

ANNOUNCEMENT**SYSTEM APPROACH FRAMEWORK
FOR COASTAL RESEARCH AND MANAGEMENT:
FROM THEORY TO PRACTICE**

Date: August 20– 26, 2017

Venue: August 21– 22, 2017. University of Latvia, Academic Center for Natural Sciences (ACNC), Jelgavas str. 1, Riga, Latvia
August 23–25, 2017. Guest house Rakari, Svetciems, Salacgriva District, Latvia.

About BONUS BaltCoast project

BONUS BaltCoast is the acronym for a Baltic integrated coastal zone management (ICZM) Project called “**A systems Approach Framework for Coastal Research and Management in the Baltic**”. This Project was developed to overcome the lack of a holistic approach which shall integrate different human activities with ecosystems capacity and environmental forcing. Therefore, BONUS BaltCoast has the ultimate objective of developing a coherent and systematic management approach that encompasses multiple impacts in a spatially heterogeneous context, by using Systems Approach Framework (SAF) as a tool to be applied through case studies that reflect current regional management challenges and develop a generic tool for integrated system assessment. BONUS BaltCoast project Consortium consists of seven Research Institutes/Universities from the Baltic Sea region (Germany, Denmark, Lithuania, Estonia, Latvia, Poland and Sweden). Project webpage - <http://www.baltcoast.net/>

Description of Summer school 2017

This is the 2nd Summer School organized by BONUS BaltCoast project and after successful run in 2016 at Klaipeda University (Lithuania) it will take place now in Latvia, coordinated by University of Latvia. The course focus and main content will be - **System Approach Framework application for Coastal Research and Management**. The SAF is a methodology that has been designed, developed and tested by various institutes and universities across the European Union, where multidisciplinary teams were involved in the analysis of coastal problems, engaging in inter- and transdisciplinary work with society and policy, tackling environmental problems in the coastal zone, aiming to improve the ecological sustainability, economic efficiency, and social equity. Socio-ecological system approach and stakeholders’ participation into problem-solving and decision making process could be seen as key factor for a SAF application for complex local coastal area problem situations.

During the course all five SAF methodology steps will be addressed both theoretically and during exercises and/or group work: **Issue Identification** - the problem diagnosed with stakeholder involvement; **System Design** - conceived virtual system; **System Formulation** - made simulation model; **System Assessment** - tested model and run for several scenarios; **Consultation** – stakeholders deliberate the scenarios; followed by **implementation, monitoring and evaluation**. Many other ICZM aspects and tools will be addressed as well.

Lecturers from partner institutions

- The Leibniz Institute for Baltic Sea Research, Warnemünde, Germany:
Prof. G. Schernewski, J. Schumacher,

- National Institute of Aquatic Resources, Denmark (DTU), Denmark:
Dr. J. Stottrup, G. Dinesen,
- Marine Research and Technology Center, Klaipeda University, Lithuania:
Prof. R. Povilanskas, Dr. M. Kataržytė, Dr. G. Umgiesser, N. Čerkasova, M. Inácio, D. Karnauskaitė,
- Institute of Ecology, Tallinn University, Estonia:
Dr. A. Kont, Dr. H. Tonisson, V. Palgino, K. Vilumaa
- Institute of Hydroengineering, Polish Academy of Sciences, Gdansk, Poland:
Dr. M. Bielecka, Dr. K. Rabski (Society for The Coast, Szczecin)
- Department of Economics, Swedish University of Agricultural Sciences, Sweden:
Prof. I. Gren
- Faculty of Geography and Earth Sciences, University of Latvia:
Prof. R. Ernsteins, Prof. I. Kudrenickis, Dr. J. Lapinskis, A. Urtans, U. Rusmanis.

Summer school program

Date	20 Sunday	21 Monday	22 Tuesday	23 Wednesday	24 Thursday	25 Friday	26 Saturday
Topic	Arrival to Riga	PART I: THEORY		PART II: PRACTICE			Departure from Riga to home countries
		Coastal issues and integrated coastal zone management	SAF: theory and practice	Case study site visits: Estonia and Latvia	SAF application and supporting tools	SAF application and supporting tools	
9:00 <u>Welcome</u> Introduction with Summer School Objectives and Logistics		<u>Lecture:</u> Systems Approach Framework (SAF): overview and application	8:00 <u>Traveling to Pärnu</u> BONUS BaltCoast case study area (Estonia)	<u>Exercise:</u> SAF study case: Latvia	<u>Exercise:</u> SAF study case: Latvia		
		<u>Lecture:</u> SAF Step 1: Issue Identification		<u>Lecture and exercise:</u> SAF study case: Lithuania	<u>Lecture and exercise:</u> Ecosystem services assessment		
9:45		Coffee Break					
10:30							
11:00		<u>Lecture:</u> Presentation of each BaltCoast project case study ¹ and discussion	<u>Exercise:</u> SAF Step 1: Issue Identification	<u>Lecture:</u> SAF in ICZM practice. Case study: Coastal protection in Pärnu Bay	<u>Lecture and exercise:</u> SAF study case: Poland	<u>Exercise:</u> Ecosystem services assessment and tool application	
11:45			<u>Lecture:</u> SAF Step 2: Systems Design & examples				
12:30		Lunch					
13:30		<u>Lecture:</u> Presentation of each BaltCoast project case study and discussion	<u>Lecture:</u> SAF Step 3: Systems Formulation & examples	<u>Visit</u> Case study area	<u>Lecture and exercise:</u> Stakeholder involvement and tool application	<u>Group work:</u> Student group work on SAF application step on individual cases	
14:15			<u>Lecture:</u> SAF Step 4: System Assessment & examples				
15:00		Introduction with participants	<u>Lecture:</u> SAF Step 5: Consultation & examples	<u>Departure/arrival to</u> Svetcie, Salacgriva district (Latvia)	<u>Lecture and exercise:</u> Sustainability indicators and tool application	<u>Individual work:</u> Student presentations of individual work	
15:45		Coffee Break					
16:15		<u>Lecture:</u> Integrated Coastal Zone Management practice and re-analysis case studies	<u>Lecture and exercise:</u> Use of Cost–benefit analyses for SAF	<u>Visit to Salacgriva</u> SAF in ICZM practice. Case study: Coastal municipal governance (Salacgriva area)	<u>Exercise:</u> Sustainability indicators and tool application	<u>Individual work:</u> Student presentations of individual work	
17:00						<u>Evaluation</u> of Summer School Course	
17:45	Welcome and get together dinner in Riga			Social evening in Salacgriva district	<u>Departure/arrival to Riga</u>		

Target audience

- ¹
1. Eco-technologies to improve water quality in the Szczecin Lagoon (Germany)
 2. Channel dredging, shipping and economic development in the Vistula Lagoon (Poland)
 3. Bathing water quality and local tourism in the Curonian Lagoon (Lithuania)
 4. Coastal municipal governance in Salacgriva county (Latvia)
 5. Coastal zone management in Pärnu (Estonia)
 6. Fish distribution and productivity in Danish coastal waters (Denmark)
 7. Alternative scenarios and modelling in SAF applications: Mussel cultivation in the western Oder Lagoon (Germany).

The target groups are master students, young post-graduates up to young PhD students. Summer school will be held in English; therefore a good English language is required. Work experience in coastal research and management field is an advantage.

Location

University of Latvia is hosting this year BONUS BaltCoast Summer School and it will take place in Riga at University premises and in BONUS BaltCoast case study areas in Salacgriva district (Latvia) and Parnu town (Estonia).

Participation costs

There is no course participation fee. Course material, accommodation, lunchtime meals and coffee breaks during the course training days are covered by the BONUS BaltCoast project. Travel costs to/from Riga have to be covered by the participants.

Application requirements

Applicants should deliver these documents:

- Filled application form:
https://docs.google.com/forms/d/1zswavFXkPgt13G-yFg45lj83kzUKHZ8AmCug89n8GMQ/viewform?edit_requested=true;
- Personal CV.

Application is valid after you upload application form and send us your CV to the following contact e-mail: **summerschool2017@lu.lv**

Registration deadline:

2nd June 2017

The maximum number of participants are 20. The selection committee will notify all applicants before **7 June 2017**.

Contacts

For all inquiries contact:

BONUS BaltCoast project Latvian team - summerschool2017@lu.lv

BONUS BaltCoast Summer School 2017 organization

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