

Program of the 15th International Conference RAMIRAN

Sunday 2nd June 2013

16h - 20h Registration and Welcome Reception at **le Potager du Roi, 10 rue du Maréchal Joffre, Versailles**

All the conferences will be held at the **University of Versailles-Saint-Quentin, 45 avenue des Etats-Unis, Versailles**

Monday 3rd June 2013

9h - 9h45 Opening ceremony *Amphi Bertin*

9h45 10h30 Introductory conference: "Challenges and perspectives of metabolism analysis for agriculture at a territory scale" by Dr Benoit CHARRIERE, *Sofies GA Geneva, Switzerland, Amphi Bertin*

10h30 - 11h Pause

11h - 12h40 Parallel sessions

	Amphi F			Amphi G			Amphi H		
	<u>S4: Integrating organic residues in cropping practices</u>			<u>S5: Management at the landscape scale</u>			<u>S10: Assessment tools and environmental balance of recycling organic residues in agriculture</u>		
Chairman	Stefan DE NEVE			Giorgio PROVOLO			Marilys PRADEL		
11h	S4,01,Side-band injection of acidified cattle slurry as starter P-fertilization for maize seedlings	Jens PETERSEN	Aarhus University, Denmark	S5,01,Scenario Construction for Returning Organic Residues to Agricultural Land (RORAL) on Reunion Island	Tom WASSENAR	CIRAD, France	S10,01,Réseau PRO : analyzing the French context of field experiments assessing agronomic, environmental and sanitary impacts of organic residues recycled in agriculture	Alix BELL	INRA-EGC, France
11h20	S4,02,Changes for 11 years of plant-available phosphorus in a French loamy soil amended either with biological or biological and limed sewage sludge	Christian MOREL	INRA, France	S5,02,Simulating the management of wastes at a territory level in the peri-urban market gardening systems of Dakar (Senegal): the case of the Rufisque department	Moussa N'DIENOR	N'Dienor agroconsulting, Senegal	S10,02,Agricultural and urban waste in tropical area: The help of Near Infrared Spectroscopy for better orientate their valorization between soil fertilization or energy production	Nantenaina RABETOKOTANY	LRI, URSoil and Climate Changes, Madagascar
11h40	S4,03,Biofertiliser: Crop available nitrogen supply to winter cereals	Brian CHAMBERS	ADAS Gleadthorpe, United Kingdom	S5,03,Assessment of the nitrogen use efficiency of Swiss farms based on a representative farm management survey	Harald MENZI	Berne Univ. of Applied Science, School of Agricultural, Forestry and Food Science, Switzerland	S10,03,Emission reductions of greenhouse gas emissions and domestic waste composting in less advanced countries. Why new assessment tools are requested	Gaia LUDINGTON	GEVALOR, France
12h	S4,04,Long term effect of livestock organic products on nitrogen mineralization and C and N storage in soils	Thierry MORVAN	INRA, France	S5,04,Matching farm dairy effluent management practices to soil and landscape features: a New Zealand approach towards sustainable use of agricultural wastewater	Dave HOULBROOKE	AgResearch, Ruakura Research Centre, New Zealand	S10,04,Residual N effects from organic inputs	Jaap SHROEDER	Wageningen U. & Research C., Netherlands
12h20	S4,05,Evaluation of the characteristics of commercial organic fertilizers for use in intensive vegetable organic cropping systems	Kurt MÖLLER	KTBL, Germany	S5,05,Phosphorus budget and flows in a peri-urban region; a case study of the Lower Fraser Valley, British Columbia, Canada	Shabtai BITTMAN	Agriculture and Agri-Food Canada, Agassiz	S10,05,Manure management and greenhouse gas mitigation in dairy husbandry	Robert VANDRE	KTBL, Germany

13h - 15h00 Lunch; poster sessions

15h00 - 16h20 Parallel sessions

	Amphi F			Amphi G			Amphi H		
	<u>S1: Ecosystem services provided by recycling of organic residues in agriculture</u>			<u>S11: Integrated assessment and social factors</u>			<u>S10: Assessment tools and environmental balance of recycling organic residues in agriculture</u>		
Chairman	Lars Stoumann JENSEN			Oene OENEMA			Tom WASSENAAR		
15h	S1,01,Typology of exogenous organic matter based on biochemical composition to predict effects on soil aggregate stability	Jérémy DENES	Agrocampus, France	S11,01,Putative role of trace elements and soil chemical properties in the induction or mitigation of rhizotoxicity in tropical soils amended with organic wastes	Nantenaina RABETOKOTANY	CIRAD, France	S10,06,Modelling management options of organic waste for the evaluation of synergies and trade-offs between climate change mitigation and ecosystem services	Guillermo PARDO	Basque Centre for Climate Change, Spain
15h20	S1,02,Compost-induced improvements of soil physical properties in agricultural fields on loess	Marie EDEN	INRA-EGC, France	S11,02,Caenorhabditis elegans (Nematoda) and Hypoaspis aculeifer (Acar) as new ecotoxicological tools for the assessment of organic materials used in agriculture	Pierre HUGUIER	INERIS, Verneuil, France	S10,07,Batfarm Software: A support tool in the selection of environmental strategies in livestock operations in the Atlantic Region	Maite AGUILAR	INTIA, Spain
15h40	S1,03,Fluxes of organic matter in harvested biomass and crop residues of energy crops: effects on soil organic matter	Bart VANDECASTEELE	Institute for Agricultural & Fisheries Res., Belgium	S11,04,A survey system to present the status of anaerobic digestion in Europe in different sectors – Agriculture, industrial, urban waste and waste water sector	Ina KÖRNER and Thierry BIOTEAU	Hamburg University of Technology, Germany/IRSTE, France	S10,08,Reducing the constraints of environmental legislation on pig production by using a selection of manure management technologies	Nicholas J. HUTCHINGS	Aarhus University, Denmark
16h	S1,04,Direct and indirect effects of repeated addition of sewage sludge on soil carbon stocks evaluated in four Swedish long-term field experiments	Thomas KÄTTERER	Swedish University of Agricultural Sciences, Sweden				S10,09,Systemic approach of collective biogas plants on a territory using Geographic Information Systems (GIS) to move towards an environmental assessment	Faustine LAURENT	IRSTE, France

16h20 - 16h45 Pause

16h45 - 17h45		Parallel sessions								
		Amphi F			Amphi G			Amphi H		
		S1: <u>Ecosystem services provided by recycling of organic residues in agriculture</u>			S11: <u>Integrated assessment and social factors</u>			S10: <u>Assessment tools and environmental balance of recycling organic residues in agriculture</u>		
Chairman		Thomas KÄTTERER			Ina KÖRNER			Barbara AMON		
16h45	S1,05,Release of nitrogen and phosphorus from composts, AD digestates and manure and detailed characterization of these materials	Munoo PRASAD	Compost/AD Research and Advisory, Ireland	S11,05,Historical development of ammonia emissions from agriculture in Switzerland over the past 150 years	Maria KLOSSNER	Berne Univ. of Applied Science; School of Agricultural, Forestry & Food Science, Switzerland	S10,10,Assessing fertilising practices with organic residues in agriculture: a life cycle assessment perspective	Marilyn PRADEL	IRSTEA, France	
17h05	S1,06,Recycling of olive oil Mill effluents stored in ponds through agricultural land disposal	Pedro GONZALEZ FERNANDEZ	IFAPA, Spain	S11,06,The transformation of blackwater, lawn cuttings & grease trap residues into biogas & fertilizers in a neighborhood of Hamburg - An integrated approach at territorial scale	Ina KÖRNER	Hamburg University of Technology, Germany	S10,11,Life cycle environmental impacts of source separated and slurry-based cow manure systems	Juha GRÖNROOS	Finnish Environment Institute, Finland	
17h25	S1,07,Influence of six urban compost types on sorghum growth in Donsin, sudan-sahelian area of Burkina Faso	Dasmané BAMBARA	INERA, Burkina Fasso	S11,07,Towards a common methodology for estimating nitrogen and phosphorus excretion by livestock in EU-27	Oene OENEMA	Wageningen University, Netherlands	S10,12,Investigating citizens' preferences for recycling Residual Organic Products in agriculture: a choice experiment approach	Pierre BOUCARD	INERIS, France	
18h	Departure to cultural visits (about 1h30)									

Tuesday 4th June 2013

8h30 - 9h30

Invited conference: "Bioavailability of trace metals in organic soil amendments: mechanisms, detection methods and implications for risk assessment" by Erik SMOLDERS, KU Leuven, Belgium, **Amphi Bertin**

9h30 - 10h30

Parallel sessions

	Amphi F			Amphi G			Amphi H		
	S1: <u>Ecosystem services provided by recycling of organic residues in agriculture</u>			S2: <u>Environmental impacts of recycling of organic residues in agriculture</u>			S6: <u>Recycling of organic residues in suburban and urban agriculture</u>		
Chairman	Safya MENASSERI			Brian CHAMBERS			Edmond HIEN		
9h30	S1,08,Recovery and Use of Nutrients, Energy and Organic Matter from Animal Waste	Lars Stoumann JENSEN	University of Copenhagen, Denmark	S2,01,Quantification of Trace Elements fluxes (As, Cd, Cu, Pb, Zn) into agricultural fields amended with pig slurry	Laurence DENAIX	INRA, France	S6,01,Simulation modeling of management scenarios of livestock manure in urban and periurban zones of Mahajanga, Madagascar	Heriniaina RAMAHEFARISON	University of Mahajanga, Madagascar
9h50	S1,09,Effect of the fertilisation with anaerobic, composted and pelletised sewage sludge on the levels of soil Ca and Al in a silvopastoral system under Quercus rubra L	María Rosa MOSQUERA-LOSADA	Universidad de Santiago de Compostela, Spain	S2,02,Long-term compost amendment of a Mediterranean agricultural soil. II: Assessment of heavy metals and nitrates contamination risk for soil, groundwater and crops	Giovanni SAVIELLO	Università degli Studi di Salerno, Italy	S6,02,Potential substitution of mineral N fertilizer by organic residues at the territory scale	Karim DHAOUADI	INRA-EGC, France
10h10	S1,10,Fertilizer value of field applied digestates	Kurt MÖLLER	KTBL, Germany	S2,03,Combining X-ray absorption spectroscopy (XAS) and diffusive gradients in thin films (DGT) to probe speciation and dynamic of heavy metals in soils amended with organic wastes	Marie TELLA	CIRAD, France	S6,03,Contribution to the agronomic characterization of the new METHACOMPOST produced in 2012 on Ametyst plant	Jean-Luc MARTEL	CIRSEE SUEZ Environnement, France

Pause

10h30 - 11h

11h - 12h40

Parallel sessions

	Amphi F			Amphi G			Amphi H		
	S1: <u>Ecosystem services provided by recycling of organic residues in agriculture</u>			S2: <u>Environmental impacts of recycling of organic residues in agriculture</u>			S8: <u>Treatment processes for agriculture</u>		
Chairman	Michaël HEDDE			Emmanuel DOELSCH			Maria Rosa MOSQUERA LOSADA		
11h	S1,11,The use of vermicompost and biochar to increase soil fertility and carbon sequestration of degraded soil in Northern Vietnam	Ngo PHUONG	Institute of environmental Technology, Vietnam	S2,04,Negative externalities of intensive use of organic wastes products on two tropical soils in the context of urban agriculture in the region of Dakar	Nounagnon Richard HODOMIHO	CIRAD, France	S8,01,Monitoring and evaluation of composting as manure management strategy in the Region of Murcia	José SAEZ	CEBASC-CSIC, Spain
11h20	S1,12,Long-term effect of exogenous organic matter amendments on soil invertebrate diversity	Mickael HEDDE	INRA-Pessac, France	S2,05,Dynamic of organic micropollutants during anaerobic digestion: link between characterization of matrix and localization of micropollutants into matrix compartments	Quentin AEMIG	INRA, France	S8,02,On-farm composting of dairy cattle slurry solid fraction	Luis Miguel BRITO	Instituto Politécnico, Viana do Castelo, Portugal
11h40	S1,13,Effect of organic amendments on soil enzymatic activities. Results of the "Bioindicators" French program	Wassila RIAH	ESITPA, France	S2,06,The COP-SOIL model for mineralization and bioavailability of organic micropollutants during composts decomposition in soil	Chunnu GENG	INRA EGC, France	S8,03,Effect of biochar and compost usage in farmland on carbon sequestration and plant growth	Shuji YOSHISAW	Meisei University, Japan
12h	S1,14,Investigating the impact of plant composting on soil organic matter and microbial community dynamics using stable isotopes and molecular analyses	Thomas LERCH	BIOEMCO, France	S2,07,Plant nutrient dynamics in soil solution after addition of a lime treated sewage sludge	Nerea VILLAR	NEIKER-Basque Institute for Agricultural Research and Development, Spain	S8,04,Agro-environmental assessment of composting plants in Southwestern of Morocco (Souss Massa Region)	Azim KHALID	INRA, Morocco
12h20	S1,15,Long term effects of biosolid applications on soil biological parameters	Jérôme CORTET	INRA, France	S2,08,Measures to mitigate nitrogen and phosphorous losses can reduce the risk of disease transmission from manure	Jakob OTTOSON	SLU, Sweden	S8,05,Calculation tool for gas emissions and composition of Swine, Cattle and Poultry manures through treatment processes	Philippe DUPARD	IRSTEA, France

13h - 15h	<i>Lunch; poster sessions</i>								
15h - 16h40	Parallel sessions								
	Amphi F			Amphi G			Amphi H		
	S9: <u>Environmental impacts of organic residue treatment</u>			S2: <u>Environmental impacts of recycling of organic residues in agriculture</u>			S8: <u>Treatment processes for agriculture</u>		
Chairman	Torkild BIRKMOSE			Tom MISSELBROOK			Mattias VANOTTI		
15h	S9,01,Ammonia emission from a flexible bag storage system for cattle slurry	Viguria MAIALEN	NEIKER-Tecnalia, Spain	S2,09,The detection and enumeration of zoonotic pathogens in agricultural effluents	Mark BOYLE	Glasgow Caldeonian Univ., United Kingdom	S8,06,Technical and economical evaluation of digestate processing techniques	Sebastian WULF	KTGL, Germany
15h20	S9,02,Effect of mechanical separation of digested slurry on greenhouse gas and ammonia emissions during storage	Francesca PERAZZOLO	UNIMI, Italy	S2,10,Modelling cattle exposure to Salmonella in pasture after application of organic fertiliser	Josefine ELVING	National Veterinary Institute, Sweden	S8,07,Combustion and pyrolysis as potential ways of recycling Phosphorus from agricultural residues as fertilizers for plant production	Wibke CHRISTEL	University of Copenhagen, Denmark
15h40	S9,03, Composting as digestate post-treatment: composting behavior and gaseous emissions of three types of digestate compared to nondigested waste	Anne TREMIER	IRSTEA, France	S2,11,Microbial and toxicological qualities of Solanum macrocarpon Linn cultivated with chicken's manure and water of marsh in Cotonou (Benin)	Victorien DOUGNON	University of Abomey-Calavi, Benin	S8,09,Anaerobic digestion of organic manures: effects on plant available N and C retention in soil	Peter SORENSEN	Aarhus Univ. Denmark
16h	S9,04,Ammonia and nitrous oxide emissions during swine slurry composting	Rodrigo NICOLOSO	EMBRAPA, Brazil	S2,12,Persistence of fluoroquinolones and of ciprofloxacin resistant Enterobacteriaceae in soil after poultry manure application	Patrick DABERT	IRSTEA, France	S8,10,How do biochar characteristics influence its capacity to mitigate N2O emissions in agricultural soils?	Maria Luz CAYUELA	CEBAS- CSIC, Spain
16h20	S9,05,Importance of injector design on ammonia volatilization and crop yield when soil injecting pig slurry to a winter wheat crop	Tavs NYORD	Aarhus University, Denmark	S2,13,Impact of the spreading of urban waste on agricultural soil bacterial communities in the periphery of Ouagadougou, Burkina Faso	Edmond HIEN	University of Ouagadougou, Burkina-Faso			
16h40 - 17h	<i>Pause</i>								
17h - 18h40	Parallel sessions								
	Amphi F			Amphi G			Amphi H		
	S3: <u>Livestock housing and management of manure at the farm level</u>			S2: <u>Environmental impacts of recycling of organic residues in agriculture</u>			S8: <u>Treatment processes for agriculture</u>		
Chairman	Sven SOMMER			Thomas KUPPER			Pascal PEU		
17h	S3,01,Effects of measurement technique and sample preparation on NIR spectroscopy analysis of livestock effluents and digestates	Alberto FINZI	Università degli Studi di Milano, Italy	S2,15,Greenhouse gas emissions after soil application of fresh, composted or biocharred manure	Kun ZHU	University of Copenhagen, Denmark	S8,11,Drying solid fractions of animal manure to produce commercial fertilizers	Giuseppe MOSCATELLI	CRPA, Italy
17h20	S3,02,The use of near infrared spectroscopy (NIRS) to better assess livestock effluents composition. A national experience	Laurent THURIES	CIRAD, France	S2,16,How does the timing and form of organic fertiliser application affect greenhouse gas emissions from arable soil?	Nicola WINNING	SRUC, United Kingdom	S8,12,Membrane fouling during the filtration of swine manure pretreated by flocculation using cationic polymer	Christina PEDERSEN	Aarhus University, Denmark
17h40	S3,03,Livestock organic residue management in the urban and peri-urban area of Bobo-Dioulasso (Burkina Faso)	Alain GOMGNIMBOU	INERA, Burkina Faso	S2,17,Modelling the C and N balances from energy crops in Denmark ; effect of crop types, soil, climate, residues management, initial carbon level and turnover time	Lorie HAMELIN	University of Southern, Denmark	S8,13,Manure Acidification Affecting Solid-Liquid Separation Efficiency	Giorgia COCOLO	Università degli Studi di Milano, Italy
18h	S3,04,Manure production and handling techniques on industrial-scale livestock farms in the Baltic Sea Region	Erik SINDHÖJ	Swedish Institute of Agricultural and Environmental Engineering, Sweden	S2,18,Long term assessment of the dual manure steam concept for improving crop recovery of N and P from liquid dairy manure	Shabtai BITTMAN	Agriculture and Agri-Food, Agassiz, Canada	S8,14,New Concepts of Ammonia Removal from Digested Swine Effluents Using Anammox Based Deammonification Process	Matias VANOTTI	USDA-ARS, USA
18h20	S3,05,Costs of ammonia emission abatement in manure management	Sebastian WULF	KTBL, Germany				S8,15,Ammonia removal from swine wastewater by simultaneous nitrification-denitrification processes within a photobioreactor	Marcio Luis BUSI DA SILVA	Federal Univ. of Santa Catarina, Brazil
19h30	Gala dinner								

Wednesday 5th June 2013

8h30 - 10h30

Parallel sessions

	Amphi F			Amphi G			Amphi H		
	S3: <u>Livestock housing and management of manure at the farm level</u>			S2: <u>Environmental impacts of recycling of organic residues in agriculture</u>			S7: <u>Treatment processes for energy production</u>		
Chairman	Patrick DABERT			Harald MENZI			Anne TREMIER		
8h30	S3,06,Phosphorus recycling as struvite from pig manure. Influence of process parameters	Marie-Line DAUMER	IRSTEA, France	S2,19,Nitrogen losses to air and water following cattle slurry applications to a drained arable soil	Lizzie SAGOO	ADAS Boxworth, United Kingdom	S7,01,Energetic assessment of extrusion as pretreatment to improve the anaerobic digestion of agricultural ligno-cellulosic biomasses	Simona MENARDO	University of Turin, Italy
8h50	S3,07,Dynamic of inorganic and organic characteristics, biogas production and GHG emission potential as affected by separation and acidification of pig slurry	Sven Gjedde SOMMER	University of Southern, Denmark	S2,20,Reassessment of ammonia emission factors after slurry application	Christoph HÄNI	Bern University of Applied Sciences, Switzerland	S7,02,Brassicaceae sp. catch crops as co-substrate for agricultural biogas production	Pascal PEU	IRSTEA, France
9h10	S3,08,GHG emissions associated with manure management from livestock systems in a Mediterranean country. A case study: Spain	Agustin DEL PRADO	Basque centre for climate change, Spain	S2,21,Ammonia emission from field applied digestates and related cross media effects	Kurt MÖLLER	KTGL, Germany	S7,03,Sulfide removal from biogas mediated by photosynthetic anaerobic bacteria consortium	Marcio DA SILVA	EMBRAPA, Brazil
9h30	S3,09,Influence of dried distillers grains with solubles (DDGS) into dairy cows diet on fugitive methane emission from manure storages and on manure bioenergy potential	Guillaume JARRET	Dairy and Swine Research and Development Centre, Canada	S2,22,Ammonia volatilization from manure application to field: extrapolation from semicontrolled and controlled measurements to emissions in real agricultural conditions	Georgios NTINAS	INRA EGC, France	S7,04,Optimization of anaerobic treatment of organic residues: The Role of trace elements in volatile fatty acids degradation and methane yield optimization	Nwagbo Christophe EZEUIRO	Hamburg University of Technology, Germany
9h50	S3,10,Magnitude and routes of nitrogen and carbon losses from solid cattle manure subjected to various storage condition	Abas Shah GHULAM	Wageningen University, Netherlands	S2,23,Ammonia emission after field application of biogas digestates: measurements in 2 energy crop rotations across 5 sites in Germany	Andreas PACHOLSKI	Christian-Albrechts University Kiel, Denmark	S7,05,The value of agro-industrial by-products for biogas production: BMP (Biochemical Methane Potential) test	Mariangela SOLDANO	CRPA, Italy
10h10	S3,11,Biotransformations during co-composting of dairy sludge with cattle manure on the Reunion Island	Rafolisy TOVONARIVO	University of Antananarivo, Madagascar	S2,24,Assessing N emissions from organic residues spreading: study of the on-field distribution patterns influence and of emission models sensibility	Marilyn PRADEL	IRSTEA, France	S7,06,Effects of fungal pre-treatments on wheat straw, a co-substrate for anaerobic digestion of manure	Anne-Marie POURCHER	IRSTEA, France

10h30 - 11h

Pause

Invited conference:

"European and national regulations and policies on organic resources: how to consider all stakeholders and environmental interests" by Dr Stefanie Siebert, European Compost Network, Germany, **Amphi Bertin**

11h - 12

"European and national regulations and policies on organic resources: impacts on production and use of organic fertilisers and soil conditioners" by Hubert Brunet Deputy Manager of SEDE Environnement and chairman of European Federation of Agricultural Recycling (EFAR). France, **Amphi Bertin**

12 - 12h45

Conclusion of the conference, **Amphi Bertin**

12h45 - 13h30

Lunch

14h

Departure to technical visits

Thursday 6th June 2013

Workshop at INRA Versailles (route de Saint Cyr, 78000 Versailles)

9h30 - 15h

"Long-term experiments of organic residues recycling, towards a European network?"