

Preliminary program for the  
**ICCROM International course**  
**«Wooden architecture conservation and restoration»**  
 Training program = 21 days and nights (11 - 30 September)  
 10 September (arrival day) – 1 October (departure day) 2017

№	Subject	Venue	Number of hours		
			Org	Lect	Pract
	10.09., SUN Arrival to Petrozavodsk. Accommodation				
<b>11.09, MON</b>					
<b>Introduction. Part 1. Wooden architecture. Monuments of the Kizhi Architectural Ensemble</b>					
1.	1	Registration. Welcoming from the Kizhi museum, Ministry of Culture, Petrozavodsk University. Practical and presentation information.	Kizhi museum city office		
1.	2	Where are we? General information about the Republic of Karelia and the Kizhi museum. Introduction to Part 1 of the program.	Kizhi museum city office	1	
1.	3	Wooden architecture as an art form. Wooden architecture monuments – UNESCO World Heritage Sites (Norway, Japan, Russia and others).	Kizhi museum city office	2	
1.	4	Lunch break			
1.	5	Features of the Russian wooden architecture (religious and civil structures). Terminology of folk wooden architecture. Architectural ensembles of the Russian North.	Kizhi museum city office	2	
1.	6	Problems of wooden architecture monuments museumification.	Kizhi museum city office	2	
<b>12.09, TUE</b>					
<b>Part 2: Timber as construction material (an overview) + excursion trip to the forest</b>					
2.	1	Introduction to Part 2 of the program.			
2.	2	Structure, species, and properties of wood.	Kizhi museum city office	2	
2.	3	Quality of wood. Defects of wood.	Kizhi museum city office	1	
2.	4	Field class: Search and harvesting of restoration material	Republic of Karelia		4
<b>13.09, WED</b>					
<b>Part 2: cont.</b>					
3.	1	Durability of wooden structures. Wood protection and timber storage regulations.	Kizhi museum city office	2	
3.	2	Dendrochronology.	Kizhi museum city office	1	
3.	3	Lunch break.			
3.	4	Wood species composition. Excursion to the Karelian birch exposition.	Karelian Research Centre of the Russian Academy of Sciences		4
<b>14.09, THU</b>					
<b>Part 3: Cultural heritage study and preservation + field class in the Kondopozhsky region</b>					
4.	1	Introduction to Part 3 of the program.			
4.	2	Field visit to the wooden monuments of the Republic of Karelia.	Republic of Karelia		4
4.	3	Lunch break.			

4.	4	Conservation and comprehensive preventive maintenance of wooden architecture.	Kizhi museum city office		1	
4.	5	Comprehensive monitoring of wooden architecture.	Kizhi museum city office		1	
4.	6	Principles for the preservation of historic timber structures, ICOMOS, 1999. Venice Charter. Nara Document on Authenticity.	Kizhi museum city office		2	

### 15.09, FRI

#### Part 3: Cultural heritage study and preservation + excursion to the historical quarter of Petrozavodsk

5.	1	Partners' experience in wooden architecture restoration and conservation.	Kizhi museum city office		2	
5.	3	1) Historical district of Petrozavodsk; 2) Smithy: "Smithing in carpentry".	Historical district of Petrozavodsk			4
5.	4	Lunch break.				
5.	5	City wooden churches (old and new) – traditions and renewals.	Petrozavodsk			2

### 16.09, SAT

#### Transfer to Kizhi Island. Accommodation. Acquaintance with exposition. FREE TIME

6.	1	Transfer to Kizhi. Accommodation.				
6.	2	Instruction on visiting rules, safety requirements and modes established on Kizhi Island.	Classroom on Kizhi Island			
6.	3	FREE TIME				
6.	4	Informal evening party on Kizhi Island.		2		

### 17.09, SUN

7.	1	Sightseeing tour on the main exposition of the Kizhi museum. Monuments of the Kizhi Architectural Ensemble. Space planning decision features and artistic features of the buildings. The interior and iconostasis of the Church of the Intercession.	Main exposition of the Kizhi museum. Kizhi Pogost		4	
7.	2	Lunch break.				
7.	3	General principles, the main stages of wooden architecture restoration.	Classroom on Kizhi Island		2	
7.	4	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		

### 18.09, MON

#### Part 3: cont.

8.	1	Work in groups in the exposition: - Wooden architecture monitoring and comprehensive preventive maintenance equipment and techniques; - Peculiarities of wooden architecture inspection.	Exposition of the Kizhi museum			3
8.	2	Lunch break.				
8.	3	Practical work in groups: 1) Monitoring – identification of high humidity areas. Determination of places for installing moisture meters. 2) Identification of wood defects. Making up a statement.	Exposition of the Kizhi museum			4

		According to work results: comments of experts on the work of every group.	Classroom on Kizhi Island			1
8.	4	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		
<b>19.09, TUE</b>						
<b>Part 3: cont.</b>						
9.	1	Research of monuments.	Classroom on Kizhi Island		2	
9.	2	Methods of wooden architecture monuments dating on constructive features.	Classroom on Kizhi Island		2	
9.	3	Lunch break.				
9.	4	Work in the exposition: - Research of monuments; - Methods of wooden architecture monuments dating on constructive features.	Exposition of the Kizhi museum			4
9.	5	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		
<b>20.09, WED</b>						
<b>Part 4: Traditional carpentry</b>						
10.	1	Introduction to Part 4 of the program. Detailed program.				
10.	2	Carpentry and joinery tools. Working techniques. Evolution of carpentry.	Restoration complex of the Kizhi museum		2	
10.	3	Visit to the museum repository. Carpentry and joinery tools: 1) collection of tools "Metal"; 2) collection of tools "Wood"; 3) collection of wooden furniture.	Museum repository on Kizhi Island		2	
10.	4	Lunch break.				
10.	5	Practical work in groups "Traditional carpentry techniques".	Restoration complex of the Kizhi museum			4
10.	6	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		
<b>21.09, THU</b>						
<b>Part 5: Restoration of wooden architecture monuments</b>						
11.	1	Introduction to Part 5 of the program.				
11.	2	Measurements of monuments. Drafts, drawings. Laying out.	Classroom on Kizhi Island		2	
11.	3	Constructive features of wooden architecture monuments. Marking.	Classroom on Kizhi Island		2	
11.	4	Lunch break.				
11.	5	Practical work in groups "Traditional carpentry techniques".	Restoration complex, exposition			4
11.	6	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		
<b>22.09, FRI</b>						
<b>Part 5: cont.</b>						

12.	1	Work in the exposition: - Joints and junctions; - Types of foundations, roofs, windows, doors, wooden architecture decoration; - Methods of wooden architecture monuments dating on constructive features.	Restoration complex, exposition		4	
12.	2	Lunch break				
12.	3	Practical work in groups "Traditional carpentry techniques".	Restoration complex, exposition			4
12.	4	Presentations of the course participants (2 participants).		1		
<b>23.09, SAT</b>						
<b>Part 5: cont.</b>						
13.	1	Practical work in groups "Traditional carpentry techniques".	Restoration complex, exposition			4
13.	2	Lunch break.				
13.	3	Kizhi Necklace monuments.	Buffer zone historical villages		4	
13.	4	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		
<b>24.09, SUN FREE DAY</b>						
14.		FREE DAY				
<b>25.09, MON</b>						
<b>Part 5: cont.</b>						
15.	1	Methods of wooden members restoration (prosthesis, reconstruction, replication, etc.). Basics of strength of materials and structural mechanics in wooden structures restoration.	Classroom on Kizhi Island		2	
15.	2	Review of several wooden architecture restoration projects (implemented in previous years). Analysis of the performed restoration works.	Exposition of the Kizhi museum		2	
15.	3	Lunch break.				
15.	4	Practical work in groups "Restoration of wooden architecture monuments".	Exposition of the Kizhi museum			4
15.	5	Presentations of the course participants (2 participants).	Classroom on Kizhi Island	1		
<b>26.09, TUE</b>						
<b>Part 5: cont.</b>						
16.	1	Practical work in groups "Restoration of wooden architecture monuments".	Restoration complex, exposition			4
16.	2	Lunch break.				
16.	3	Practical work in groups "Restoration of wooden architecture monuments".	Restoration complex, exposition			4
16.	4	Groups presentations and discussion of results of the groups' work on the subject "Restoration of wooden architecture monuments".	Classroom on Kizhi Island			2
<b>27.09, WED</b>						
<b>Part 5: cont.</b>						

17.	1	Restoration of a wooden iconostasis (on the example of the iconostasis of the Intercession Church).	Museum repository on Kizhi Island		1	3
		Lunch break.				
		Transfer to Petrozavodsk. Accommodation.				
<b>28.09, THU</b>						
<b>Departure to Petrozavodsk. Preparation for the final test</b>						
18.	1	Visit to a site in restoration.	Republic of Karelia			4
18.	2	Preparation to the test. Consultations. Independent work.				4
<b>29.09, FRI</b>						
<b>Part 5: Final part</b>						
19.	1	Peculiarities of restoration of wooden members in stone buildings.	Kizhi museum city office		2	
		Modern technologies in monuments study (IT and BIM).	Kizhi museum city office		2	
19.	2	Lunch break.				
19.	3	Final test.	Kizhi museum city office			4
<b>30.09, SAT</b>						
<b>Summing up the results (evaluation of tests). Excursion trip to the Pryazhinsky region. Completion of the course.</b>						
20.	1	Field class to the wooden monuments of the republic of Karelia	Republic of Karelia			5
20.	2	Closing ceremony and certificates awarding				
<b>01.10, SUN Departure of the participants</b>						
		Departure day				
		<b>TOTAL: 144 academic hours</b>		<b>10</b>	<b>54</b>	<b>80</b>

**TOTAL:**

	Dates	Days and nights:
<b>Petrozavodsk</b>	10.09 - 16.09	<b>6</b>
	27.09 - 01.10	<b>4</b>
<b>Kizhi</b>	16.09 - 27.09	<b>11</b>
	<b>TOTAL:</b>	<b>21</b>