



Наукове стажування
WIMEK-WUR
Строкаль В.П.,
Доцент кафедри екології
агросфери та екологічного
контролю





Наукове стажування в рамках отриманого гранту **WIMEK** (Wageningen Institute for Environment and Climate Research),

<https://www.wur.nl/en/education-programmes/phd-programme/graduate-schools/www.wur.nlwimek/about-wimek.htm>

- **Передбачає 2 етапи!**
- *Перший етап* - термін: 24.06-31.07.2023
- Наказ: 136 «В» від 18.05.2023
- *Другий етап* – плановий термін: 23.10-27.10.2023





Мета стажування: удосконалення мовної комунікації, знань з інноваційних методів діагностики забруднення води (моделювання та розробка сценаріїв), вивчення новітніх підходів у викладанні дисциплін

Програма стажування I етапу:

Частина 1. Наукові дослідження та відвідування міжнародних заходів:

- робота над науковою статтею з експертами групи водних систем і глобальних змін (Water Systems and Global Change group – WSG, WUR) в рамках проекту CLIMAGRI4Ukraine
- відвідування симпозіумів, конференцій тощо

Частина 2. Вивчення методів та способів організації навчальних курсів (дисциплін):

- рецензування курсу «Принципи наук про навколишнє середовище (ESA20806) - Principles of Environmental Sciences», вивчення методів та способів організації лекційних та практичних занять на прикладі даного курсу



Частина 1. Наукові дослідження та відвідування міжнародних заходів



Certificate of Attendance

This is to certify that

Vita Strokal

attended the SCORAI-ERSCP-WUR Conference:

"Transforming Consumption-Production Systems Toward Just and Sustainable Futures".

which took place from 5 to 8 July 2023.

Sincerely,

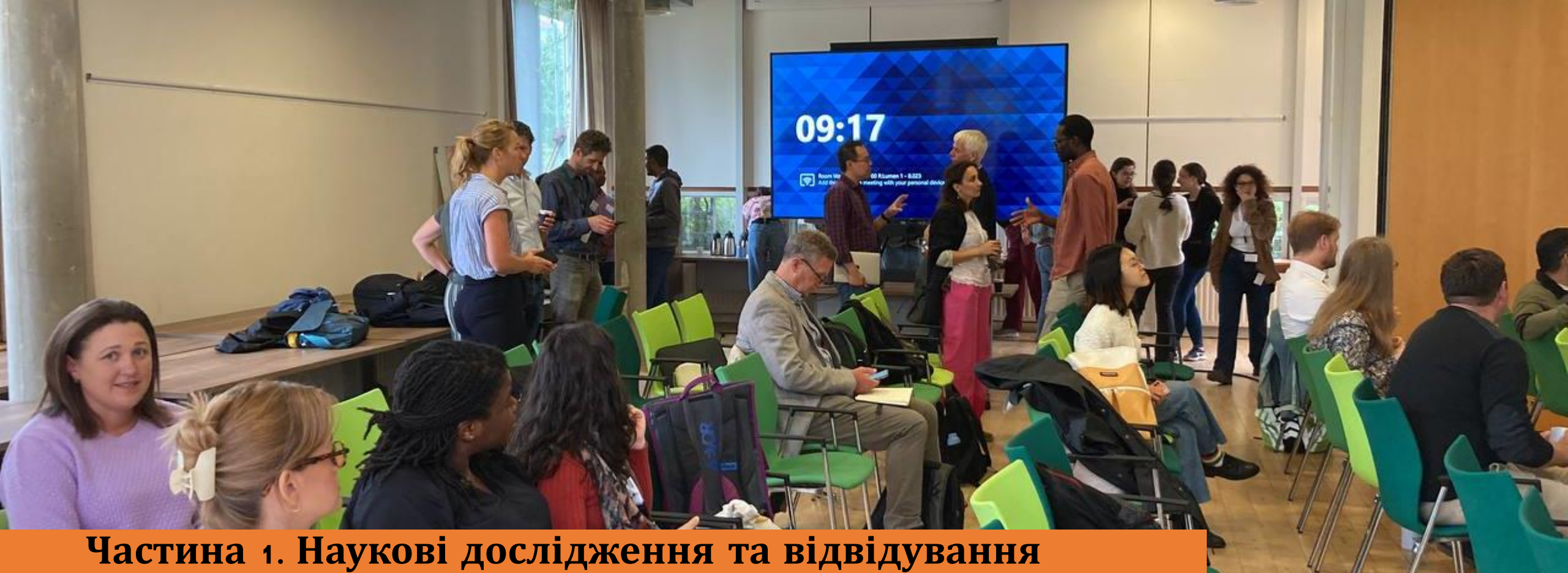
Dr Sigrid Wertheim-Heck

Associate Professor Environmental Policy

Wageningen University & Research

Wageningen, The Netherlands

- SCORAI-ERSCP-WUR Conference: Transforming Consumption-Production Systems Toward Just and Sustainable Futures,
- Участь в онлайн-офлайн секції «Шляхи переходу до сталої поствоєнної продовольчої системи України» (Pathways for the sustainability transition of Ukraine's post-conflict food system)
- 5-8 липня 2023 **Конференція про шляхи переходу до сталої поствоєнної продовольчої системи України**



Частина 1. Наукові дослідження та відвідування міжнародних заходів

Symposium: Climate Information for Adaptation,

5 липня 2023

Симпозіум про глобальні зміни температур, їхній вплив на довкілля, водну та продовольчу безпеку

HOW TO DEVELOP COLLABORATIONS IN RESEARCH AND INNOVATION?

- Need for a **pro-active strategy** to be involved in (inter)national projects / programmes (*research and innovation*) and networks (*science – policy dialogue*)
- EU Framework programme for **Research and Innovation Horizon Europe** important **tool** for WUR for boosting international cooperation.
- Need for **professional support** for researchers (*Grant writing, project management, legal and financial issues*) and professional account management

WUR SP 2019-2024: Finding answers together!



Wageningen University & Research at glance and our international strategy

Peter Jongebloed Head Wageningen Grant Office / EU office, Corporate Strategy & Accounts WUR

"To explore the potential of nature to improve the quality of life"



Частина 1. Наукові дослідження та відвідування міжнародних заходів

- Seminars: Wageningen University and Research at glance and our International Strategy,
- 10 липня 2023

Семінар про можливі співпраці у рамках наукових проектів, вимоги до проектів, вимоги до учасників та консорціуму



Horizon Europe
 → Special “Lens” on:
WIDERA
 → Focus on “Twinning”

SEMEDFIRE Hints-&-Tips to National University of Life and Environmental Sciences of Ukraine

Pierantonios Papazoglou
 BSc-ENV, MEng-ENV, 6-sigma, NEBOSH, CSTC, Voc.Trainer, EARMA, IAEM, ICPEM
 Res.Assoc. in Safety of First Responders and Civil Protection
 CERIDES Research & Strategy Manager
 SEMEDFIRE-Twinning Chief-Project-Manager
 CL3 Security | Clima & Environment | WIDERA | MSCA-PF

WAGENINGEN UNIVERSITY & RESEARCH

CER!DES Centre of Excellence in Risk & Decision Sciences

<https://cerides.euc.ac.cy>

“Hints” and “Tips” for Horizon Europe Proposals...!

Successful Proposals are...

S Specific
M Measurable
A Attainable
R Relevant
T Timely

But also, don't forget...

The John Whitmore Model

- SMART
 - Specific
 - Measurable
 - Attainable
 - Realistic
 - Time Phased
- PURE
 - The Right Goal
 - Positively Stated
 - Understood
 - Relevant
 - Ethical
- CLEAR
 - Challenging
 - Legal
 - Environmentally Sound
 - Agreed
 - Recorded

(Doran, G. T., 1981, Management Review)

<https://www.biggerpockets.com/investment-ideas/what-is-a-smart-goal/>

<https://cerides.euc.ac.cy>

Частина 1. Наукові дослідження та відвідування міжнародних заходів

- Webinar: Hints-&-tips on Twinning-proposal,
- 12 липня 2023

Вебінар про наукові проекти, вимоги до учасників та консорціуму, вимоги до написання проектів

My Articles

SUBMIT NEW MANUSCRIPT

SUBMISSION	TITLE	JOURNAL	STATUS	CHARGES
221660876	More river pollution from untreated...	Journal of Integrative Environmental...	With Editor	No Payment Needed
1 SUBMISSION				
2 PEER REVIEW				

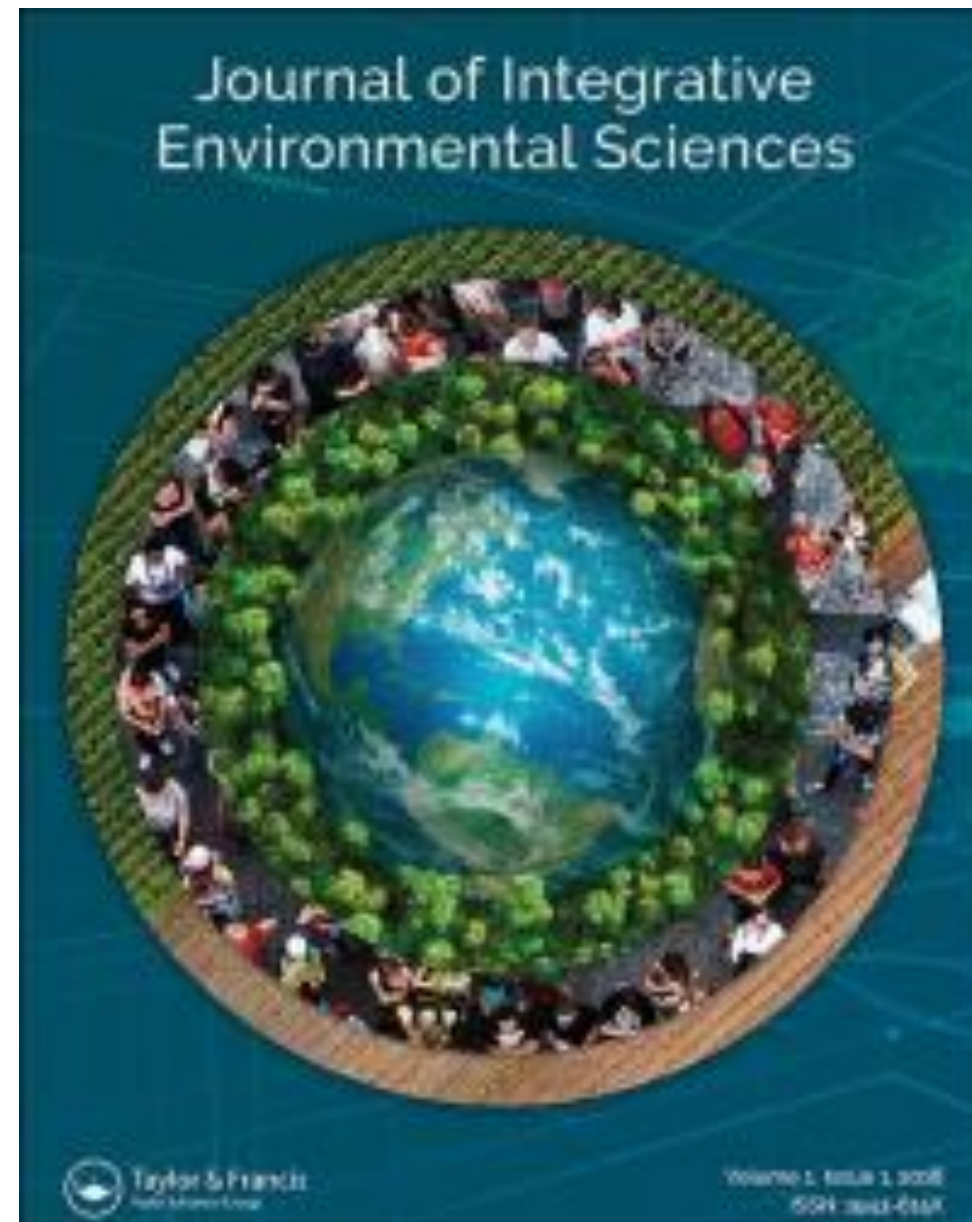
Metrics of Journal:

- Impact factor – 2.8 (2022)
- SNIP – 0.818 (2022)
- Q2

Частина 1. Наукові дослідження та відвідування міжнародних заходів

- Wrote and submit the scientific article “More river pollution from untreated urban waste due to the Russian-Ukrainian war: a perspective view”,
- 05-25 липня 2023

Наукова стаття підготовлена в рамках проекту CLIMAGRI4Ukraine (WUR-NUBiP of Ukraine)





Частина 1. Наукові дослідження та відвідування міжнародних заходів

Головні результати – Ч.1:

• 5-8 липня

Attended the symposium: Climate Information for Adaptation

Attended the SCORAI-ERSCP-WUR Conference: Transforming Consumption-Production Systems Toward Just and Sustainable Futures

• 10-15 липня

Attended the seminars: Wageningen University and Research at glance and our International Strategy

Attended the webinar: Hints-&-tips on Twinning-proposal

• 24 червня-
25 липня

Wrote and submit the scientific article “More river pollution from untreated urban waste due to the Russian-Ukrainian war: a perspective view”



Частина 2. Вичення методів та способів організації навчальних курсів (дисциплін)

My Courses

All 2022-2023 Other Ti



Principles of Environmental Sciences
ESA20806_2022_4

<https://brightspace.wur.nl>

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Рецензування курсу «Принципи наук про навколишнє середовище (ESA20806) - Principles of Environmental Sciences»

Timeline (around 2-3 hrs/week)	Assignments
My stay in Wageningen in July: focus on ESA20806	
1-7 July, 2023	Meetings with director Karen Fortuin and the coordinators of these courses Arnold van Vliet (ESA20806) Get access to the Brightspace platforms. See the guidelines for conducting a scientific peer review of this course.
13-14 July, 2023	Start checking the information on the Brightspace platforms. Contact the coordinators if I have some questions.
17-21 July, 2023 (focus on ESA20806)	Study the course guide of ESA20806, and check lectures, tutorials, practicas and associated literature on Brightspace. Start answering questions in the review template. Contact the coordinator in case of questions.
24-27 July, 2023 (focus on ESA20806)	Complete the review template with answers to the questions including comments and recommendations. Send the review of the ESA20806 course to Karen Fortuin and the coordinator of this course Arnold de Vliet



Рецензування курсу «Принципи наук про навколишнє середовище (ESA20806) Principles of Environmental Sciences»

Інформація про курс

ESA20806	Content
General inf.	<p>ESA – Environmental Sciences Analysis Group, Wageningen University</p> <p>PES – course of Principle of Environmental Sciences</p> <p>20806 – number of course</p>
Period	Period 4, 2022/2023
For whom	For MSc-students in Environmental Sciences who acquired their BSc degree in another place than Wageningen University
Platform	This course is accompanied by the Brightspace platform (address: https://brightspace.wur.nl/)
Parts of course	<p>The course consists of three parts:</p> <p>PART 1: Environmental Problems MSc students& Natural Sciences (responsible is Dr. Ir. Arnold van Vliet, Environmental Systems Analysis Group):</p> <ul style="list-style-type: none"> knowledge of the impacts of human intervention on ecosystems and the resulting environmental problems (causes of these impacts and effects) <p>PART 2: Environment & Society (responsible is Dr. Ir. Kris van Koppen, Environmental Policy Group):</p> <ul style="list-style-type: none"> knowledge of social causes of environmental problems, the role of society (governments, business, environmental movement organizations, consumers) – in tackling environmental problems <p>PART 3: Case Study (responsible is Dr. Ir. Arnold van Vliet, Environmental Systems Analysis Group):</p> <ul style="list-style-type: none"> work in a small group of students and apply the acquired knowledge (in Part 1 and 2) by analyzing a specific environmental problem, write a report and present a paper

ESA20806	Content
Credit/hours	<p>6 ECTS course (168 hours – 1 ECTS = 28 hours):</p> <p>P.1: Environmental problems & natural sciences – 49 hours (reading literature, attending lectures, studying lecture notes, including examination)</p> <p>P.2: Environment & Society – 49 hours (reading literature, attending lectures, studying lecture notes, including examination)</p> <p>P. 3: Case study – 70 hours</p>
Examination	<p>1. The written exam of PES (75% of the final mark);</p> <p>2. The paper made during the case study and the presentation of the findings (25% of the final mark)</p>
Mark / grade	<p>Need to have at least 5.5 for the case study and 5.5 for the exam.</p> <p>The grade for the case study is a group mark</p>
Lectures	<p>Part 1.</p> <ul style="list-style-type: none"> Introduction to course (A. van Vliet) Principles of Environmental Science, Work with DPSIR (A. van Vliet) Climate change (A. van Vliet) Loss of biodiversity (A. van Vliet) Environmental Health and Toxicology (A. van Vliet) Cultural explanations of environmental degradation (Ch 6) (K. van Koppen) Water resources and pollution (T. Wagner) Renewable energy (P. Kuntke) Assessing risks and valuing nature (Ch 8) (K. van Koppen) <p>Part 2.</p> <ul style="list-style-type: none"> The role of social sciences in tackling environmental problems (Ch 1) (K. van Koppen) The issue-attention cycle and the rise of environmental concern (Ch 2) (K. van Koppen) Policy making and stakeholders (Ch 4)(K. van Koppen) Structural explanations of environmental degradation (Ch 7) (K. van Koppen) Three approaches to behavior: attitudes, rational choice, and social practices (Ch 9) (K. van Koppen)
Practical's	<p>Part 3 – Case study.</p> <ul style="list-style-type: none"> Group work Final Presentations chaired by A. van Vliet & K. van Koppen

Частина 2. Вичення методів та способів організації навчальних курсів (дисциплін)

Головні результати – Ч.2: рецензування навчальної дисципліни



Principles of Environmental Sciences
ESA20806_2022_4

<https://brightspace.wur.nl>

Course code:	Course title:		
ESA20806	Principles of Environmental Sciences		
Lecturer(s): A. van Vliet, K. van Koppen, T. Wagner, P. Kuntke	Reviewer: Vita Stokral (the National University of Life and Environmental Sciences of Ukraine (NUBIP), Ukraine)		
Compulsory questions	Question	Comments	Recommendations
1	Are the study materials up to date?	Most materials are up to date. Many published literature is between the years 2020-2022. The book of 2011 is widely used in many lectures. The book is relevant because of providing materials about the definitions, and descriptions of specific terms in relation to environmental sciences. The case studies have their materials, mainly published papers. Several of those papers were published before 2020.	I believe that the most relevant and important materials are already in the course. If there is a chance/possibility, more up-to-date papers (published after 2020) could be used to support case studies.
2	To what extent are the course contents linked to relevant research and/or scientific publications?	There is a very good link between the course activities and provided materials (e.g., published papers). All materials are clearly indicated on Brightspace (easy to find). In terms of content, the published papers fit well and are often cited in lectures and in case studies. I find it very exciting that the course also provides a few videos to inspire and motivate students to be more engaged in the lecture topics (e.g., the video on The history of climate change negotiations). In some lectures, woodlap.com is used to ask questions or/and facilitate discussion between students, which is a nice interactive way to enhance the learning process, especially during lectures.	To make lectures and case studies/group work more interactive (more connection between the materials and lecture topics), other types of online platforms might be interesting to explore: <ul style="list-style-type: none"> https://learningapps.org/ (free registration and free use): it can be used to summarize important learning outcomes and check the knowledge of students during lectures as well as generate discussion between students during group works. All made materials can be saved and re-used later. https://www.canva.com/ (free registration, but up to five products are free):

3	How do you rate the academic content of the course* in terms of: depth; complexity? relation to recent research?	I believe that the academic content is relevant in relation to recent research. This is especially clear from the topics of the case studies. Cases focus on important today's challenges such as water scarcity, food security, biodiversity loss and others under climate changes and socio-economic developments. Students have an opportunity to deepen their knowledge of those topics, which is very nice.	Nowadays, society and nature have also other types of challenges that are related to war activities, political instabilities and associated environmental impacts on food and water security. It could be interesting to add one more case study on similar topics in part 2 of the course. See suggestions for literature: https://doi.org/10.1146/annurev-resource-111920-021918 and https://doi.org/10.1038/s41893-023-01070-3
4	In your opinion, are any topics missing from the course?	I think not, but I provided one recommendation for a topic that could be interesting to add in part 2 (see line above under point 3)	See above
Optional questions	Question	Comments	Recommendations
NA	NA	NA	NA

it can be used to make lectures interactive (e.g., five lectures can be made for free). All made materials can be saved and re-used later.

- <https://wordwall.net/> (free registration, but up to three products are for free): it can be used for making puzzles, quiz, games and others during group works. All made materials can be saved and re-used later.
- <https://puzzlemaker.discoverseducation.com/criss-cross>. I often use this for making crosswords for free. Made products cannot be saved online. Thus my suggestion is to make a print screen of the product and save it in Word or ppt. Crosswords can be used to check whether students learnt the materials from lectures and/or from group work activities.

Рецензування курсу «Принципи наук про навколишнє середовище (ESA20806) - Principles of Environmental Sciences»

Навчальна дисципліна передбачена для студентів ОС «Магістр» зі спеціальності «Науки про довкілля», передбачає отримання знань про антропогенний вплив на екосистеми та шляхи вирішення екологічних проблем, що виникають (причини цих впливів і наслідків); роль суспільства (уряди, бізнес, організації екологічного руху, споживачі) – у вирішенні екологічних проблем



Наукове стажування WIMEK-WUR

Строкаль В.П.,

доцент кафедри екології агросфери та екологічного контролю

Місце проведення: Університет Вагенінген, Нідерланди



Термін: 24.06-31.07.2023

Наказ: 136 «В» від 18.05.2023