



**Phytoremediation driven energy crops
production on heavy metal degraded areas as
local energy carrier**

Start date of project: 2014/02/01

Duration: 48 Months

FP7-PEOPLE-2013-IAPP

Industry-Academia Partnerships and Pathways

Identifier:	D4.10_(v.Final) IETU IAPP Open Seminars
Date:	2018/01/31
Class:	Deliverable
Responsible Partner:	IETU
Annexes:	Annex 1 Technical Seminar – List of participants
Distribution:	PU (public)
Title:	IAPP Open Seminars

The project is funded from the European Community's Seventh Framework Programme of Research and Technology development under Grant Agreement 610797



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VERSION RECORD

Version	Date	Author	Description of Changes
v1	2018/01/04	M. Fudala	Document creation
v2	2018/01/26	I.Ratman	Revision
v3	2018/01/31	M. Fudala/M. Korcz	Formatting
v4.	2018/01/31	I. Ratman-Klosinska	Final version

Work Package 4: Dissemination & outreach

WP Leader: IETU

Participants : All

The general goal of WP4 is to raise awareness and build up a strong interest in the outcomes towards the development phytoremediation driven energy crops production resulting from the Maria Skłodowska-Curie Actions (MSCA). Activities under this WP are also to ensure effective dissemination of the project results in order to efficiently use and share the knowledge among end-users and maintain collaborative arrangements between all the project beneficiaries of the participating countries and to communicate the contributions made to the European knowledge and scientific excellence. In the communication and outreach activities stress is put on the value of collaboration and importance of research between EU member states thanks to the MSCA IAPP activities as well as the benefits arising from the project to research institutions and the society, in general and highlighted.

Outreach activities dedicated to general public and wider groups of interest

Within the Phyto2Energy project the consortium organised 51 seminars dedicated to sessions dedicated to general public and wider groups of interest (Table 1). These events gathering 650 participants, mostly researchers, students and administration, but also energy consulting companies, energy suppliers, NGOs or professional associations. In the final phase of the project the Phyto2Energy Technical Seminar has been organised. The event took place at IETU premises on 2nd October 2017. This event presented the results of the project by the Fellows from IETU (Poland), Vita34 Bioplanta (Germany), HMGU (Germany), Probiotics Polska (Poland), Silesia University of Technology (Poland) and ISPE (Romania). Presentations are available on the project website <http://www.phyto2energy.eu/ShowNew.aspx?newid=44>.



2014.09.02 – Seminar – ISPE, Timisoara



2014.09.09 – Seminar / Field trip – ISPE, Govora

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2015.03.06 – Seminar at IETU, Katowice, Poland



2015.07.08 – Seminar at HMGU, Leipzig, Germany



2015.06.02 / 2015.06.10 – Seminars for AGH students at IETU



2015.09.24 – 22nd Combustion Processes Symposium



2015.12.18 – Seminar at the Faculty of Technology SENAI CIMATEC, Brazil



18.10.2016 – Seminar, Poland



2017.01.9-10 – Seminar, Aberystwyth University, UK

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2018.01.9-11 Seminar P2E Kansas State University, USA



2017.10.02 Technical Seminar, Poland

Fig. 1 Examples of outreach activities

IAPP Open Seminars

Table 1 The outreach activities performed by the beneficiaries in project months 1-48.

	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
1-24M									
1.	NAT	Seminar	IETU and Phytoremediation team activities concerning environmental engineering and phytoremeditaion field	May-14	Marta Pogrzeba	IETU	VITA34	R&D Academia	5
2.	NAT	Seminar	Energy crop Characteristic phytoremediation issues , IETU results on energy crop plantation on HMC Sites.	May-14	Marta Pogrzeba	IETU	VITA34	R&D Academia	5
3.	NAT	German - Polish Symposium on Phytoremediation (University of Leipzig, Germany)	Institute for Ecology of Industrial Areas (IETU) - history, main activities and European projects in the field of environmental protection.	Jun-14	Jacek Krzyzak	IETU	VITA34	R&D Academia	15
4.	NAT	German - Polish Symposium on Phytoremediation (University of Leipzig, Germany)	Cleaning up the soils contaminated with heavy metals - Phytoremediation Unit approach and main international projects.	Jun-14	Jacek Krzyzak	IETU	VITA34	R&D Academia	
5.	NAT	German - Polish Symposium on Phytoremediation (University of Leipzig, Germany)	Aided phytostabilization of heavy metals contaminated soils.	Jun-14	Jacek Krzyzak	IETU	VITA 34	R&D Academia	
6.	INT	Seminar (Transylvanian University of Brasov, Faculty of Silviaculture and Forest Engineering)	Transylvanian University experience in the field of energy crops (mainly <i>Miscanthus</i>) cultivation.	Jun-14	Sylwia Kubicka, Sebastian Werle	SUT	ISPE	R&D Academia	8

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
7.	INT	Seminar (Transylvanian University of Brasov, Faculty of Silviaculture and Forest Engineering)	Transylvanian University experience in the field of energy crops (mainly <i>Miscanthus</i>) cultivation.	Jun-14	Sylwia Kubicka, Sebastian Werle	SUT	ISPE	R&D Academia	4
8.	LOC	Open IETU Seminar for students	Lecture for 70 students from Faculty of Biology and Environmental Protection (University of Silesia, Katowice)	Jun-14	Marta Pogrzeba	IETU	-	R&D Academia	31
9.	LOC	Open IETU Seminar for students	Lecture for 70 students from Faculty of Biology and Environmental Protection (University of Silesia, Katowice)	Jun-14	Marta Pogrzeba	IETU	-	R&D Academia	28
10.	INT	Biomass gasification (Technical University of Bucharest, Power Engineering Department)	Experience exchange in the field of biomass gasification and the problem with hazardous waste disposal.	Jun-14	Sylwia Kubicka, Sebastian Werle	SUT	ISPE	R&D Academia	2
11.	LOC	Open Day of Biotope Schladitz	During the open day visitors get a insight of the flora and fauna of the biotope. In addition to the tours visitors can expect an interesting program about the biotope (which is the German of the field trial regarding the project)	Jun-14	Sven Dulleck, William Grosser	VITA34	-	R&D Academia	10
12.	LOC	Long Night of Science in Leipzig	There is no better opportunity to learn about the fascinating diversity of ideas and projects in	Jun-14	Maria Schöpe, Markus Weiss, Kristina Ziegler	VITA34	-	R&D Academia	25

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
			research, teaching and art at universities, institutes and companies situated in Leipzig.						
13.	LOC	Workshop	Biomass as a fuel	Jul-14	Sylwia Kubicka, Sebastian Werle	SUT	ISPE	R&D Academia	1
14.	LOC	Workshop	SUT activities in thermal engineering	Jul-14	Sylwia Kubicka, Sebastian Werle	SUT	ISPE	R&D Academia	1
15.	LOC	Workshop	ISPE experience in Thermal Power Plants	Aug-14	Alexandru Rugiubei, Daniel Bisorca	ISPE	SUT	R&D Academia	9
16.	LOC	Workshop	HMC biomass TGA and gasification tests - results analysis	Aug-14	Alexandru Rugiubei, Daniel Bisorca	ISPE	SUT	R&D Academia	6
17.	NAT	Phyto2Energy Seminar (Govora Power Plant [RO])	Institute for Ecology of Industrial Areas (IETU) - history, main activities and European projects in the field of environmental protection	Sep-14	Jacek Krzyzak	IETU	ISPE	research institutes and universities, energy and environment consulting companies, energy suppliers, NGOs, professional associations	16
18.	NAT	Phyto2Energy Seminar	Possibilities of using energy crops for phytoremediation of heavy metals contaminated soils. Energy crop characteristic, phytoremediation issues, IETU results on energy crop plantation on HMC	Sep-14	Marta Pogrzeba	IETU	ISPE	research institutes and universities, energy consulting companies, energy suppliers,	16

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
			sites.					NGOs, professional associations	
19.	NAT	Progress seminar (Helmholtz Centre for Environmental Research Leipzig, Germany)	Presentation of Phyto2Energy Project - Phytoremediation driven energy crop production on contaminated areas as a local energy carrier.	Oct-14	Jacek Krzyzak	IETU	VITA34	research institutes and universities, energy consulting companies, energy suppliers, NGOs, professional associations	
20.	INT	8th International Conference Innovative Solutions for Revitalisation of Degraded Areas	Long-term phytoremediation of a former sewage sludge dewatering site	Oct-14	Kristina Ziegler Izabela Ratman	VITA34 IETU	IETU	general, SMEs, professionals, R&D academia, administration, students	103
21.	LOC	Workshop	Introduction of methods applied for determination of cytogenetic damage in plants - seminar.	Dec-14	Ewa Błaszczuk	IETU	ProBiotics	general, SMEs, professionals	6
22.	LOC	Workshop	Practical training using model plant <i>Allium cepa</i>	Dec-14	Ewa Błaszczuk	IETU	ProBiotics	general, SMEs, professionals	6
23.		Seminar	Concept of Cooperation between ProBiotics and the Institute of Microbial Technologies	Feb-15	Szymon Powalowski, Barbara Cania	ProBiotics	HMGU	R&D Academia	8
24.	NAT	IETU Seminar	Full-scale remediation of contaminated sludge using	Mar-15	Anja Hebner	Vita34	IETU	R&D Academia	25

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
			plants - investigations; results and experiences						
25.	LOC	Seminar for students Wisla	Phyto2 Energy Project on Students Seminar in Wisla, 13-16.04.2015 – in Polish	Apr-15	Sebastian Werle	SUT	-	R&D Academia	
26.	LOC	Seminar	Phytoremediation - Development of pot (treatability study) and field experiments (streamline tests, full demonstration) in practice, examination and problems	Apr-15	Marta Pogrzeba	IETU	VITA34	R&D Academia	5
27.	LOC	Symposium	3rd International Symposium on the Environmental Dimension of Antibiotic Resistance (EDAR-3)	May-15	Joseph Nesme	-	HMGU	R&D Academia	
28.	LOC	Seminar	Clustermeeting NanoCare at Frankfurt a. M., Germany	May-15	Thomas Fricke	Vita34	-	R&D Academia	
29.	LOC	Seminar	Result of P2E project after first year of plant vegetation - comparison between sites, problems and achievements	May-15	Marta Pogrzeba	IETU	VITA34	R&D Academia	5
30.	NAT	Seminar for students (1st Group)	1) Phytoremediation driven energy crop production on heavy metal degraded areas as local energy carrier – PHYTO2ENERGY PROJECT 2) Commercial methods of Miscanthus giganteus seedlings production and possibilities of using in large scale	Jun-15	Pogrzeba Marta	IETU	IETU	R&D Academia	47

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
31.	NAT	Seminar for students (2nd Group)	1) Phytoremediation driven energy crop production on heavy metal degraded areas as local energy carrier – PHYTO2ENERGY PROJECT 2) Commercial methods of Miscanthus giganteus seedlings production and possibilities of using in large scale	Jun-15	Pogrzeba Marta	IETU	IETU	R&D Academia	52
32.	LOC	Seminar	LCPro+Equipment as a tool for measurement of plant physiological parameters	Jul-15	Jacek Krzyzak	IETU	VITA34	R&D Academia	7
33.	LOC	Seminar	Phytoremediation driven energy crops production on heavy metal degraded areas as local energy carrier – progress seminar	Jul-15	Jacek Krzyzak	IETU	VITA34	R&D Academia	17
34.	LOC	Seminar	Case study on HM contaminated land - establishing and development on research schedule using lysimeter experiments	Aug-15	Marta Pogrzeba		VITA34	R&D Academia	5
35.	LOC	Seminar	Cost benefits analysis for biomass gasification as local energy carrier in three European countries	Sep-15	Daniel Bisorca	ISPE	SUT	R&D Academia	10
36.	LOC	Seminar	Presentation of the first year of FTIR results. Overview results for FTIR tests regarding control biomass samples from the first year of experiments.	Sep-15	Andreas Pahopol	ISPE	SUT	R&D Academia	10

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37.	INT	15th EuCheMS International Conference on Chemistry and the Environment (ICCE) 09/2015		Sep-15	Thomas Fricke	Vita34		R&D Academia	
38.	INT	XXII International Symposium on Combustion Processes, Hucisko, Poland	An introduction to the PHYTO2ENERGY project	Sep-15	Izabela Ratman-Kłosińska	IETU	SUT	R&D Academia	17
39.	INT	XXII International Symposium on Combustion Processes, Hucisko, Poland	Approach to energy crop cultivation on heavy metal contaminated sites - Polish and German case study	Sep-15	Pogrzeba Marta	IETU	SUT	R&D Academia	
40.	INT	XXII International Symposium on Combustion Processes, Hucisko, Poland	Part I. Laboratory test results of the gasification of heavy metal contaminated energy crops Part II. TG/FT-IR analysis results of the gasification of heavy metal contaminated energy crops	Sep-15	Sebastian Werle	SUT	SUT	R&D Academia	
41.	INT	XXII International Symposium on Combustion Processes, Hucisko, Poland	Cost benefits analysis of HMC biomass gasification as local energy carrier	Sep-15	Daniel Bisorca,	ISPE	SUT	R&D Academia	
42.	INT	XXII International Symposium on Combustion Processes, Hucisko, Poland	Production of bioethanol from lignocellulose based on giant Miscanthus sp. and Sorghum sp.	Sep-15	Szymon Powalowski	ProBiotics	SUT	R&D Academia	

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Participants no
43.	INT	XXII International Symposium on Combustion Processes, Hucisko, Poland	Lab tests results of the 1st year biomass feedstock and solid gasification residues properties	Sep-15	Andreas Pahopol	ISPE	SUT	R&D Academia	
44.	NAT	IETU Seminar	Behavior of nanoparticles along the fate wastewater – sewage sludge – plant	Oct-15	Thomas Fricke	Vita34	IETU	R&D Academia	20
45. 25-48M									
46.	LOC	seminar	Energy crop production at former sewage sludge deposit site contaminated with heavy metals - Phyto2Energy Project	Nov-16	Kathrin Kopielski / Swantje Prah	VITA34	IETU	R&D Academia	15
47.	LOC	seminar	Institute for Studies and Power Engineering - Phyto2Energy Partner	Oct-16	Ioana Cristina Dima, Iuliana Cardaşol	ISPE	IETU	R&D Academia	16
48.	LOC	seminar	Waste-to-Energy Projects in Romania; Romanian experiences in municipal solid waste system	Oct-16	Valintin Rusu / Cristina Tomescu	ISPE	SUT	R&D Academia	36
49.	LOC	seminar	"Plant microbes interactions: improving the biomass production and remediation"	Mar-17	Szymon Powalowski	Probiotics	IETU	R&D Academia	10
50.	NAT	seminar	Phyto2Energy Progress Seminar - Bucarest	Feb-16	Jacek Krzyżak / Marta Pogrzeba	IETU	ISPE	R&D Academia	13
51.	NAT	seminar	Phyto2Energy Progress Seminar - Govora	Feb-16	Jacek Krzyżak / Marta Pogrzeba	IETU	ISPE	R&D Academia	9
52.	INT	seminar	Phyto2Energy Technical Seminar	Oct-17	Fellows	IETU/ISPE/SUT/Vita34/Probiotics	IETU	research institutes and universities, energy consulting	31

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	Event Scope Loc(LOC), Regional (REG), National (NAT), International (INT)	Event Name	Brief Content Description	Event Date	Persons	Home Organisation	Host involved	Type of participants (general, professionals, R&D academia etc)	Partici pants no
								companies, energy suppliers, NGOs, professional associations, administration, students	

IAPP Open Seminars

Annex 1 Technical Seminar – List of participants



Phytoremediation driven
energy crops production
on heavy metal degraded
areas as local energy carrier

List of attendance

Phyto2Energy Technical Seminar

2nd October 2017 , Institute for Ecology of Industrial Areas, Katowice, Poland

No.	Surname	Name	Institution	Signature
1	Biedroń	Izabela	Instytut Ekologii Terenów Przemysłowych	
2	Błaszczyk	Ewa	Instytut Ekologii Terenów Przemysłowych	
3	Boiko	Oleksandra	Instytut Ekologii Terenów Przemysłowych	
4	Brągoszewska	Ewa	Politechnika Śląska	
5	Cardasol	Iuliana	ISPE	
6	Chojniak	Joanna	Instytut Ekologii Terenów Przemysłowych	
7	Cofalka	Piotr	Instytut Ekologii Terenów Przemysłowych	
8	Dima	Cristina Ioana	ISPE	
9	Fudała	Marta	Instytut Ekologii Terenów Przemysłowych	
10	Gnida	Anna	Politechnika Śląska	
11	Gołąb	Mariusz	TÜV NORD Polska Sp. z o.o.	
12	Igboji	Collins	Brandenburg university of technology, Cottbus-Senftenberg	

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Phytoremediation driven
energy crops production
on heavy metal degraded
areas or local energy carrier

No.	Surname	Name	Institution	Signature
13	Jaskulak	Marta	Politechnika Częstochowska	
14	Kalinichenko	Antonina	University of Opole	
15	Karło	Agata	Regionalne Centrum Gospodarki Wodno-Ściekowej S.A.	
16	Kochanek	Bogna	„ENERGOPOMIAR” Sp. z o.o.	
17	Kompała-Bąba	Agnieszka	Uniwersytet Śląski w Katowicach, Wydział Biologii i Ochrony Środowiska	
18	Kopielski	Kathrin	Vita 34	
19	Kosch	Stanisław	Małopolska Hodowla Roślin	
20	Kozubek	Jan	Urząd Marszałkowski Województwa Śląskiego	
21	Krzyżak	Jacek	Instytut Ekologii Terenów Przemysłowych	
22	Kukielka	Dorota	Uniwersytet Śląski	
23	Mazur	Szymon	WBiOŚ, Uniwersytet Śląski w Katowicach	
24	Murtaś	Aneta	Politechnika Częstochowska	
25	Pasko	Bogdan	Urząd Marszałkowski Województwa Śląskiego	
26	Płaza	Grażyna	Instytut Ekologii Terenów Przemysłowych	

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Phytoremediation driven
energy crops production
on heavy metal degraded
areas as local energy carrier

No.	Surname	Name	Institution	Signature
27	Pogrzeba	Marta	Instytut Ekologii Terenów Uprzemysłowionych	
28	Powałowski	Szymon	Probiotics Polska	
29	Prahl	Swantje	Vita 34	
30	Ratman - Kłosińska	Izabela	Instytut Ekologii Terenów Uprzemysłowionych	
31	Rusinowski	Szymon	Instytut Ekologii Terenów Uprzemysłowionych	
32	Rusu	Valentin	ISPE	
33	Skowronek	Jan	Instytut Ekologii Terenów Uprzemysłowionych	
34	Szeligová	Natalie	Technical Universitu of Ostrava	
35	Tomescu	Cristina	ISPE	
36	Turek-Szytow	Jolanta	Politechnika Śląska	
37	Wcisło	Eleonora	Instytut Ekologii Terenów Uprzemysłowionych	
38	Werle	Sebastian	Politechnika Śląska	
39	Werle	Sebastian	Politechnika Śląska	
40	Woźniak	Gabriela	Wydział Biologii i Ochrony Środowiska	

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Phytoremediation driven
energy crops production
on heavy metal degraded
areas as local energy carrier

No.	Surname	Name	Institution	Signature
41	Zadel	Urška	HMGU	
42	SZELIGOVA'	NATALIE	VŠB-TUO CZECH REPUBLIC	
43	Zusimowski	Szymon	IETU	
44	Kopa- szewski	Maria	IETU	
45	Nowak	Katarzyna	IETU	
46	Priedon	Mirena	IETU	
47	Jasiewicz	Jakub	IETU	
48	Sojka	Natęga	IETU	
49	Boiko			
50	GÓRSKA	MAGDALENA	Probiotics	
51	GÓRSKI	BOGUSŁAW	Probiotics	
52	Ky	Pat	UM Chonbo	
53				
54				

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