

MARUM ROV Training Course

(2.4.2014 - 4.4.2014) MARUM - University Bremen Leobener Straße 28359 Bremen / Germany



Volker Ratmeyer & Nicolas Nowald

Participants:

Roger Johansson, Hans Olsson, Helen Sjöde Veerman, Lisbeth Johnsson, Tom Leymann, Siefke Fröhlich, Till von Wahl, Vincent Vittori



We will meet in **ROOM 0190** which is located on the ground floor. When you enter the MARUM entrance hall, pass the elevator on your right hand side. It is the last room to the right before the staircase.

Nico's mobile: 0049-176-52865914 Volker's mobile: 0049-176-62154470

PROGRAM:

Wednesday 2.4.2014, Room 0190

Begin: 12:00

Welcome

Who is who Workshop Program

MARUM activities / General Introduction

Research Infrastructure Underwater vehicles and applications

Examples for scientific ROV operations

Cherokee 1000 m Observation class ROV (Observation & Light sampling (Gas sampling)) QUEST 4000 m Work class ROV (Deep Sea Research, Elevator, 2-wire Operation, Cork Operation, Hydrothermal sampling)

Discussion: Situation in Kristineberg, Expectations from Workshop

Movie: HDTV Cinema Best of

ca. 15:00 Hall 2 coffee brake Arrange 4 groups each 2 persons

Block 1: Tour through the MARUM II Maintenance Hall

Groups 1-4	Short Infos about SEAL, H-ROV, MeBo
Group 1 & 2	Presentation of QUEST (VR)
Group 3 & 4	Presentation of Cherokee (NN), switch groups

End: ~18.00

Thursday 3.4.2014, Hall 2 and Room 2060

Begin: 09:00

9-11:00 h Hall 2

Block 2: Manipulation I

Group 1 & 2	Practice with the 5 function Manips HLK-EH5 and ECA-CSIP ARM5 (NN)
Group 3 & 4	Practice with the Rigmaster, Orion 7R and 7P in the simulation (VR), switch groups





Coffee break

11-13:00 h

Block 3: Manipulation II and Operation

Group 1 & 2	Practice with the Orion 7R (Pushcore sampling, T-Lance) (NN)
Group 3 & 4	Training Mission in the QUEST-SIM (VR)

ca. 13:00 -14:00 lunch

14-16:00 Switch groups Block 3

coffee brake

16:30 – 18:00 Room 2060

Block 4: Dive preparation, MOB & payload integration class workshop

Group 1 -4	Dive preparation,
(NN)	 Mission planning with the science party
	- Meeting with the bridge
	- Navigation Maps
	- Pre Dive Check
	- Dive and Sample Logging
	- Copyright agreement
Group 1-4	MOB and operations at sea
(VR)	- Adaption and mobilization of a ROV System on a research vessel
	- Payload and Sensor integration
	- Team structure and shifts
	- Organizing onboard repairs, maintenance

End: ~ 18.00

Friday: 4.4.2014, Hall 2, outside tank, Room 0190

Begin: 08:00

Block 5: Training dive and further training of choice

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Group 1 & 2	Cherokee Training dive in the outside tank (NN)
	Dive Preparation (Pay out tether, Pre-Dive Check)
	Deployment
	Mission: detect gas, mark position, sample gas
	Recovery
Group 3 & 4	Training of choice (SIM or Manip) (VR)

End: ~12.00