

IX meeting of Interdisciplinary Polar Studies (2nd year) in IO PAN Sopot

22-26 May 2017

WORKSHOP III: MODERN METHODS IN THE STUDY OF MARINE SYSTEMS

22 May (Monday)

9:15 – 10:00 Lecture: Taxonomy - yesterday, today and tomorrow (dr K. Grzelak)

10:00 – 10:45 Lecture: Large datasets in biological oceanography-opportunities and perspectives (dr hab. K. Błachowiak-Samołyk)

10:45 – 11:00 Coffee break

11:00 – 11:45 Lecture: Laser optical plankton counter – new opportunities in estimation of plankton size structure (dr E. Trudnowska)

11:45 – 12:30 Lecture: Optical methods in oceanography (dr hab. S. Sagan)

12:30 – 14:00 Dinner

14:00 – 14:45 Lecture: Radionuclides as tools for studying oceanographic processes (dr Agata Zaborska)

14:45 – 15:30 Lecture: Underwater observational methods in marine ecology (dr P. Bałazy)

15:30 – 16:15 Lecture: Methods used in modern food web studies (dr J. Legeżyńska)

23 May (Tuesday)

9:30 – 11:30 Field workshop (at the Orłowo Cliff) (dr R. Sokołowski)

11:30 – 13:30 Dinner, return to IO PAN

13:30 – 14:15 Lecture: Introduction to genetics methods (dr hab. A. Burzyński)

14:15 – 15:00 Seminar: Introduction to genetics methods (dr hab. A. Burzyński, mgr inż. M. Lubośny)

24 May (Wednesday)

9:15 – 10:00 Lecture: Acoustical techniques in the Ocean investigations - Acoustic Oceanography (prof. dr hab. Z. Klusek)

10:00 – 10:45 Lecture: Resolving trophic links in a complex food webs - mixing models application (mgr E. Jankowska)

10:45 – 11:00 Coffee break

11:00 – 11:45 Lecture: Use of autonomous underwater vehicle in the Baltic Sea studies (dr hab. J. Bełdowski)

11:45 – 12:30 Lecture: Modern methods in paleoceanography (dr M. Telesiński)

**12:30 – 14:00** Dinner

**14:00 – 14:45** Lecture: Modern methods in seabirds investigation (dr hab. D. Jakubas)

**15:00 – 15:45** Lecture: Modern analytical techniques in marine biogeochemistry (dr K. Kuliński)

### **25 May (Thursday)**

**9:15 – 16:00** Field workshop (r/v „Oceania”): Overview of data/samples collection techniques (dr hab. K. Bachowiak-Samołyk, dr J. Legeżyńska, dr E. Trudnowska, mgr M. Krawczuk, mgr K. Deja)

### **26 May (Friday)**

**9:30- 10:45** International Sopot Youth Conference “Where the world is heading?”, Session I: Polar Studies

9:30 – 9:45 Near surface variability of the water properties in relation to the ocean color remote sensing in the European Arctic (*M. Konik, IO PAN*)

9:45 – 10:00 Submesoscale Atmospheric Boundary Layer Processes over Fragmented Sea Ice (*M. Wenta, A. Herman, University of Gdansk*)

10:00 – 10:15 Feeding activity and diet of Antarctic herbivorous copepods in response to change in phytoplankton community composition (Admiralty Bay, South Shetland Islands) (*B. Jerzak, M. I. Zmijewska, A. Zgrundo, University of Gdansk*)

10:15 – 10:30 Melting glaciers – an inconspicuous threat to polar zooplankton (*M. Walczynska, M. Manko, A. Weydmann, University of Gdansk*)

10:30 – 10:45 Can we use our brain to study climate change? (*I. Wrobel, IO PAN*)

**11:00 – 13:30** Reporting meeting (prof. Tymon Zieliński)

**13:30 – 15:00** Dinner