

Program for Acoustic Communication 2024

Location: BI field station, Svanninge Bjerge, Marine Biological Research Center in Kerteminde & Department of Biology, SDU, Odense

Time	Sat Aug 3	Sun Aug 4	Mon Aug 5	Tues Aug 6	Wed Aug 7	Thu Aug 8	Fri Aug 9	Sat Aug 10
8-9		JCD: Introduction to the sound field	CE: Recording equipment: a basic setup	CE: Analysis software options	Transfer to Kerteminde (7.30)	Transfer to Kerteminde (7.30)	JT: Theoretical psychophysics	Presentations of labs E-H
9-10		LJ: Microphone essentials	Basic labs A-D (Teams 3-4-1-2)	MJ: SA1 – How to measure signals and noise	MW: Hydrodynamic sound field	JT: Passive monitoring	KH: Practical psychophysics	LJ: Array recording principles
10-11		MW: dB exercises			PTM: Hydrophones and the sonar equation	JT: Anthropogenic noise	Data analysis of labs E-H	Sound recordings in the field
11-12			Basic labs A-D (Teams 4-1-2-3)		PTM: SA3 - Clip levels and received level	JT: SA4 - Noise analysis		
12-13	Arrivals and registration. Exploring the site	Lunch		Lunch	Lunch	Lunch	Lunch, Group photo	Lunch
13-14		Basic labs A-D (Teams 1-2-3-4)	Lunch	MJ: SA2 – Filters and filtering	UW Labs E-H (Teams 1-2-3-4)	UW Labs E-H (Teams 3-4-1-2)	JT/CR: Psycho-physics ROC exercise	Afternoon off
14-15			Data analysis of basic labs					
15-16		Basic labs A-D (Teams 2-3-4-1)			UW Labs E-H (Teams 2-3-4-1)	UW Labs E-H (Teams 4-1-2-3)		
16-17			Presentation preparation	Presentation preparation				
17-18		Data analysis of basic labs	Presentation of labs A-D	Data analysis of labs E-H	Data analysis of labs E-H	Presentation of labs E-H		
18-19	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	
19.00-19.45	Welcome + Presentation of teachers and students	Poster session featuring participants’ projects	JCD: Sound perception	LJ: Bat echolocation	TBA	MW: Underwater hearing	JT: ROC evaluation	Evening off
19.45-20.30			IA: Songbirds	LJ: Bat excursion		CR: Acoustic communication		
...						Transfer to Svanninge	Transfer to Svanninge	

CE: Coen Elemans; **CR:** Colleen Reichmuth; **EFM:** Elodie Floriane Mande-Briefer; **IA:** Iris Adam; **JCD:** Jakob Christensen-Dalsgaard; **JHR:** Jeppe Have Rasmussen; **JT:** Jakob Tougaard; **KB:** Kristian Beedholm; **KV:** Karsten Vesterholm; **LJ:** Lasse Jakobsen; **MJ:** Mark Johnson; **MW:** Magnus Wahlberg; **NM:** Nicolas Mathevon; **ONL:** Ole Næsbye Larsen; **PTM:** Peter Teglberg Madsen; **SAZ:** Sue Anne Zollinger; **TA:** Tommi Anttonen.

In-air labs -Svanninge

Basic lab **A. LJ:** Microphone calibration

Basic lab **C. CE:** Recording sounds

Basic lab **B. KV:** Loudspeaker essentials

Basic lab **D. JCD:** Measuring vibrations JCD/ONL

Underwater labs-Kerteminde

Underwater lab **E. JT:** Hydrophone calibration

Underwater lab **G. MW:** Ambient noise

Underwater lab **F. PTM:** Source level of seal growl

Underwater lab **H. MJ:** Prey capture using D-tag

Technical lectures

Signal analysis exercises

Sound measuring labs

Bioacoustics topics

Student presentations

Program for Acoustic Communication 2024

Time	Sun Aug 11	Mon Aug 12	Tue Aug 13	Wed Aug 14	Thu Aug 15	Fri Aug 16	
8-9	Transfer to SDU	SAZ: Common parameters in papers & pitfalls	JHR: machine learning	KB: SA7 – Spectrogram optimization	LJ/JCD: Analysis of field recordings	Pack-up and clean	
9-10	Demonstrations 1-4	SAZ: SA5 - Common parameters in bioacoustics	JHR: SA6 – Machine learning			Presentation preparation	Evaluation part II, certificates, and farewell
10-11							
11-12							
12-13	Lunch	Lunch	Lunch.Group photo	Lunch	Lunch		
13-14	Demonstrations 1-4	Advanced labs I-L (Teams 1-2-3-4)	Advanced labs I-L (Teams 3-4-1-2)	Presentation of labs I-L	Presentation preparation		
14-15				LJ/JCD: Analysis of field recordings			Presentation of field recordings
15-16		Advanced labs I-L (Teams 2-3-4-1)	Advanced labs I-L (Teams 4-1-2-3)				
16-17	Evaluation part I						
17-18	Transfer to Svanninge	Data analysis of advanced labs	Data analysis of advanced labs		Free time		
18-19	BBQ	Dinner	Dinner		Party prepping		
19.00-19.45		NM: TBA	EFM: Vocal expression of emotions	Excursion to Naturama	Party!!		
19.45-20.30		ONL: Sound degradation					
...					To ∞ and beyond...		

Demonstrations SDU

Demonstration 1. **LJ:** Windtunnel

Demonstration 3. **TA:** Auditory Brainstem response

Demonstration 2. **JCD:** Laser Doppler vibrometry

Demonstration 4. **IA:** High-throughput sound recording

Advanced lab - Svanninge

Advanced lab I. **SAZ:** Playback calibrated signals

Advanced lab K. **ONL:** Transmission loss in the field

Advanced lab J. **JCD:** Enclosure acoustics

Advanced lab L. **LJ:** (Un)wanted reflections