

2014 ECORD Summer School on „Subseafloor Biosphere: Current Advances and Future Challenges“

	Monday, Sept. 22, 2014	Tuesday, Sept. 23, 2014	Wednesday, Sept. 24, 2014	Thursday, Sept. 25, 2014	Friday, Sept. 26, 2014
	Welcome & self-introduction	Summing up of previous day by participants (15 minutes)			
08:30 – 09:30	Steve D’Hondt: The deep subseafloor biosphere: an overview	Fumio Inagaki & Andreas Teske: Methodological advances for the identification of subseafloor communities and their activities	Henrik Sass: Cultivation of subseafloor microbes	Kai-Uwe Hinrichs: Lipids of subseafloor microbes	Gunter Wegener: Stable isotope probing to characterize subseafloor microbes
09:30 – 10:30	Jan Amend: Limits of life in the deep biosphere		Mark Lever: QA/QC: Contamination control, sampling and sample storage	Bo Barker Jørgensen: Biogeochemical processes in deep subseafloor sediments	Verena Heuer: Stable carbon isotope chemistry for the characterization of carbon cycling in the deep biosphere
10:30 – 11:00	Coffee Break				
11:00 – 12:30	6 Participants’ Presentations				
12:30 – 13:30	Lunch Break				
13:30 – 14:30	Andreas Teske: Composition and biogeography of the deep subseafloor biosphere	Axel Schippers: On the role of Bacteria and Archaea in the deep biosphere	Virtual Ship Lab turn #1 in three rotating groups A. Microbiological methods for the quantification of microbial (J Kallmeyer, RR Adhikari) B. Sample handling and contamination control communities (M Lever, M Bowles, G Wegener) C. Techniques for cultivation of microorganisms from the deep subseafloor (B Engelen, H Sass)	Marshall Bowles: Modeling of subseafloor sulfate fluxes	Jan Amend: Biogeochemical processes in the deep biosphere of oceanic and continental crust
14:30 – 15:30	Introduction to IODP and ECORD Ursula Röhl: Introduction Virtual Ship	Bert Engelen: On the role of viruses in the deep biosphere		Henrik Sass: Feeding the deep biosphere with thermogenic degradation products of organic matter	Wolfgang Bach: Ocean crust geological processes and implications for microbial habitats
15:30 – 16:00	Coffee Break				
16:00 – 17:00	Walter Hale: IODP core and sample curation Ursula Röhl & Walter Hale: MARUM und BCR tour	Jens Kallmeyer: Quantification of subseafloor communities & global biomass		Gerhard Bohrmann: Gas hydrates and seafloor dynamics	Beth Orcutt: Ridge Flank Microbiology Gleaned from Borehole Observatories (IODP Exps 327 and 336)
17:00 – 18:00	Fumio Inagaki: The Shimokita Deep Coalbed Biosphere (IODP Exp. 337)	Steve D’Hondt: South Pacific Gyre Subseafloor Life (IODP Exp. 329)		Bo Barker Jørgensen: Baltic Sea Basin Paleoenvironment (IODP Exp. 347)	Closing discussion with all lecturers

Icebreaker Party

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	Monday, Sept. 29, 2014	Tuesday, Sept. 30, 2014	Wednesday, Oct. 01, 2014	Thursday, Oct. 02, 2014	Friday, Oct. 03
08:30 – 12:30	Virtual Ship Lab turn #2 in three rotating groups A. Microbiological methods for the quantification of microbial (J Kallmeyer, RR Adhikari) B. Sample handling and contamination control communities (M Lever, M Bowles, G Wegener) C. Techniques for cultivation of microorganisms from the deep subseafloor (B Engelen, H Sass)	Virtual Ship Lab turn #4 in three rotating groups A. Interstitial water chemistry (L Schnieders) B. Visual core description, smear slides (G Martinez, S Steinke) C. Physical properties subseafloor (H Kuhlmann, U Röhl)	Virtual Ship Lab turn #4 in three rotating groups A. Interstitial water chemistry (L Schnieders) B. Visual core description, smear slides (G Martinez, S Steinke) C. Physical properties subseafloor (H Kuhlmann, U Röhl)	Ursula Röhl & Jochen Erbacher: On the options for active participation in IODP Practical Unit 8 (Workshop) Preparation of drilling proposals and applications Presentation of proposal ideas by participants	
12:30 – 13:30	Lunch break			Round-up and Evaluation	
13:30 – 17:30	Virtual Ship Lab turn #3 in three rotating groups A. Microbiological methods for the quantification of microbial (J Kallmeyer, RR Adhikari) B. Sample handling and contamination control communities (M Lever, M Bowles, G Wegener) C. Techniques for cultivation of microorganisms from the deep subseafloor (B Engelen, H Sass)	Virtual Ship Lab turn #5 in three rotating groups A. Interstitial water chemistry (L Schnieders) B. Visual core description, smear slides (G Martinez, S Steinke) C. Physical properties subseafloor (H Kuhlmann, U Röhl)	Practical Unit 7 (Exercise) Sarah Davies Downhole Logging Integration		

Farewell BBQ

Saturday, Sept. 27: Field Trip to the German Natural Oil Museum in Wietze

Sunday, Sept. 28: free to explore Bremen

