

# 5<sup>th</sup> Sino-German Symposium on Marine Sciences: “Multi-scale Processes in Ocean and Atmosphere”

Bremen, Germany

15-19 September 2019

University of Bremen, NW1, room S1360

<b>Monday, 16 September</b>			
8:00	Registration		
8:30	Opening Ceremony	Chair: LADSTÄTTER-WEIßENMAYER & CHEN XUEEN	
8:45	Group Photo		
<b>Time</b>	<b>Speaker</b>	<b>Title</b>	<b>Institution</b>
Session 1 Chair: Prof. Dr. Wolff Jörg-Olaf			
9:00	Prof. Dr. Wolff Jörg-Olaf	Macroplastics drift in the North Sea: Experiments using wooden and GPS-drifters reveal extreme circulation changes with the help of citizen science	ICBM Physical Oceanography University of Oldenburg
9:25	Dr. WANG Xuezhzhu	Mechanisms on controlling inter-annual variability of Atlantic Water inflow through the Nordic Sea into the Arctic	College of Oceanography, Hohai University
9:50	Dr. YANG Hu	Poleward shift of the major ocean gyres under global warming	Alfred Wegener Institute for Polar and Marine Research
10:15	Prof. Dr. FAN Wei	Multi scale progress and effective/side effective of artificial mixing engineering in Chinese coastal areas	Ocean College, Zhejiang University
<b>10:40 Coffee Break</b>			
Session 2 Chair: Prof. Dr. LI Xiaoming			
11:15	Dr. HUHN Oliver	Submarine melting at the 79 North Glacier, northeast Greenland	Institute for Environmental Physics IUP, Oceanography department, University of Bremen, Germany
11:40	Prof. Dr. GAO Guoping	Multi-scale wave-ocean-ice coupled model system for the Arctic Ocean	Shanghai Maritime University
12:05	Prof. Dr LI Xiaoming	Arctic sea ice extent by spaceborne synthetic aperture radar	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

<b>12:30 Lunch Break</b>			
Session 3 Chair: Dr. Weller Rolf			
14:00	Prof. Dr. v. SAVIGNY Christian	Volcanic impact on atmosphere and climate - overview of the DFG research unit VollImpact	Institute of Physics Ernst-Arndt-Moritz University of Greifswald
14:25	Dr. RICHTER Andreas	Observations of nitrogen dioxide pollution from local and global scale	Institute for Environmental Physics, University of Bremen
14:50	Dr. WELLER Rolf	Impact of the general weather situation on aerosol properties at the continental Antarctic site Kohnen	Alfred Wegener Institute for Polar and Marine Research
15:15	Dr. ZHANG Jialin	Environmental change affecting coastal ecosystems of tropical China during the Anthropocene	Leibniz Center for Marine Tropical research, University of Bremen
15:40	Dr. SCHARRINGHAUSEN Marco	Atmospheric Dynamics of the Martian Atmosphere and its Implications for Re-Entry	Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), German Aerospace Center, Institut für Raumfahrtssysteme
<b>16:05 Coffee Break</b>			
Session 4 Chair: Prof. Dr. Notholt Justus			
16:45	Prof. Dr. Notholt Justus	How does remote sensing work and how does it help to understand the climate?	Institute of Environmental Physics University of Bremen
17:10	Ass. Prof. Dr. HÄRTER Jan O.	Convective self-organization through cold pool interaction	Niels Bohr Institute University of Copenhagen
17:35	Dr. MEI Linlu	Arctic aerosol observed from space	Institute of Environmental Physics University of Bremen - FB1
19:00	Welcoming Dinner		
<b>Tuesday, 17 September</b>			
Session 5 Chair: Dr. WANG Song			
9:00	PD Dr. WARNEKE Torsten  PhD. KLEMME Alexandra	Investigation of the carbon cycle using Fourier Transform InfraRed (FTIR) spectrometry	Institute for Environmental Physics, University of Bremen
<u>9:25</u>	Dr. JIANG Zongpei	Physical and biogeochemical controls on pH dynamics in the northern Gulf of Mexico during hypoxia season	Ocean College, Zhejiang University
9:50	Dr. WANG Song	Large-scale production of high-value bioactive substances from marine microalgae	Jacobs University Bremen

10:15	Prof. Dr. LIU Sumei	Major nutrient sources and sinks and nitrogen biogeochemistry in the Chinese marginal seas	Key Laboratory of Marine Chemistry Theory and Technology, MOE  Ocean University of China
<b>10:40 Coffee Break</b>			
Session 6 Chair: Dr. LI Delei			
11:15	Dr. JI Xinran	Numerical research on multidirectional random waves progresses on the coupling model based on the potential theory and OpenFOAM	Hainan Academy of Ocean and Fisheries Sciences
11:40	Dr. LI Delei	An atmosphere-wave regional coupled model over the East China Sea: skills assessment of simulated wind and wave	Key Laboratory of Ocean Circulation and Waves, Institute of Oceanology, Chinese Academy of Sciences
12:05	Prof. Dr. SONG Jun	The water exchange between the Kuroshio and the East China Sea	Laboratory of Operational Oceanography,  Dalian Ocean University
<b>12:30 Lunch Break</b>			
<b>Guided tours to MARUM, IUP and ZMT</b>			
14:30	MARUM		
15:45	ZMT		
17:15	IUP, University of Bremen		
18:30	Dinner		
<b>Wednesday, 18 September</b>			
Session 9 Chair: Prof. Dr. LOHMANN Gerrit			
9:00	Prof. Dr. LOHMANN Gerrit	Climate detectives: deciphering clues from underground, theory and models	Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research
9:25	Dr. GONG Xun	Enhanced North Pacific deep-ocean stratification by stronger intermediate water formation during Heinrich Stadial 1	Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research
9:50	Prof. Dr. CHEN Xueen	Numerical investigation of internal tides in the northwest Pacific Ocean using a global circulation and tide model	College of Oceanic and Atmospheric Sciences,  Ocean University of China

10:15	Associate Prof. Dr. Qin Hao	Rogue wave and its influence on marine, offshore and coastal structures	College of Marine Science and Technology, China University of Geosciences
<b>10:40 Coffee Break</b>			
Session 10 Chair: Dr RICHTER Andreas			
11:15	Prof. Dr. SECKMEYER Gunther	Solar spectroradiometry - Past, present and future	Institute for Meteorology and Climatology University of Hannover
11:40	Dr. CAO Anzhou	Observed internal tides, near-inertial waves and upper ocean shear in the northern South China Sea	Ocean College, Zhejiang University
12:05	A/Prof Dr SONG Taoran	Characterization of the Conjugate Rifted Margins of South China Sea and Implication for Extension Model	Hainan Tropical Ocean University
<b>12:30 Lunch Break</b>			
14:00	PD Dr. LADSTÄTTER-WEIßENMAYER Annette / Prof. Dr.  CHEN Xueen  SGMS Group	opportunities of Sino-German Research funds; Brainstorming for future SGMS events and development (interaction with participants)	Bremen University / Ocean University of China
14:30	Summary from session chairs and discussions of possible collaborations		
<b>16:05 Coffee Break</b>			
16:45	Roundtable discussions for proposals of tentative joint research projects		
17:30	Summary		
18:30	Dinner		