

## Postdoc-project call 2012 selection symposium - Final

Kiel (Leibnizstrasse 1), October 9/10, 2012

Tuesday, 10/09/2012

### Session 1 (Room 204)

- 8.55 Opening G. Friedrichs
- 9.00 **Arvind Singh (R07 - Line A)**  
(Mentor: U. Riebesell)  
Nitrogen fixation in the ocean: Present and future scenarios
- 9.30 **Damian Grundle (R07 - Line A)**  
(Mentor: H. Bange, p.p. Treude)  
Nitrous oxide production through suboxic interfaces and sea-to-air fluxes at the sea-surface interface
- 10.00 **Kristian Laß (R07 - Line B)**  
(Mentor: G. Friedrichs)  
Advancing non-linear optical probes for ocean interfaces

10.30-11.30 Coffee break (Room 207)

- 11.30 **Steffen Aßmann (R10 - Line B)**  
(Mentor: A. Körtzinger, p.p. Friedrichs)  
Process studies of the carbonate system in highly dynamic regions and assessment of ocean acidification
- 12.00 **Rebecca Scott (R10 - Line B)**  
(Mentor: A. Biastoch, p.p. C. Eizaguirre)  
Turtles as oceanographers, Lagrangian analysis around Cape Verde

12.30-13.30 Lunchbreak (Room 207)

13.30 (Murmman-Hörsaal) Prof. M. Visbeck: The Future Ocean - Introduction to Kiel Marine Sciences

### Session 2 (Room 209)

- 8.55 Opening B. Schneider
- 9.00 **Juan Carlos Silva-Tamayo (R09 - Line B)**  
(Mentor: A. Eisenhauer)  
Investigating the effects of past global warming, ocean acidification and the de-oxygenation on marine biogeochemical cycles: A novel multi-proxy approach
- 9.30 **Uta Krebs-Kanzow (R09 - Line B)**  
(Mentor: B. Schneider)  
Interactions of the Atlantic Meridional Overturning circulation and the atmospheric hydrological cycle during the Last Glacial Termination
- 10.00 **Cecile Blanchet (R09 - Line B)**  
(Mentor: M. Frank)  
Feedback processes between land and ocean during interglacials in North Africa: Influence on human population dynamics

- 11.30 **Amita Jatkar (R04 - Line A)**  
(Mentor: S. Gorb)  
Mucin Gene and its functional role in health and bleaching of reef building corals

- 12.00 **Thomas Kleinteich (R04 - Line B)**  
(Mentor: S. Gorb)  
Holding tight - Suction adhesion in fishes of the rocky intertidal

14.30 **Henk-Jan Höving (R10 - Line B)**  
(Mentor: A. Körtzinger)  
In situ ocean observations of Cape  
Verdean pelagic communities in a  
changing ocean

15.00 **Mustafa Yucel (R10 - Line A)**  
(Mentor: T. Treude)  
Organic pulse-driven non-steady state  
biogeochemical dynamics in the anoxic  
marine sedimentary interface

15.30-16.30 Coffee break (Room 207)

16.30 **Amy Maas (R08 - Line A)**  
(Mentor: F. Melzner)  
Evolution of biomineralization in pelagic  
life stages of gastropods

17.00 **Sören Bolte (R08 - Line A)**  
(Mentor: P. Rosenstiel)  
Coevolution of immune genes and  
microbiota in an ancient ocean invader

17.30 **Meir Sussman (R08 - Line B)**  
(Mentor: T. Bosch, p.p. P. Rosenstiel)  
Understanding the interactions between  
environmental stress, transposable  
elements (TE's) and epigenetic  
modifications in the basal metazoan  
Hydra

18.00 **Mahasweta Saha (R08 - Line A)**  
(Mentor: M. Wahl)  
The drivers of algal invasion success:  
Adaptation and co-evolution of resistance  
towards foulers?

14.30 **Marlene Spinner (R04 - Line A)**  
(Mentor: S. Gorb)  
Surface microstructure and physical  
properties of fish scales as a basis for  
biomimetics

15.00 **Jie Song (R04 - Line A)**  
(Mentor: M. Bleich)  
Conoidean peptides - Novel ion channel-  
targeted peptides from the ocean

16.30 **Lena Göthlich (R11 - Line A)**  
(Mentor: R. Schulz)  
Maximizing the yield of microalgae  
cultures through combined lab and  
numerical models

17.00 **Malte Prieß (R11 - Line A)**  
(Mentor: T. Slawig)  
Surrogate-based optimization for marine  
Ecosystem models

17.30 **Lavinia Patara (R11 - Line A)**  
(Mentor: C. Böning)  
Southern ocean CO<sub>2</sub> uptake in high-  
resolution ocean-biogeochemistry  
simulations for the 20<sup>th</sup> and 21<sup>st</sup> centuries

18.45 Taxitransfer to the Zoological Museum Kiel, Hegewischstrasse 3

19.00 Get together at the Zoological Museum

**Wednesday, 10/10/2012**

**Session 1 (Room 204)**

- 8.30 **Ulrike Kronfeld-Goharani (R01 - Line B)**  
(Mentor: D. Nabers)  
The sustainability approach on the high seas
- 9.00 **Juan-Carlos Molinero (R01 - Line B)**  
(Mentor: M. Quaas)  
Towards predicting pelagic food web network responses to the global ocean changes and their impacts on sustainability science
- 9.30 **Jörn Schmidt (R01 - Line B)**  
(Mentor: M. Quaas)  
From Heiligenhafen to New York and back - Transdisciplinary research for better fisheries governance
- 10.00 **Barbara Neumann (R01 - Line B)**  
(Mentor: A. Vafeidis)  
Coastal sustainability and governance

10.30-11.00 Coffee break (Room 207)

- 11.00 **Milena Arias Schreiber (R02 - Line A)**  
(Mentor: N. Matz-Lück)  
Up-scaling fisheries governance: Learning from national and local successful fisheries cases and influential global markets
- 11.30 **Nengye Liu (R02 - Line A)**  
(Mentor: N. Matz-Lück)  
The European Union and the protection on Marine Biodiversity in the Arctic
- 12.00 **Yoshinobu Takei (R02 - Line A)**  
(Mentor: N. Matz-Lück)  
Tools and Steps for the Reform of Ocean Governance: Legal and Institutional Aspects

12.30- 13.30 Lunch break (Room 207)

**Session 2 (Room 209)**

- 8.30 **Mark Schürch (R06 - Line A)**  
(Mentor: A. Vafeidis)  
Salt marsh development under the influence of decadal and climate variations
- 9.00 **Yujin Kitamura (R06 - Line B)**  
(Mentor: J. Behrmann)  
Geological substances of the ordinary and slow earthquakes in subduction zone
- 9.30 **Pieter Vandromme (R05, R11 - Line A)**  
(Mentor: A. Oschlies)  
Modelling zooplankton and its impacts of marine ecosystems and particle fluxes in the future ocean
- 10.00 **Lee Bryant (R05 - Line A)**  
(Mentor: K. Wallmann)  
Evaluating the influence of natural CO<sub>2</sub> seepage on sediment-water fluxes as an analogue for sub-seabed CO<sub>2</sub> storage

- 13.30 **Sebastian Hölz (R03 - Line A)**  
(Mentor: S. Petersen)  
Coincident loop electromagnetics - a novel method for the detection and characterization of marine massive sulfide deposits
- 14.00 **Jens Schneider (R03 - Line B)**  
(Mentor: L. Rüpke)  
Hydroacoustic in situ monitoring:  
Constraining the environmental impact of human seafloor interventions
- 14.30 **Rüdiger Voss (R03 - Line B)**  
(Mentor: M. Quaas)  
Successful, commonly accepted fisheries management needs economics!