

## **МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ**

(міністерство або центральний орган виконавчої влади, якому підпорядкований заклад освіти)

## УМАНСЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ САДІВНИЦТВА

(повна назва вищого закладу освіти)

#### СВІДОЦТВО

про підвищення кваліфікації СПК 00493787/101-19

Видано

### КУЧМІ тетяні леонідівні

(прізвище, ім'я, по батькові)

про те, що з 12 серпня 2019 року по 23 серпня 2019 року

Він (вона) підвищував(ла) кваліфікацію в

«Інститут післядипломної освіти HKIL дорадництва» Уманського національного університсту садівництва

(повна назва закладу освіти)

За час навчання опрацьовано 90 год.

Н <mark>азва те</mark> ми (к <mark>урсу</mark> )	Навчаль ний час
Педагогічна майс <mark>те</mark> рність викладача	30
Використання інформаційно-комунікаційних	
гехнологій у робо <mark>ті викладача</mark>	30
Інновації в педаго <mark>гі</mark> чн <mark>ому процесі при</mark>	
викладанні дисци <mark>пліни</mark> «Агроекологічний моні <mark>торинг»</mark>	30

Ректорыти

О.О. Непочатенко

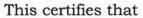
М.П.

Ресстраційний номер 101











Ukraine



successfully completed a course on

Environmental Management of Nature Parks and Reserves: Focus on Ecosystems Services

June 10th - June 29th, 2018

Ambassador Peleg Lewi Director of training and capacity building MASHAV Ministry Of Foreign Affairs

Dr. Elli Groner Scientific Director of the Dead Sea and Arava Science Center Dr. Shmuel Brenner Director of the Arava Center for Sustainable Development, AIES

Eidg. Forschungsanstalt WSL Institut fédéral de recherches WSL Istituto federale di ricerca WSL

Birmensdorf, September 8, 2018

Dr. Peter Brang
Forest Resources and Management
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peter.brang@wsl.ch



Summer School Old-Growth Forest Research

To whom it may concern

We hereby confirm that **Tetjana Kuchma** successfully participated in the Summer School on Old-Growth Forest Research, held in Nyzhnje Selyshche, Ukraine between September 2<sup>nd</sup> and 8<sup>th</sup>, 2018. The Summer School included:

- 8 hours of lectures
- 40 hours of project work, including preparation before the start of the Summer School
- 15 hours of field trips including field work in the primeval beech forest of Uholka-Shyrokyi Luh.

The total workload of 53 hours is equivalent to 2 European Credit Transfer System (ECTS) points.

On behalf of the organizing commitee

P.3

Yours sincerely

Dr. Peter Brang





# Certificate

# Tetyana Kuchma

has participated in the international teachers training

## Baltic University Programme SAIL for Teachers

Sustainability Applied in International Learning and Teaching (35 h) 30 June – 7 July 2016, Stavanger, Norway – Antwerp, Belgium

The SAIL was carried out on board sailing ship "Fryderyk Chopin" during one week sailing on the North Sea, starting from Stavanger, Norway, ending in Antwerp, Belgium. The aim was to enhance understanding of sustainability issues in global and local perspective, train teaching and learning methods, give skills for working in multidisciplinary international environment and support teambuilding capabilities for university teachers.

The academic programme included lectures, workshops, presentations and discussions on sustainability issues. The content focused on the United Nation's (UN) new Sustainable Developments Goals (SDGs). Innovations in higher education systems, and learning and teaching methods were included. The participants contributed with their own expertise and each participant presented their contribution as a part of a thematic working group. The participants represented different disciplines supporting multi- and interdisciplinary approach. International working groups and three sailing groups watches, promoted multicultural teambuilding. The participants represented 24 universities from 9 countries.

Turku / Åbo, 13 September 2016

Dean Sic

Sinikka Suomalainen Planning officer

The Baltic University Programme

**BUP Centre Finland** 

Abo Akademi University

This SAIL for Teachers was organized by the Baltic University Programme Centre for Finland at Åbo Akademi University, and the Baltic University Programme Secretariat at Uppsala University, Sweden.





#### СЕРТИФІКАТ

Географічний факультет Київського національного університету імені Тараса Шевченка партнер проекту HORIZON 2020 FREEWAT в Україні грантова угода № 642224 засвідчує, що

#### Кучма Тетяна Леонідівна

успішно закінчила навчальні курси FREEWAT: Вільні та відкриті програмні інструменти для управління водними ресурсами та отримала практичні навички роботи з програмним забезпеченням QGIS 2.14 та FREEWAT 0.3

Декан географічного факультету заслужений діяч науки і техніки України академік НАПН України професор, доктор економічних наук

Я.Б. Олійник

Київ-2017









## GKSS - IOCCG Trainings Course

# Inversion Procedures in Ocean Colour Remote Sensing

10-14 August 2009, Hamburg / Lauenburg, Germany

## Certificate

Tanya Kuchma

Has activily participated in a Trainings Course on Advanced Inversion Procedures in Ocean Colour Remote Sensing, which was held in Lauenburg / Elbe in Germany, August 10-14 2009 Organiser GKSS Research Center, Institute for Coastal Research

Lecturer

Dr. Roland Doerffer Prof. Zhongping Lee Dr. Stewart Bernard Dr. Mark Dowell

#### Topics

- Data analysis
- · Determination of the information content of reflectance spectra
- Optimization techniques
- Forward Modelling
- Direct algebraic solutions
- Inversion based on principle component analysis
- · Inversion by artificial neural networks
- Classification methods
- · Reducing variance in model parametrisation
- The influence of inelastic properties on inversion algorithms



# Effects of Climate Change on the World's Oceans International Symposium



## Tetyana Kuchma

has participated in the International Symposium on the Effects of Climate
Change on the World's Oceans, held in Gijon (Spain), from 19 to 23 May 2008.
On behalf of Organizing Committee



















## The 36th COSPAR Scientific Assembly

## CERTIFICATE OF ATTENDANCE

This is to certify that

Tetyana Kuchma

participated in the 36<sup>th</sup> COSPAR Scientific Assembly hosted by Committee on Space Ressarch held from 16 to 23 July 2006 in Beijing, China

On behalf of the sponsors

Dilin-

Prof. Ji Wu

Secretary General of Local Organizing Committee