantan (<i>E Yuniarti, et al – ISRI</i>) <i>ID: 729</i>	

10:10-10:20	Farmers' perception towards water and soil management in the irrigated paddy field in North Sumatera, Indonesia (<i>Wasito, et al – IAARD</i>) ID:730	
10:20-10:30	Variability of soil mineralogical composition in Bareh Solok Central paddy field as affected by material eruption from Mt. Talang (<i>E Suryani, et al – ICALRD</i>) ID: 671	
10:30-11:00	Discussion	
	PARALLEL SESION 9	
13:00-13:10	Habitat characteristics and population of <i>Syzygium cumini</i> l in private forest and customary forest of Yogyakarta (<i>Aris Sudomo – FOERDA</i>) ID: 739	Facilitator : Dr. Syaiful Anwar Secretary : Dariin Firdha
13:10-13:20	Response of shallots growth and yield to phosphate fertilizer and Trichoderma application on peat soil (<i>Suparman, et al – AIAT Central Kalimantan</i>) ID: 751	
13:20-13:30	Farming conservation management on potato cultivation in sloping upland (<i>Zainal Arifin, et al – AIAT East Java</i>) ID: 752	
13:30-13:40	The effect of ameliorant on peat soil properties and shallots productivity in peatlands (<i>Maswar, et al – ISRI</i>) ID:758	
13:40-13:50	The production of oil palm (<i>Elaeis guineensis</i> Jacq.) under the land application of POME (Palm Oil Mill Effluent) at oil palm plantation in Indonesia (<i>Pujono H R, et al – University of Lampung</i>) ID:759	
13:50-14:15	Discussion	
	PARALLEL SESION 10	
14:30-14:40	Improving the quality of acid soils to increase soybean yields and farmer's incomes (<i>Endriani, et al – AIAT Lampung</i>) ID 774	Facilitator : Prof. Supriadi Secretary : R. Iman Muhardiono
14:40-14:50	Progress of paludiculture project in supporting peatland ecosystem restoration in Indonesia (<i>Budiman I et al. – WRI</i>) ID 779	

14:50-15:00	In vitro effectiveness of heavy metals resistant bacteria to degrade multi-metals (<i>R C B Ginting, et al – ISRI</i>) <i>ID 932</i>	
15.00-15.10	Land and resources management of shallots farming in the dry and rainy season: case study in the highlands of Solok, West Sumatera (<i>A M Kiloes, et al – ICHORD</i>) <i>ID 582</i>	
15.10:15:20	Evaluation of results of corn local maize Islands Tanimbar Maluku Islands (<i>M. Pasireron, et al – AIAT Maluku</i>) <i>ID 713</i>	
15.20-15.45	Discussion	
15.45-16:15	Closing Ceremony	

AGENDA 1ST ICSTLM

CC: Adaptation and mitigation to climate change

Wednesday, 16 September 2020

Time	Agenda	
08.30-09.15	Opening: MC Welcome speech: <i>General Director, IAARD</i> Opening and Welcome remark : <i>Minister of Agriculture</i>	
KEYNOTE (PLENARY SESSION 1)		
09:15-10:00	Moderator: Dr. Husnain (Director, Indonesian Center for Agricultural Land Resources Research and Development) Prof. Takashi Kosaki, President of IUSS: Soils in the humid tropic - Degradation processes and strategies for remediation	
PARALLEL SESSION 1		
10:15-10:25	Invited speaker : Prof. Dr. Supiandi Sabiham (<i>Peat Society of Indonesia</i>) Seasonal groundwater level in drained peatland control peat respiration and CO2 absorption by crops under mature oil palm plantation	Facilitator : Dr. Asmarhamsyah Secretary : Dila Aksani
10:25-10:35	Anticipating the impact of climate change in agricultural sector through implementation of solar water pump irrigation system using drip irrigation (<i>Popi Redjekiningrum, et al – IAHRI</i>) ID 316	
10:35-10:45	The use of the dry-spell seasonal forecast in crop management decisions (<i>Elza surmaini, et al – IAHRI</i>) ID 322	
10:45-10:55	Assessing the vulnerability of food farming system to support climate change adaptation : case study in Java, Indonesia (<i>W. Estiningtyas, et al – IAHRI</i>) ID 392	
10:55-11:15	Discussions	

PARALLEL SESSION 2		
11:30-11:35	Contribution of CO ₂ emission from litter decomposition in an oil palm plantation on tropical peatland (<i>N Wakhid, et al – ISARI</i>) ID 928	Facilitator : Prof. Supiandi Sabiham Secretary : Dila Aksani
11:35-11:45	Adaptation and mitigation strategies for impacts and efforts of climate change (<i>Widyawati, et al – AIAT East Kalimantan</i>) ID 405	
11:45-11:55	Assessing freshwater water balance in Cimanuk River Basin (<i>Muchamad Wahyu Trinugroho, et al – IAARD</i>) ID 498	
KEYNOTE (PLENARY SESSION 2)		
13:15-16:00	<p>Moderator: Prof. Budi Mulyanto (Chair, Indonesian Soil Science Society)</p> <p>Prof. Budiman Minasny, University of Sydney, Australia: Carbon dynamics of tropical soils and their implications to sustainable agriculture</p> <p>Dr. Jan Verhagen, Wageningen University & Research, Netherlands: Soil management for adaptation and mitigation of climate change</p> <p>Dr. Cornelia Rumpel, French National Centre for Scientific Research, France: The 4p 1000 initiative as multi-stakeholder platform to achieve organic carbon sequestration in tropical soils through sustainable practices</p>	

Thursday, 17 September 2020

Time	KEYNOTE (PLENARY SESSION 3)	
08:00-10:15	<p>Moderator: Dr. Haris Syahbuddin (Executive Secretary, Indonesian Agency for Agricultural Research and Development)</p> <p>Dr. Patricio Grassini, University of Nebraska-Lincoln, USA: Potential cereal production increase in Indonesia with current land and water resources</p> <p>Prof. Fahmuddin Agus, Indonesian Soil Research Institute: Greenhouse gases emission reduction from Indonesian oil palm plantation: closing yield gap and expansion to low carbon stock lands</p> <p>Prof. Maine van Noordwijk, World Agroforestry Center, Nairobi, Kenya: The role of agroforestry in adaptation and mitigation to climate change</p>	
PARALLEL SESSION 3		
10:30-10:40	Effects of rice cultivar on the net greenhouse gas emission under continuous flooding and alternate wetting and drying irrigations in paddy field (<i>A Pramono, et al – IAERI</i>) ID 504	Facilitator : Prof. Nurcholis Secretary : Rufaidah Qonita
12:40-12:50	Lessons learned from Europe's peat management regimes (<i>Delima H. Azhari, et al – ICASEPS</i>) ID 558	
12:50-13:00	Design and development of system information for tractors distribution based on android in Maros Regency of South Sulawesi (<i>A B Kresna, et al – Hasanuddin University</i>) ID 605	
13:00-13:10	Soil CO ₂ emissions from tropical peat in a strong El Niño year was higher than in a normal year (<i>N Wakhid, et al – ISARI</i>) ID 586	
13:10-13:20	Excessive amount of rainfall decreases oil palm yield on well- drained peatland (<i>S. Marwanto, et al – ISRI</i>) ID 590	

13:20-13:45	Discussion	
PARALLEL SESSION 4		
12:30-12:40	Dynamics of carbon content of peat soils from several landuse on the Kampar Peninsula, Riau Province, Indonesia (<i>Suratman, et al – ICALRD</i>) ID 615	Facilitator : Dr. Edi Husen Secretary : Mira Media Pratamaningsih
12:40-12:50	Rainwater harvesting technology to increase cropping index under perennial crops (<i>Nani Heryani, et al – IAHRI</i>) ID 624	
12:50-13:00	Trend analysis of agricultural water supply and demand for water conservation and climate change anticipation (<i>Risqa Nurkhaida, et al – IAHRI</i>) ID 647	
13:00-13:10	Effects of residual biochar amendment on soil chemical properties, nutrient uptake, crop yield and N ₂ O emissions reduction in acidic upland rice of East Lampung (<i>Jubaedah, et al – ISRI</i>) ID 650	
13:10-13:20	Climate change impact on rice productivity in the rain land, Merauke District, Papua (<i>P A Beding, et al – AIAT Papua</i>) ID 664	
13:20-13:45	Discussion	
PARALLEL SESSION 5		
14:00-14:10	Planting time options as alternative to rice cropping system in Bogor, West Java (<i>E R Dewi, et al – IAHRI</i>) ID 666	Facilitator : Dr. Asmarhamsyah Secretary : Diah Puspita Hati
14:10-14:20	Mitigation of pyrite oxidation impact in tidal swamp management for agriculture (<i>I Gusti Made, et al – ISRI</i>) ID 682	
14:20-14:30	Selection of chili and tomato cultivars for mitigation of climate change and sustainable production (<i>Lina Aisyawati, et al – AIAT East Java</i>) ID 703	

14:30-14:40	Planting time planning of crops through water balance approaches and rainfall prediction information (<i>Y Apriyana, et al – IAHRI</i>) ID 717	
14:40-14:50	Water filled-pore space and soil temperature related to N ₂ O fluxes from Shallot cultivated in rainy and dry season (<i>M Ariani, et al – IAERI</i>) ID 733	
14:50-15:15	Discussion	
PARALLEL SESSION 6		
15:30-15:40	CH ₄ emissions and yield from submerged tolerance rice Varieties (<i>Hesti Yulianingrum, et al – IAERI</i>) ID 735	Facilitator : Prof. Sri Nuryani Secretary : Dila Aksani
15:40-15:50	Quantifying the reduction of greenhouse gas emission from manure management through anaerobic digester in Central Java (<i>Sarah, et al – IAERI</i>) ID 741	
15:50-16:00	Methane production from livestock manure (<i>C Hidayat, et al – IRIAP</i>) ID 744	
16:00-16:10	Nutrient content and greenhouse gas emissions of goat manure compost processed without and with decomposer (<i>W Puastuti, et al – IRIAP</i>) ID 760	
16:10-16:20	Heavy metal pollution assessment in paddy rice fields and horticulture fields in Bandung district (<i>Sukarjo, et al – IAERI</i>) ID 768	
16:20-16:45	Discussion	

Friday, 18 September 2020

PARALLEL SESSION 7		
08:00-08:10	Greenhouse gas emissions reduction and rice yield potential under bio-fertilizer application (<i>E Yulianingsih, et al – IAERI</i>) ID 769	Facilitator : Dr. Ir. Bess Tiesnamurti Secretary : Dila Aksani
08:10-08:20	Developing of the swamp planting calendar based on the hydrological model application (<i>s H Adi, et al – IAHRI</i>) ID 777	
08:20-08:30	Adaptation to and mitigation of climate change in the Bangsri Micro-watershed, East Java, Indonesia (<i>K Hairiyah, et al – Brawijaya University</i>) ID 894	
08:30-08:40	The resilience of the agricultural system in the mids. of climate change issues: Case of Labian Village, West Kalimantan (<i>Ratih Solichia Maharani, et al – Kyoto University</i>) ID 841	
08:40-08:50	Utilization of organic fertilizer in response to mitigate CO ₂ emission (<i>D P Widiastuti, et al – AIAT West Kalimantan</i>) ID 821	
08:50-09.15	Discussion	
PARALLEL SESION 8		
09:30-09:40	Sheep's Gastrointestinal Helminth Infection at Several Districts in North Sumatera (<i>A Febretrisiana, et al – IRIAP</i>) ID 829	Facilitator : Dr. Dwi Purnanto Ariyanto Secretary : Rufaidah Qonita
09:40-09:50	Mitigating N ₂ O emission from chili plantation (<i>Capsicum annum</i>) with organic based fertiliser and silver-black plastic mulches on the integrated pest management field school – case study in Rembang and Sukabumi Regencies (<i>A Hervani, et al – IAHRI</i>)	

	ID 832	
09:50-10:00	Analysis of monthly rainfall to study planting time of paddy in swamp area (<i>D Firda, et al – IAHRI</i>) ID 835	
10:00-10:10	Enteric methane emission and growth rate of three different breeds of beef cattle fed on oil palm frond or grass basal diet (<i>D Yulistiani, et al – IRIAP</i>) ID 813	
10:10-10:20	Yield and photosynthetic rate of wheat under continuously high temperature (<i>A Zubaidi, et al – Mataram University</i>) ID 862	
10:20-10:30	Remediation of arsenic-contaminated soil by chelating agents in shallot plantation land in Bima, West Nusa Tenggara (<i>Hidayatuz Zu'amah, et al – IAERI</i>) ID 871	
10:30-11:00	Discussion	
	PARALLEL SESION 9	
13:00-13:10	Cropping calendar analysis for dry season 2020 in Indonesia (<i>A Pramudia, et al – IAHRI</i>) ID 787	Facilitator : Dr. Asep Nugraha Secretary : Rufaidah Qonita
13:10-13.20	The concentration of enteric methane from cattle fed different fiber level (<i>A H Krishna, et al – BCATRES</i>) ID 902	
13:20-13:30	Space-based drought analysis to support agricultural insurance facing climate change (<i>R Shofiyati, et al – ICALRD</i>) ID 911	
13:30-13:40	Estimated time for supply and drainage of water for rice planting in freshwater swampland (<i>V Mayasari, et al – ISARI</i>) ID 919	
13:40-13:50	Soil amelioration using steel slag in drained peatland under oil palm plantation increases CO ₂ emission (<i>S Marwanto – ISRI</i>) ID 924	
13:50-14:15	Discussion	
	PARALLEL SESION 10	
14:30-14:40	Productivity and morphology of Benggala Grass Riversdale cultivar (<i>Panicum maximum cv Riversdale</i>) on acid soils (<i>Achmad Fanindj, et al – IRIAP</i>)	Facilitator : Dr. Helena Lina Susilawati Secretary : Misnawati

	ID 897	
14:40-14:50	Study of utilization of ex-tin mining land for agriculture: analysis of land potential and constraints faced (<i>Adang Agustian, et al - ICASEPS</i>) ID 898	
14:50-15:00	Response of planting methods to rice productivity and greenhouse gas emissions (<i>H L Susilawati, et al - IAERI</i>) ID 825	
15.00-15.10	The effect of sheet-pipe technology application on soil properties, rice growth, yield, and prospect to increase planting index (<i>P Sasmita, et al - ICRR</i>) ID 722	
15.10:15:20	Anticipating the impact of climate change through the adaptation of new early and drought the adaptation of new early and drought tolerant rice varieties in Majalengka Regency (<i>I Noviana et al - Assessment Institut for Agriculture Technology, Bandung</i>) ID 810	
15.20-15.45		Discussion
15:45- 16:15		Closing Ceremony

AGENDA 1ST ICSTLM

SQA: Soil quality assessment: morphological, physical, biological, chemical and geological aspects to support agricultural sustainability

Wednesday, 16 September 2020

Time	Agenda	
08.30-09.15	Opening: MC Welcome speech: <i>General Director, IAARD</i> Opening and Welcome remark : <i>Minister of Agriculture</i>	
KEYNOTE (PLENARY SESSION 1)		
09:15-10:00	Moderator: Dr. Husnain (Director, Indonesian Center for Agricultural Land Resources Research and Development) Prof. Takashi Kosaki, President of IUSS: Soils in the humid tropic - Degradation processes and strategies for remediation	
PARALLEL SESSION 1		
10:15-10:25	Sustainability analysis for rice and duck farming in Wetland Hulu Sungai Utara Regency, South Kalimantan. (<i>E.S. Rohaeni, et al – ICAD</i>) <i>ID: 177</i>	Facilitator : Dr. Haryono Secretary : Erwinda
Presenter 10:25-10:35	Growth and yield improvement of maize by ACC deaminase producing bacteria under dry soil conditions. (<i>E. Husen, et al – ISRI</i>) <i>ID: 338</i>	
10:35-10:45	Potential bacteria capable of remediating mercury contaminated soils. (<i>R.C.B Ginting, et al – ISRI</i>) <i>ID: 345</i>	

10:45-10:55	Effectivity of the application ameliorant, organic matter, biofertilizer, and their combinations in increasing the productivity of Ultisol soil and yields of rice and maize crops. <i>(Septiyana, et al – ISRI)</i> ID: 921	
10:55-11:15	Discussions	
PARALLEL SESSION 2		
11:30-11:35	Application of ameliorants for of ex-tin mining soil improvement and increasing corn (<i>Zea mays</i>) yield. <i>(APW Etika, et al – ICATAD)</i> ID: 868	Facilitator : Dr. Anne Nurbaiti Secretary : Erwinda
11:35-11:45	Application of biofertilizers to increase growth of upland rice, soil nitrogen and fertilizers efficiency. <i>(B.N Fitriatin, et al –Universitas Padjadjaran)</i> ID: 466	
11:45_11:55	Application of liquid organic fertilizer and inorganic fertilizer on growth and production of hybrid maize. <i>(Maintang, et al – AIAT of South Sulawesi)</i> ID: 487	
11:55-12:15	Discussions	
KEYNOTE (PLENARY SESSION 2)		
13:15-16:00	<p>Moderator: Prof. Budi Mulyanto (Chair, Indonesian Soil Science Society)</p> <p>Prof. Budiman Minasny, University of Sydney, Australia: Carbon dynamics of tropical soils and their implications to sustainable agriculture</p> <p>Dr. Jan Verhagen, Wageningen University & Research, Netherlands: Soil management for adaptation and mitigation of climate change</p> <p>Dr. Cornelia Rumpel, French National Centre for Scientific Research, France: The 4p 1000 initiative as multi-stakeholder platform to achieve organic carbon sequestration in tropical soils through sustainable practices</p>	

Thursday, 17 September 2020

Time	KEYNOTE (PLENARY SESSION 3)	
08:00-10:15	<p>Moderator: Dr. Haris Syahbuddin (Executive Secretary, Indonesian Agency for Agricultural Research and Development)</p> <p>Dr. Patricio Grassini, University of Nebraska-Lincoln, USA: Potential cereal production increase in Indonesia with current land and water resources</p> <p>Prof. Fahmuddin Agus, Indonesian Soil Research Institute: Greenhouse gases emission reduction from Indonesian oil palm plantation: closing yield gap and expansion to low carbon stock lands</p> <p>Prof. Maine van Noordwijk, World Agroforestry Center, Nairobi, Kenya: The role of agroforestry in adaptation and mitigation to climate change</p>	
PARALLEL SESSION 3		
10:30-10:40	Adapting land management by conserving water resources potency for sustainable strategic rice crop systems in Kerinci. (<i>L. Izhar, et al – AIAT of Jambi</i>) ID 510	Facilitator : Prof. Tjeppey <u>sudjana</u> Secretary : Dariin Firda
10:40-10:50	Improving productivity of rice yield on tidal swampalnd with soil amandement. (<i>M. Alwi, et al – ISARI</i>) ID 494	
10:50-11:00	Improving irrigated agriculture through integrated water resources management in Pusur Watershed, Central Java. (<i>A. Hamdani, et al –IAHRI</i>) ID 496	
11:00-11.10	The ability of microbes to solubilize hardly soluble phosphorous and potassium from various sources. (<i>A.N.Flatian, et al –National Nuclear Energy Agency, Jakarta, Indonesia</i>) ID 525	
11:10-11:20	Improvement of Robusta coffee performance with conservation and fertilizer treatment in Air Nanningan District, Tanggamus Regency, Lampung. (<i>N. Wardani, et al – AIAT of Lampung</i>) ID 660	
11:20 – 11.45	Discussions	

PARALLEL SESSION 4		
12:30-12:40	Invited Speaker : Mrs. Lucrezia Caon (<i>FAO</i>) Strengthening tropical soil data base	Facilitator : Dr. Eko Hanudin Secretary : R. Iman Muhardiono
12:40-12:50	Water management with insulated drainage in swamp land (Case Study of Geragai Agricultural Techno Park, Jambi Province). (<i>J. Hendri, et al –AIAT of Jambi</i>) <i>ID 553</i>	
12:50-13:00	Effects of peat fires on soil chemical and physical properties: a case study in South Sumatra. (<i>D. Sulaeman, et al – World Resources Institute Indonesia</i>) <i>ID 554</i>	
13:00-13:10	Addition of biochar to Urea and urine fertilizer for improving soil chemical properties and maize yield in Acid upland, East Lampung. (<i>N.L Nurida, et al –ISRI</i>) <i>ID 578</i>	
13:10-13:20	Application of organic and biofertilizers to increase soil biota diversity and vegetables production. (<i>W. Hartatik, et al – IAARD</i>) <i>ID 588</i>	
13:20-13:45	Discussions	
PARALLEL SESSION 5		
Invited speaker/presenter 14:00-14:10	Application soil conditioner improve soil properties, nutrient uptake, growth and production of paddy field. (<i>G.A Nugroho, et al - Universitas Brawijaya, Malang, Indonesia</i>) <i>ID: 874</i>	Facilitator : Dr. Suwardi Secretary : R. Iman Muhardiono
Presenter 14:10-14:20	Improving rice plant uptake on P and Si with Si materials application in Ultisols. (<i>L. Anggria, et al - ISRI</i>) <i>ID: 592</i>	
14:20-14:30	Effectiveness of rice straw with biodecomposer and biofertilizer application in new land clearing in Merauke, Papua. (<i>H.S Wulanningtyas, et al – AIAT of Papua</i>) <i>ID: 601</i>	
14:30-14:40	Increasing productivity of rice through control of iron toxicity at acid sulfate soils of tidal swampland. (<i>I. Khairullah, et al – ISARI</i>) <i>ID: 609</i>	

14:40-14:50	The distribution and characteristics of peat lands in Central and South Bangka Regencies, Bangka Belitung Islands Province. (<i>R.B Heryanto, et al –ICALRD</i>) <i>ID: 612</i>	
14:50-15:15	Discussions	
PARALLEL SESSION 6		
15:30-15:40	Invited Speaker : Dr. Christian Hartmann (<i>Institute de Recherche pour le Development/RD, France</i>) Benefit of Organic Amendements on Development and Yield of Maize Submitted or not to Water Stressing Conditions (Column Experiment)	Facilitator : Prof. Ainin Nastiti Secretary : Erwinda
Presenter 15:40-15:50	Difference of soil tillage and application of organic fertilizers on soil water content and yield of upland rice. (<i>J. Barus, et al –AIAT of Lampung</i>) <i>ID: 628</i>	
15:50-16:00	Nutrient balances under organic rice farming system as affected by different sources of organic fertilizers in Central Java, Indonesia. (<i>D. Setyorini, et al – ISRI</i>) <i>ID: 641</i>	
16:00-16:10	The potency of sub-micron dolomite fertilizer in reducing yellow latex contamination in mangosteen fruits. (<i>Martias, et al – ITFRI</i>) <i>ID: 477</i>	
16:10-16:20	Application of mulch and soil ameliorant for increasing soil productivity and its financial analysis on shallots farming in the upland. (U. Haryati, et al – ISRI) <i>ID: 655</i>	
16:20-16:45	Discussions	

Friday, 18 September 2020

PARALLEL SESSION 7		
08:00-08:10	<p>Invited Speaker: Ms. Nopmanee Suvannang, (<i>LDD, Thailand, GLOSOLAN chair</i>) The Global Soil Laboratory Network (GLOSOLAN): An Essential tool for relevant recommendations on sustainable soil management</p>	Facilitator : Dr. Dwi Setyawan Secretary : Erwinda
08:10-08:20	Technology alternative for management of paddy field which exposed to natural stone industry wastewater in Cirebon Regency. (<i>B.Susanto, et al –AIAT of West Java</i>) <i>ID: 667</i>	
08:20-08:30	Effectiveness the combination of organonitrofos and inorganic fertilizers on the changes of soil chemical properties and the yields of cucumber plant (<i>Cucumis sativus</i> L.) in ultisols soil. (<i>Dermiyati, et al – University of Lampung</i>) <i>ID: 672</i>	
08:30-08:40	Effectiveness of biofertilizer formula on soil chemical properties and shallot productivity in tidal swamp land. (<i>Mukhlis, et al – ISARI</i>) <i>ID: 704</i>	
08:40-08:50	The use of soil ameliorant to improve soil quality and crop productivity of degraded semi arid upland in Gunung Kidul, Yogyakarta, Indonesia (<i>Ai Dariah et al-ISRI</i>) <i>ID 711</i>	
08:50-09.15	Discussions	
PARALLEL SESSION 8		
09:30-09:40	Long-term impact of single biochar and compost applications. (L.S. Schnee, et al –University of Bremen) <i>ID: 725</i>	Facilitator : Dr. Afra D. Makalew Secretary : Erwinda
09:40-09:50	The effect of fly ash application to acacia growth and heavy metals leaching on peatland. (<i>I.G.M Subiksa, et al – ISRI</i>) <i>ID: 731</i>	
09:50-10:00	The impact on paddy rice water availability in Indonesia based on projected climate change scenario. (<i>Misnawati, et al – IAHRI</i>) <i>ID: 732</i>	

10:00-10:10	Red chilli performance on gliocompost biofertilizer application in acid dryland. (<i>L. Pramudyani, et al –AIAT of South Kalimantan</i>) <i>ID: 743</i>	
10:10-10:20	Rice yield relationship to soil physics and factors affected the productivity of tidal swamp rice in South Sumatra. (<i>S.S Girsang, et al –AIAT of North Sumatera</i>) <i>ID:747</i>	
10:20-10:30	The cellulolytic activity and symbiotic potential of dark septate endophytic fungus <i>Phialocephala fortinii</i> to promote non-mycorrhizal plants growth. (<i>Surono, et al - ISRI</i>) <i>ID: 756</i>	
10.30 – 11.00	Discussions	
PARALLEL SESSION 9		
13:00-13:10	Exploration of Mycorrhiza from Lombok soils and their effect on sorghum plants. (Nurrobifahmi, et al – BATAN) <i>ID: 762</i>	Facilitator : Dr. Adha Fatma Siregar Secretary : Diah Puspita Hati
13:10-13.20	Amelioration to improve soil chemical properties and rice yields in actual acid sulphate soils. (<i>E. Maftuah, et al - ISARI</i>) <i>ID: 766</i>	
13:20-13:30	Amelioration and variety selection to increase shallot yield in peatlands. (<i>Y. Lestari, et al - ISARI</i>) <i>ID: 770</i>	
13:30-13:40	Soil fertility evaluation and quality of gambier (<i>Uncaria gambir</i> Roxb) in Kundur, Kepulauan Riau. (<i>Asmarhansyah, et al - ICALRD</i>) <i>ID: 771</i>	
13:40-13:50	The effect of extension towards community knowledge in peatland management: Case in Rasau Jaya Village, Kubu Raya, West Kalimantan. (<i>Sanudin, et al - Agroforestry Technology Research and Development Institute</i>) <i>ID 772</i>	
13:50-14:15	Discussions	

PARALLEL SESSION 10		
14:30-14:40	Integrated farming system of cattle and oil palms plantation increasing population and diversity of soil fauna in ultisols soils. (<i>A. Niswati, et al – University of Lampung</i>) (ID: 776)	Facilitator : Dr. Setiari Secretary : Diah Puspita Hati
14:40-14:50	Preliminary study of methane oxidizing bacteria isolation and selection on three rice agroecosystems. (<i>T.A. Adriany, et al – IAERI</i>) ID: 780	
14:50-15:00	The effectiveness of compound and single fertilizer on the growth of cofdee seedling in the nursery (<i>Nurjaya, Heri Wibowo dan Tia Rostaman</i>) ID: 923	
15.00-15.10	Dynamics of acidity and electrical conductivity due to seawater amelioration in total reclaimed acid sulphate soils, South Kalimantan (<i>V Mayasari & Y Lestari</i>) ID 775	
15.10:15:20	Optimizing dry land through the implementation of maize and rice multiple cropping system in Pemalang District. (<i>F.D. Arianti, et al –AIAT of Central Java</i>) ID 819	
15.20-15.45	Discussions	
15:45- 16:15	Closing Ceremony	

AGENDA 1ST ICSTLM

DPA: Digital and precision agriculture

Wednesday, 16 September 2020

Time	Agenda	
08.30-09.15	Opening: MC Welcome speech: <i>General Director, IAARD</i> Opening and Welcome remark : <i>Minister of Agriculture</i>	
KEYNOTE (PLENARY SESSION 1)		
09:15-10:00	Moderator: Dr. Husnain (Director, Indonesian Center for Agricultural Land Resources Research and Development) Prof. Takashi Kosaki, President of IUSS: Soils in the humid tropic - Degradation processes and strategies for remediation	
PARALLEL SESSION 1		
10:15-10:25	Invited Speaker : Dr. Kanika Singh (<i>University of Sydney</i>) Big Data for Improved Decisions for The Bussiness of Farming	Facilitator : Dr. Surono Secretary : Mira Media
10:25-10:35	Design an IoT-based control of field irrigation system. (<i>E.R. Widjaya, et al – ICAERD</i>) ID 440	
10:35-10:45	The effect of the number of rows and varieties of soybean on growth and yield of soybean in intercropping of soybean and corn. (<i>H. Hafid, et al – Hasanuddin University</i>) ID 723	
10:45-10:55	Soil erosion prediction in Cilebak – Cirasea Micro Watershed, Indonesia (<i>R.D. Yustika, et al – ISRI</i>) ID 783	
10:55-11:15	Discussions	

PARALLEL SESSION 2		
11:30-11:35	Soil organic carbon and total nitrogen dynamics in paddy soils on the Java Island, Indonesia (<i>Heri Wibowo, et al – ISRI</i>) ID 884	Facilitator : Prof. Tualar Simarmata Secretary : Risqa Nurkhaidah
11:35-11:45	Model development of sustainable wetland rice farming based on rice estate community and smart farming. (L.M. Rachman, <i>et al – Expert Staff of IPB University</i>) ID 796	
11:45_11:55	Statistical model for remediation plan of endosulfan- contaminated lowland rice fields with agricultural waste. (<i>E.S. Harsanti, et al – IAERI</i>) ID 824	
11:55-12:15	Discussions	
KEYNOTE (PLENARY SESSION 2)		
13:15-16:00	<p>Moderator: Prof. Budi Mulyanto (Chair, Indonesian Soil Science Society)</p> <p>Prof. Budiman Minasny, University of Sydney, Australia: Carbon dynamics of tropical soils and their implications to sustainable agriculture</p> <p>Dr. Jan Verhagen, Wageningen University & Research, Netherlands: Soil management for adaptation and mitigation of climate change</p> <p>Dr. Cornelia Rumpel, French National Centre for Scientific Research, France: The 4p 1000 initiative as multi-stakeholder platform to achieve organic carbon sequestration in tropical soils through sustainable practices</p>	

Thursday, 17 September 2020

Time	KEYNOTE (PLENARY SESSION)	
08:00-10:15	<p>Moderator: Dr. Haris Syahbuddin (Executive Secretary, Indonesian Agency for Agricultural Research and Development)</p> <p>Dr. Patricio Grassini, University of Nebraska-Lincoln, USA: Potential cereal production increase in Indonesia with current land and water resources</p> <p>Prof. Fahmuddin Agus, Indonesian Soil Research Institute: Greenhouse gases emission reduction from Indonesian oil palm plantation: closing yield gap and expansion to low carbon stock lands</p> <p>Prof. Maine van Noordwijk, World Agroforestry Center, Nairobi, Kenya: The role of agroforestry in adaptation and mitigation to climate change</p>	
PARALLEL SESSION 3		
10:30-10:40	Invited Speaker : Dr. Wirastuti Widyamanti (<i>Gadjah Mada University</i>)	Facilitator : Dr. Irawan Secretary : Dila Aksani
10:40-10:50	A dynamic model for managing urban waste in Bogor City, West Java Province. (<i>A Budiyanto, et al – ISRI</i>) ID 837	
10:50-11:00	Comparison of appropriate Cation Exchange Capacity (CEC) extraction methods of soils in several regions of Indonesia. (<i>L Purnamasari, et al –ISRI</i>) ID 856	
11:00-11.10	Adsorption capacity of chelating agent to adsorb lead and arsenic. (<i>B N Sulastri, et al –IAERI</i>) ID 870	
11:10-11:20	Analysis of landscape changes using high-resolution satellite images at former rice fields after earthquake and liquefaction in Central Sulawesi Province. (<i>G.I. Nanda, et al – ICALRD</i>) ID 683	
11:20 – 11.45	Discussions	

PARALLEL SESSION 4		
12:30-12:40	Invited Speaker : Dr. M. Rokhis Komaruddin (<i>LAPAN</i>)	Facilitator : Dr. Ir. H. Soetanto Abdoellah Secretary : Diah Puspita Hati
12:40-12:50	Smart agriculture practice for intensively rice cultivation in both irrigated and rainfed rice field. (<i>R. Kartikawati, et al - IAERI</i>) ID 913	
12:50-13:00	The comparison of numerous machine learning algorithms performance in classifying rice growth stages based on Sentinel-2 to enhance crop monitoring in national level. (<i>F. Ramadhani, et al – Massey University</i>) ID 925	
13:00-13:10	The mentoring of livestock areas in East Nusa Tenggara. (<i>S. Ratnawaty, et al –AIAT East Nusa Tenggara</i>) ID 695	
13:10-13:20	Baseline survey on supporting and accompanying horticulture technology of dry land in dry climate (case study in Sugian Village, Sambelia Subdistrict, District of East Lombok). (<i>N.Q. Hayati, et al – ICHORD</i>) ID 900	
13:20-13:45	Discussions	
PARALLEL SESSION 5		
14:00-14:10	Invited Speaker : Dr. Shin-ichi Sobue (<i>JAXA</i>)	Facilitator : Prof. Dian Fiantis Secretary : Risqa Nurkhaidah
Presenter 14:10-14:20	Reappearance of the early shoot borer <i>Chilo infuscatellus</i> in Java's sugarcane. (<i>K.S. Wijayanti, et al – ISFCRI</i>) ID 901	
14:20-14:30	The feasibility of cultivating local rice ratoon to anticipates drought. (<i>Kristamtini, et al – AIAT of Yogyakarta</i>) ID 907	
14:30-14:40	Effect of chlorpyrifos residue on onion growth and its declining. (<i>A. Kurnia, et al – IAERI</i>) ID 915	
14:40-14:50	The role of peat decomposition stage on iron solubility and distribution in tidal swamps. (<i>A. Fahmi, et al – ISARI</i>) ID 781	
14:50-15:15	Discussions	

PARALLEL SESSION 6		
15:30-15:40	Financial benefits of using soil test kit of PUTS for determining dosage of lowland rice fertilizer. (<i>Irawan, et al – ISRI</i>) ID 654	Facilitator : Dr. Wirastuti Widyamanti Secretary : Rachmat Abdul Gani
15:40-15:50	The use of mulch and amelioration in peatlands to increase production of red chili plants. (<i>A. Susilawati, et al – ISARI</i>) ID 785	
15:50-16:00	Application of biochar to improve maize performance at volcanic and sediment in dry land. (<i>A. Krismawati, et al – AIAT of Malang</i>) ID 792	
16:00-16:10	Application of mycorrhiza biofertilizer to increase yield of several varieties of small chili additively intercropped with peanut or shallot. (<i>W. Wangiyana, et al – Post Graduate Program of the University of Mataram;</i>) ID 795	
16:10-16:20	Biodegradation of antibiotic antibiotic residues residues on in chicken manure by composting composting using microbes processes. (<i>S. Salma, et al – ISRI</i>) ID 809	
16:20-16:45	Discussions	

Friday, 18 September 2020

PARALLEL SESSION 7		
08:00-08:10	Effect of NPK fertilizer incorporation on the characteristics of nanocellulose-based hydrogel. (<i>C. Winarti, et al – ICAPOSTRD</i>) ID 814	Facilitator : Dr. Rizatus Shofiyati Secretary : Rachmat Abdul Gani
08:10-08:20	Increasing P-uptake by providing P, Zn and crop residue return on direct seeded rice. (<i>N.A. Viandari, et al – IAERI</i>) ID 820	
08:20-08:30	Utilization of biochar cacao shell and compost to improve growth media of small chili pepper (<i>Capsicum frutescens</i> L.) in acidic dryland. (<i>R. Ariani, et al –ISRI</i>) ID 827	
08:30-08:40	Ameliorant engineering to elevate soil pH, growth, and productivity of paddy on peat and tidal land. (<i>R.A. Saputra, et al – Lambung Mangkurat University</i>) ID 828	
08:40-08:50	Biochar and improvement of water quality in tidal swampland. (<i>A.Khairani, et al – ISARI</i>) ID 863	
08:50-09:15	Discussions	
PARALLEL SESSION 8		
09:30-09:40	Applications of guano and K ₂ CO ₃ on soil potential-P, potential-K on Andisols. (<i>K. Zakiah, et al – ISRI</i>) ID 866	Facilitator : Prof. Bambang Secretary : Rachmat Abdul Gani
09:40-09:50	Social behavior and institutional support on the swamp rice sustainability. (<i>R. Yusuf, et al – AIAT of Riau</i>) ID 652	
09:50-10:00	Soil bacteria abundance in application of biopesticides (<i>Bacillus Aryabhatai</i>) in swampland, South Kalimantan. (<i>S. Wahyuni, et al – IAERI</i>) ID 873	

10:00-10:10	Total root dry weight per soil volume in maize by application dose of Bokasi reducing use of N, P, and K fertilizer on terraced land. (<i>N. Istoqomah, et al –AIAT of East Java</i>) ID 878	
10:10-10:20	Effect of inorganic fertilizer and farmyard manure to available P, growth, and rice yield in rainfed lowland Central Java. (<i>S Apriyani, et al – IAERI</i>) ID 880	
10:20-10:30	Evaluation of the use of plant organic components and probiotics on ruminal characteristics and as a decrease of methane. (<i>Yenny N.A</i>) ID 882	
10.30 – 11.00	Discussions	
PARALLEL SESSION 9		
Presenter 13:00-13:10	The assay of carrier material and bacteria isolate formula as a biofertilizer on soybean in Inceptisols from West Java. (<i>D. Aksani, et al – ISRI</i>) ID 899	Facilitator : Dr. Elsa Surmaini Secretary : Mira Media Pratamaningsih
13:10-13:20	Effect of peatphos fertilizer formula to the growth and yield of sweet corn on peatland. (<i>J. Purnomo - ISRI</i>) ID 903	
13:20-13:30	Does biochar enhance soil organic matter formation in tropical soils? (<i>L.S. Schnee, et al – University of Bremen</i>) ID 905	
13:30-13:40	The effect of different species cyanobacteria on the rice yield and nitrogen efficiency under different levels of nitrogen fertilizer on Alluvial West Java. (<i>J. Purwani - ISRI</i>) ID 917	
13:40-13:50	Application of nano inorganic fertilizer on rice plant productivity (<i>Oryza sativa</i> L.). (<i>T. Rostaman - ISRI</i>) ID 918	
13:50-14:15	Discussions	

PARALLEL SESSION 10		
14:30-14:40	Analysis of peat bacterial diversity in oil palm plantations and in logged forest in Jambi, Indonesia, using PCR-DGGE technique. (<i>E. Pratiwi, et al – ISRI</i>) ID 927	Facilitator : Hendri S., CESA Secretary : Mira Media Pratamaningsih
14:40-14:50	The efficacy of biofertilizer contains some Bradyrhizobium japonicum isolates on soybean yields grown in inceptisols, Bogor, West Java. (<i>J. Purwani, et al – ISRI</i>) ID 929	
14:50-15:00	Vague property status and future risk of mangroves: Lesson learned from South Sulawesi, Indonesia. (<i>S. Suharti, et al –CIFOR</i>) ID 712	
15.00-15.10	N, P and K fertilization response on maize in Vertisols in Central Java, Indonesia. (<i>Samijan, et al – AIAT of Central Java</i>) ID 922	
15.10:15:20	Combination of dry-wet land preparation and direct seeding to increase plant population and yield of Rice (<i>Oryza sativa</i> L.). (<i>Z. Susanti, et al – ICRR</i>) ID 826	
15.20-15.45	Discussions	
15:45- 16:15	Closing Ceremony	