



LIFE17 ENV/LT/000407



Algae
Service
for
Life

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Conferences and workshops



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ALGAE – ECONOMY BASED ECOLOGICAL SERVICE OF AQUATIC ECOSYSTEMS

AlgaeService for LIFE, No. LIFE17 ENV/LT/000407

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Summary

Ten scientific conferences were planned for the duration of the project, but in total the project idea and results were presented at 30 international and 2 national conferences, with a total of 33 oral presentations and 23 posters presented to 4178 participants. In addition, the project was promoted or ideas discussed in 9 national and 6 international workshops and smaller events (total number of participants 6654). Additional budget for conferences was acquired from other foundations or host institutions. Some conferences were continued so that the public could follow the project results, which increased interest in further collaboration. A closed session at the "Chemistry for Agriculture" conference enabled AMU to establish contacts with agricultural companies and identify their expectations and interest in the use of macroalgal biomass in crop production. Recognizing the need to share experiences and opportunities for the transfer of remote sensing analyzes, the NRC and NHF partners organized a seminar-workshop on remote sensing 10/2021, which was not foreseen in the proposal.

Abbreviations

AMU – Adam Mickiewicz University in Poznan

INC – Institute of Nature Conservation of Polish Academy of Sciences (INC PAS)

INT – international conference/symposium/workshop

NHF – Nature Heritage Fund

NRC – Nature Research Centre

NT – national conference/ workshop

1. Presentations at Conferences and Symposia

No.	Date	Type of conference	Name of conference	Type of presentation/ Partner presenter	Link	Title of presentation	Indicator, No. of participants
1	2018-05-22	INT	37th International Conference of the Polish Phycological Society "Green Future: Algae applications and perspectives". Kraków-Dobczyce, Poland	plenary oral / NRC	http://fykologia.pl/en/2018/01/24/37th-international-conference-of-the-polish-phycological-society/	Prospecting of indigenous freshwater microalgae as a valuable regional resource	110
2	2018-09-24	INT	"Phycological Conference" in Sankt Petersburg, Russia	plenary oral / AMU		The role of polyphenols produced by <i>Cladophora glomerata</i> in shaping phytoplankton and pleustophytes communities	140
3	2018-11-25	INT	Forum of agricultural and industrial companies „Chemistry for Agriculture in Karpacz”, Poland	oral presentation, 3 posters /AMU		1. Bioactive compounds in freshwater algae; 2. Impact of effective use of excess micro and macro-algae biomass on water resources.	192
4	2019-04-08	INT	Vth International Conference on Research and Education Challenges for Contemporary Live Sciences, Poznań	poster /AMU	https://algaservice.gamtostyrimai.lt/vth-international-conference-on-research-and-education-challenges-for-contemporary-live-sciences-poznan/	Analysis of Bioactive Compounds in Freshwater Green Algae Extracts Obtained by SFE Method	320
5	2019-05-02	INT	3rd International Conference on Life and Environmental Sciences „SmartBio“, Kaunas, Lithuania	oral / NRC	http://icsb.vdu.lt/	A Circular Economy EU Life Project: Algae Economy-Based Ecological Service Of Aquatic Ecosystems	200
6	2019-05-05	INT	11th IC on Toxic Cyanobacteria in Cracow	oral / INC	https://ictc11.org/	Tools to manage cyanobacteria agglomerations in freshwater ecosystems	220
7	2019-06-26	INT	5th Polish-Kazakh Meeting: relationship between chemistry and biology, Poznań, Poland	oral / AMU		Nutrient fluxes and freshwater ecosystems – an overview of LIFE project	47
8	2019-06-27	INT	International forum in Wągrowiec-Poznań, Poland	oral / AMU		Diversification of periphytic diatoms on <i>Cladophora glomerata</i> from different water ecosystems in relation to thalli characteristics	43

9	2019-06-04	INT	38th IC of Polish Phycological Society “Evolution and Biodiversity of algae” Kielce-Sandomierz, Poland	2 posters / AMU, INC, RNC	http://fykologia.pl/en/2019/02/02/38th-international-conference-of-the-polish-phycological-society/	1. Differences and similarities between Lake Legowski and Lake Oporzynskie algal composition; 2. ALGAE - Economy based ecological service of aquatic ecosystems (ALGAESERVICE for Life) - introduction to the project.	70
10	2019-06-30	INT	11th Symposium for European Freshwater Sciences, Zagreb, Croatia	poster / NRC	http://www.sefs11.biol.pmf.hr/	“EU LIFE project “ALGAE – ECONOMY-BASED ECOLOGICAL SERVICE OF AQUATIC ECOSYSTEMS” (AlgaeService for LIFE) filling gaps in a circular economy”	400
11	2019-08-25	INT	7th European Phycological Congress, Zagreb, Croatia	poster / NRC	http://epcseven.biol.pmf.hr/	Algae Service for LIFE project: creation of ecological service tools to mitigate cyanobacteria and algal blooms in freshwaters	430
12	2019-09-17	INT	Lakes & Reservoirs: Hot Spots and Topics in Limnology, Mikorzyn, Poland	oral / AMU		Diverse ecological habitats as markers of freshwater algae Cladophora.	150
13	2020-09-24	INT	Natural Toxins: Environmental Fate and Safe Water Supply	oral / INC	https://natoxaq.ku.dk/conference/	Tools to manage cyanobacteria agglomerations in freshwater ecosystems	59
14	2020-11-23	INT	6 th Polish-Kazakh Meeting: relationship between chemistry and biology”. International forum in Poznań	oral (online) /AMU		Factors controlling ecological stability of <i>Cladophora</i> communities in the light of first monitoring results within the LIFE project	48
15	2021-07-06	INT	7 th „Polish-Kazakh Meeting: relationship between chemistry and biology”, Shymkent-Poznań	Plenar lecture (online) /AMU		<i>Cladophora</i> as an example of small-scale structural ecosystem engineer (LIFE17 ENV/LT/000407	45
16	2021-07-07	INT	40 th EARSeL Symposium	oral / Łukasiewicz Aviation Institute	http://symposium.earsel.org/40th-symposium-Warszaw/home/		40
17	2021-08-22	NT	Conference physicochemistry of phase frontier, Lublin	oral / AMU		Environmental factors influence for macroalgae development	124
18	2021-09-27	INT	39th International Conference of the Polish Phycological Society “Contemporary taxonomy of algae”	2 oral & 2 posters / INC, AMU, NRC	https://algaeservice.gamtostyrimai.lt/39th-international-conference-of-the-polish-phycological-society-contemporary-taxonomy-of-algae/	1. Seeking the best practice for cleaning waters from cyanobacterial and macroalgal blooms; 2. Harvesting of wild algal biomass from Lithuanian freshwaters and testing for	70

						bioproducts within the framework of the project AlgaeService for LIFE; 3. 24/7 when cyanobacteria blooms end; 4. Exploring the potential of Cladophora glomerata biomass as a fertiliser for barley growth	
19	2021-10-12	INT	“Remote sensing in environmental studies: advantages and challenges” (Seminar-workshop)	oral /NRC organizers; NHF, NRC	https://algaeservice.gamtostyrimai.lt/international-scientific-practical-seminar-remote-sensing-in-environmental-studies-advantages-and-challenges/		100
20	2021-11-22	INT	The 45th International Scientific and Technical Seminar “Chemistry for Agriculture”	5 oral presentations /AMU	https://www.chemistryforagriculture.pl	1. Influence of the collected biomass treatment on its efficiency as fertilizers in plant crops; 2. Differences in the content of important chemical components of macroalgal biomass depending on the time of their uptake; 3. Freshwater macroalgae as a new raw material for high value products; 4. Methods of qualitative and quantitative analysis of biologically active substances in algal extracts; 5. CO ₂ pathways in the shallow aquatic ecosystem: relationship between algae and bacteria	208
21	2022-05-18	INT	Spring Ecological Seminar titled “Effects of eutrophication and the available possibilities for effective restoration of water reservoirs”	Oral (on-line) /AMU		Effects of eutrophication and the available possibilities for effective restoration of water reservoirs	3000
22	2022-05-22	INT	12th International Conference on Toxic Cyanobacteria, The University of Toledo	2 posters / INC	https://www.bgsu.edu/bowen-thompson-student-union/conference-and-event-services/international-conference-on-toxic-cyanobacteria.html	1. The influence of climate factors on the presence of microcystins in freshwaters – a case study from Poland 2. Developing an UAV method of monitoring of cyanobacterial blooms in freshwater ecosystems	200
23	2022-07-07-08	INT	8 th „Polish-Kazakh Meeting: relationship between chemistry and biology”, Shymkent-Poznań	poster (on-line) /AMU		Algae Service for Life (LIFE17 ENV/LT/000407): Interdisciplinary dialogue	73

24	2022-08-14	INT	22nd Symposium of the International Association of Cyanobacteria Research (IAC)	2 oral / INC, NRC	https://www.iac2022.cz/home	1. Cyanobacterial blooms and circular economy 2. How dangerous are cyanobacterial blooms and what are the solutions to the problem?	80
25	2022-10-	INT	Forum of agricultural and industrial companies „Chemistry for Agriculture in Karpacz”, Poland Closed session: Project Algae Service for LIFE (LIFE17 ENV/LT/000407) Chair: B. Messyasz	3 oral /AMU	www.chemistryforagriculture.pl	1. Complex network of macroalgae functioning; 2. Examples of high value products using freshwater macroalgae extracts; 3. Influence of the type of water reservoir and its close surroundings on the content of antioxidants in water	160 (in closed section: 50)
26	2023-05-23	INT	40th International Conference of the Polish Phycological Society „Time of change: taxonomy and ecology of algae in theory and practice“	1 oral, 3 posters / AMU, INC	https://fykologia.pl/en/2022/12/24/40th-international-conference-of-the-polish-phycological-society-2/	1. Results of the LIFE project "Algae - Economy Based Ecological Service of Aquatic Ecosystems; 2. Do initial circumstances forge endpoint effects? The influence of climatic conditions on carbon, nitrogen and microcystin concentration in plankton biomass; 3. UAV monitoring of blue-green algae blooms in freshwater ecosystems. 4 How familiar are you with cyanobacterial blooms? The survey results	107
27	2023-06-27	INT	9 th „Polish-Kazakh Meeting: relationship between chemistry and biology”, Shymkent-Poznań	Poster /AMU		Fluctuations relevant for lake management – scientific knowledge of LIFE project results	100
28	2023-06-12	INT	International Conference on Algal Biomass, Biofuel and Bioproducts (AlgalBBB 2023)	3 posters / AMU	https://www2.hawaii.edu/~duz/algalbbb-2023/	1. Influence of habitat on the variability of the antioxidants content in green macroalgal thalli; 2 Extraction and determination of phenolic compounds from freshwater algae; 3 The influence of the environmental conditions on the chemical composition (determined by various methods) of freshwater <i>Cladophora glomerata</i>	400
29	2023-08-20	INT	8th European Phycological Congress. Scientific Opportunities for a Global Algal Revolution	poster / INC	https://epc8.sciencesconf.org/	When society meets science - results of the survey on cyanobacterial blooms	450

30	2023-09-12	INT	The Central and Eastern Europe Symposium on Microbial Ecology (CEEESME)	Poster / INC	https://ceesme.ecolres.hu/	On the origin of toxicity: what are the drivers of microcystin concentration in plankton biomass	70
31	2023-10-06	NT	Scientific and Business Conference IN THE DIRECTION OF CLOSED ECONOMY	Oral & poster /INC	https://przemyslprzyszlosci.gov.pl/wydarzenia/konferencja-w-kierunku-gospodarki-o-obiegu-zamknietych-mozliwosci-i-wyzwania/	1. Freshwater algae and cyanobacteria a source of useful raw materials for industry and agriculture; 2. Harvesting of cyanobacterial and algal biomass during blooms as one element of the treatment of waters from excess carbon, nitrogen and phosphorus	50
32	2023-11-26-29	INT	Forum of agricultural and industrial companies „Chemistry for Agriculture in Karpacz”, Poland	4 oral/ AMU	https://chemistryforagriculture.pl/	1. Testing of macroalgal biomass - efficiency of use for crop fertilizers; 2. Mitigation of eutrophication for the freshwater ecosystems based on algal biomass removal; 3. Testing of macroalgal biomass - use for cosmetics; 4. Bacteria - key nutrient-level indicator in various models of biocenoses	170
						TOTALY	4178

2. Presentations at Workshops

No.	Date	Type of event	Name of event	Type of presentation/ Parter presenter	Link / Location	Title of presentation / or topic	Indicator, No of participants
1	2019-11-14	NT	Seminar with the representatives of 20 municipalities responsible for the bathing sites water quality (Oral /NRC	Trakai, Lithuania	Cyanotoxins in recreational waters	30
2	2020-02-12	NT	Workshop „ <i>Innovations of renewable energy: Business choice</i> “ organized by Lithuanian Business Support Agency	Oral /NRC	Vilnius, Lithuania	Mikroorganizmai – energetikos ateitis	30
3	2020-09-24	NT	Workshop at Lithuanian Geological Survey under Ministry of Environment	Oral /NRC	Vilnius, Lithuania	Vertingi bioproduktai iš gėlavandenių dumblių ir melsvabakterių	25
4	2021-09-03	NT	Workshops at Environmental and Climate Ministry, the Ministry of Regional Funds, the Wody Polskie (Polish Waters - administration of waters in Poland) and NFOŚiGW (the agency what is co-financiers of LIFE project)	Oral/INC/AMU	on-line	Project presentation to co-financiers	30
5	2021-07-08	INT	Webinar European Algae Biomass Association	Oral/ NRC	on-line	Presentation of the wild biomass harvesting	30
6	2021-07-15	NT	The meeting of the Working Group on Water and Wastewater Management within the national network of environmental authorities and institutions managing EU funds “Partnership: Environment for Development” – National Water Management Authority,	Oral /INC	on-line	Project presentation	30
7	2022-05-18	INT	Workshop "Effects of eutrophication and the available possibilities for effective restoration of water reservoirs"	Oral (on-line)/AMU	Ningbo University, Normal University Nanyang, China	Cyanobacteria and filamentous green algae as autogenic bioengineers which modify water environment	3000

8	2022-05-31	NT	Ecological workshop for children and teenagers in Murowana Goślina	Workshop/AMU	Primary School no 1 of Karola Marcinkowskiego in Murowana Goślina, Poland	Chemical and hydrobiological experiments which brought participants closer to the problems of ecology, and showed that it is possible to successfully use algae to produce many valuable products, e.g. cosmetics, fertilizers or functional food.	120
9	2022-06-20	NT	Ecological report for the local community of Łekno and Wągrowiec	Oral / AMU	Łekno, Poland https://www.youtube.com/watch?v=0ebNsIIZ5bs 298 views	A lecture on the condition of Lake Łekneńskie waters: "Assessment of the water quality of Lake Łekneńskie in 2020-2022"	57
10	2022-07-17-24	INT	BioGeoEkoLife	Oral /AMU	Longybearbyen, Spitzbergen, Norway	Improvement of the quality of water resources and effective use of excess biomass of micro-and macroalgae	33
11	2022-05-31 & 2022-07-08	NT	Workshops (Part 1, Part 2) on cyanobacteria and filamentous green algae for employees of The State Sanitary Inspection of Poland	Oral /AMU	Poznan, Poland	1. Basic information on the species that form cyanobacteria blooms and how to recognise first stage of bloom; 2. information on mass development of filamentous green algae & the possibility of removing biomass from the lake	46
12	2022-08-17-24	INT	Workshop "Peer to peer"	Oral (repeated 2 times) / AMU	Nur Sultan & Shymkent, Kazakhstan	„Peer-to-peer” activities from Europe-to-Asia: international dimension of the AlgaeService Life 17 project	30 + 100
13	2022-11-4-6	INT	VI Poznan's Days at Kiel University. WORKSHOP „Future challenges for lake ecosystems	Oral /AMU	Kiel, Germany	Superior competitor microalgae: cyanobacteria	58
14	2022-11-17	NT	Workshop „Environmental protection and advanced technologies for protection” organized by Klaipėda environment nongovernmental association	Oral/ NRC	Klaipėda, Lithuania	Žiedinės ekonomikos keliu: kaip spręsti vandens „žydėjimų“ problemą sukuriant visuomenei naudingus produktus	35
15	2023-09-29	INT	European Research's Night	A workshop and an exhibition / AMU	Poznan, Poland	Do you know how diverse microorganisms and macroalgae are? What is their application significance?	3000
						TOTALY	6654