



**South Baltic Science Camp 2011 (03-11.09.2011 Białą Góra, 12.09.2011 Sopot-Science Meets School),  
Annotated agenda**

<b>Date /Time</b>	<b>Agenda Item</b>	<b>Annotations</b>
<b>03.09 Sat</b>	<b>Białą Góra</b>	<b>Address</b>
	Arrival and accommodation Welcome meeting including setting 5-student Workgroups according to proposed scientific topics. Group's photo	Monitoring Station of Adam Mickiewicz University at Białą Góra, Wolin Island (West Pomeranian). Białą Góra 6, 72-500 Międzyzdroje Manager: dr Jacek Tylkowski tel. +48 91 3222939
<b>04.09 Sun</b>	<b>Białą Góra</b>	
8.00	Breakfast	
9.00	Tour around the Wolin Island - visiting of interesting places (cliffed coast, Szczecin-lagoon and back delta of Świna-river).	T. Łabuz, J. Tylkowski Introduction to landforms, geomorphology, quaternary geology and glacial processes
13.00	Lunch	
14.00	Lecture and visit at Białą Góra meteorological station - Implementation to meteorology.	Keyword: 'water level fluctuation'(What forces? Are there tides at the Baltic Sea?)
15.45	Test of Module 1 - 'History of the Baltic Sea'	
19.00	Supper	
20.00	Walk to Międzyzdroje	
<b>05.09 Mon</b>	<b>Białą Góra</b>	
8.00	Breakfast	
9.00	Excursion to Świnoujście	
10.00	Work in parallel groups Group 1: Cruise by chartered vessel to the Pomeranian Bay. Short introduction to "off-shore" work methods, sampling (water, sediment, plankton) and measuring of key water	T. Radziejewska First processing of samples taken

	parameters. Group 2: Field exercises of geomorphology of the coast zone, cross section of the beach zone (across dune – beach – shallow water ), leveling, GPS-technique.	from the Pomeranian Bay.  T. Łabuz Sediment sampling.
13.00	Lunch at Świnoujście	
14.00	Continuation of work in parallel groups	Exchange of groups
19.00	Supper	
20.00	Entertainment	
<b>06.09 Tue</b>	<b>Biała Góra</b>	
8.00	Breakfast	
9.00	Processing of samples taken from the Pomeranian Bay (follow-up). Microscopic analysis of plankton samples – <i>T. Radziejewska, D. Krawczyk</i> Nutrients content (N, P) measurment in the water-samples – <i>A. Strzelecka</i> . Analysis and interpretation of results	Research complex of Biała Góra
14.00	Lunch	
15.00	Coastal dynamics and protection	Lecture
15.45	Excursion to Trzęsacz (destroyed church on the coast) and other locations (examples of coastal erosion), measurement of coastal current. Sampling and collection of the rocks from the beach.	<i>N. Chrzastowska, P. Szmytkiewicz,</i>  <i>W. Bartholomeus</i>
20.30	Supper	
21.00	Free time	
<b>07.09</b>	<b>Biała Góra</b>	
8.00	Breakfast	
9.30	Departure to Świnoujście	Bus
10.30	Cruise around Szczecin Lagoon to Szczecin	Speed boat across harbour, old shipyard, industrial plants
12.30	Visit to University of Szczecin (Faculty of Earth Sciences) Work in 3 groups: Group 1: lecture on marine microfossils (diatoms), introduction to preparation methods, practical tutorials, demonstration and use of microscopy techniques. Group 2: practical presentation in chemical lab (heavy metals, nutrient's analysis). Group 3: visit to Uni-Museum of Minerals + lecture (presentation) about contamination of Szczecin Lagoon, environmental protection of the Baltic Sea-system (water- and sediment contamination, major pollutants, protection methods and solutions).	Welcome  <i>T. Radziejewska, D. Krawczyk</i>  <i>A. Strzelecka</i>  <i>Ł. Maciąg</i>

14.00	Lunch (sandwiches)	
16.00	Sightseeing of Szczecin	
19.00	Dinner	
20.30	Return trip to Biała Góra via Świnoujście	
<b>08.09 Thu</b>	<b>Biała Góra</b>	
08.00	Breakfast	
09.00	Tutorials in 2 groups. 1. Evaluation and interpretation of geomorphological exercises and field measurements of Mon. 05. Sept. 2. Sediment analysis in lab (sieving), interpretation of data (grain size distribution)	T. Łabuz
11.45	Theoretical introduction to geology (dating methods, short course of mineralogy and petrology, most relevant sedimentary processes, essentials of ice age phenomena).	W. Bartholomeus Overview of chosen fields' methods (mostly marine and quaternary geology)
14.00	Lunch	
15.00	Practical fieldworks in 2 teams: 1. Sediment-drilling 2. Geological fieldwork at the Outcrops (moraine till)	
19.00	Supper	
20.00	Free time	
<b>09.09 Fri</b>	<b>Biała Góra</b>	
08.00	Breakfast	
09.00	Analysis of rock samples in lab	Petrological identification, classification of indicator erratics, reconstruction of "theoretically erratic center" in Scandinavian
14.00	Lunch	
15.00	Practical exercises in coastal protection	Erosion simulations and choice of suitable protection methods
16.45	Meeting with marine scientist	Presentation
17.45	Developing of poster's and PP presentation's templates for Science Meets School Meeting in Sopot, 12 <sup>th</sup> Sept., 2011	File in Microsoft PowerPoint Presentation, scheme of poster: background, logos, title, authors, introduction, materials and methods, results, conclusions

19.00	Supper	
20.00	Free time	
<b>10.09 Sat</b>	<b>Biała Góra</b>	
08.00	Breakfast	
09.00	Final summary of results	Preparation of posters and presentations
14.00	Lunch	
19.00	Finalization of work on posters and presentations	Sending by e-mail poster's files in PDF for printing to IO PAN, Sopot
19.00	Supper	
20.00	Free time	
<b>11.09 Sun</b>	<b>Biała Góra/Sopot</b>	<b>Address in Sopot</b>
08.00	Breakfast	
	Check out and trip to Sopot	Stop in Łeba - visiting Słowiński National Park (active dunes)
	Lunch	on the way
abt 18-	Arrival and accommodation in Sopot Kamienny Potok	OW Sopot Kamienny Potok "Natura Tour" 81-548 Gdynia, Bernadowska 1 Tel.: + 48 58 7212157 <a href="http://www.kamiennypotok.naturatour.pl/">www.kamiennypotok.naturatour.pl/</a>
abt. 20-	Friendly meeting ending the camp	Campfire
<b>12.09 Mon</b>	<b>Sopot</b>	
08.00	Breakfast	
09.00	Visiting IO PAN	Institute of Oceanology / PAN ul. Powstańców Warszawy 55 81-712 Sopot Tel.: +48 58 7311718 <a href="http://www.iopan.gda.pl">www.iopan.gda.pl</a>
10.00	'Science Meets School' including poster session and school students' presentations	Meeting at IO PAN (1 <sup>st</sup> part) Separate agenda for the meeting
12.00	Lunch	
12.30	'Science Meets School' including panel discussion	Meeting at IO PAN (2 <sup>nd</sup> part) Separate agenda for the meeting
15.00	Closing the meeting / Departures	

## Topics

1:

### **Dynamic geomorphology at the coastal zone (erosion and accumulation processes)**

Advisor: Tomasz Łabuz (University of Szczecin)

2:

### **Baltic Sea as living space (thematic priority: plankton + benthos)**

Advisor: Teresa Radziejewska (University of Szczecin)

3:

### **Weather- and climate-research**

Advisor: staff member of University of Poznań

4:

### **Quaternary geology**

Advisor: Werner Bartholomäus (Hannover)

5:

### **Coastal protection**

Advisor: Piotr Szmytkiewicz, Natalia Chrząstowska (IBW PAN-Gdańsk)

6:

### **Alternative : Environmental protection**

Advisor: Artur Skowronek (University of Szczecin)