



RGNO - Regional Graduate Network in Oceanography
SAM NUJOMA CAMPUS & MARINE and COASTAL RESEARCH CENTER and
NATIONAL MARINE INFORMATION AND RESEARCH CENTER

Scientific Knowledge applied to the sustainable Use and Management of marine upwelling and coastal Ecosystems and their Resources

Workshop on Research Needs in Ocean Sciences and Presentation of Results of the RGNO Capacity Building Course 2016

Symposium Program, Wednesday, June 1, 2016, 09.15 -17.15

RGNO Open Symposium Day hosted by Nat MIRC in Swakopmund.

07.30 *Depart from Namsof Residence*

09.15 *Welcome and Outlook for Research Collaborations at NatMIRC*, Hannes Holtzhausen, NatMIRC, MFMR

09.35 *Introduction to the 2016 RGNO Symposium*, Kurt Hanselmann, ETHZ, Switzerland

09.40 Written statements: *Namibia Fisheries*, by Jan Arnold, Bidvest Namibia Fisheries Holdings (Pty) Limited AND *Needs for future investigations and capacity building in Ocean Geobiosciences from GSN's point of view* by Aphary Muyongo, Israel Hasheela, Ewereth Muvangua, Gloria Simubali, Geological Survey of Namibia.

Morning Session chaired by Edosa Omoregie
Presentations last 25 minutes, discussion included

09.45 *Current and Future Developments at SANUMARC and the Sam Nujoma Campus*
Johannes A Iitembu, Dept. Fisheries and Aquatic Sciences of UNAM, Sam Nujoma Campus and SANUMARC, Namibia

10.10 *The Importance of integrated Studies and/or Research: What impacts what, how and when, and how does it affect my Understanding of my Work / Field of Research?*
Frikki Botes, NatMIRC, Namibia

10.35 Break and Poster Session

11.00 *Research Requirements for the Mariculture Industry*
Jacobus Blaauw, Mariculture Industries, Namibia

11.35 *Benthos Research Needs - The Role of Benthos in Ocean Ecosystem Functioning*
Bronwen Currie, MFMR, Namibia

12.00 *Science prospects for NatMIRC in collaboration with.....*
Deon Louw, Nat MIRC, Namibia

12.30 *The global Ocean Acidification Network- where does the Benguela Upwelling System fit in?*
Chibo Chikwililwa, SANUMARC, Namibia

Afternoon Session chaired by Kurt Hanselmann
Presentations last 20 minutes, discussion included

14.00 *Concentration and Dissolution of Trace Metals from known Dust Sources in Namibia - How Namibian Deserts are fertilizing the Ocean from above*

Kaukurauee Ismael Kanguuehi, University of Stellenbosch, Earth Science Department, Stellenbosch, South Africa

14.20 *Microbial Formate Dehydrogenase Activity in Shelf Sediments of the Benguela Upwelling Ecosystem - Formate, a link between Sulfide Production and Methanogenesis*

Philip Eickenbusch, ETH Zurich, Department of Environmental System Sciences, Switzerland

14.40 *Composition of Nematodes in Comparison with Annulids Distribution across the Northern Benguela Upwelling System in Namibia - Why are Nematodes good Indicator Organisms to study benthic-pelagic Food-Chain Interactions*

Beth Wangui Waweru, Kenya Marine and Fisheries Research Institute, Mombasa, Kenya

15.00 Break and Poster Session

15.20 *Distribution of Macrobenthos across the Oxygen Minimum Zone in the Northern Benguela Upwelling System - How tolerant are Organisms towards Hypoxia?*

Said Mohamed Hashim, University of Nairobi, School of Biological Sciences, Nairobi, Kenya

15.40 *Spatio-temporal Variability and vertical Distributions of Picophytoplankton in the Southern Benguela as compared to the Northern Benguela - What makes Picophytoplankton major Primary Producers in our Oceans?*

Zimkhita Gebe, University of Cape Town, Department of Biological Sciences, South Africa

16.00 *Temporal and spatial Comparisons of Nutrient Limitation and Redox Stability in the Benguela Upwelling System - How Nitrogen Cycling and Nitrogen Loss can be studied applying stable Nitrogen Isotope Techniques*
Leanne Grace Hancock, University of California Riverside, Department of Earth Science, Riverside, California, USA

16.20 *Spatial and vertical Distribution of Coccolithophores and its Relationship to Surface Water Dynamics in the Benguela Upwelling System - Environmental Control on calcifying Primary Producers off the Coast of Namibia*

Blanca Ausin, ETH Zurich, Dept. of Earth Sciences. Switzerland

13.00 Lunch Break. Standing Lunch at Nat MIRC offered by the RGNO

13.30 *Presentation of NatMIRC Facility and Aquarium*
Bronwen Currie and Hannes Holtzhausen, NatMIRC

17.00 *Summary of RGNO Symposium and Compilation of future Research Needs*

Johannes A Iitembu, UNAM, Dept. of Fisheries and Aquatic Sciences

18.00 Bus departs from Nat MIRC for Henties Bay

Sponsors of RGNO Course Activities 2016



Scientific Knowledge applied to the Sustainable Use of Coastal Upwelling Ecosystems

Microbial and Geochemical Oceanography in Upwelling Ecosystems

Symposium Program, Tuesday, June 2, 2015, 09.30 -18.00

RGNO Open Symposium Day hosted by NatMIRC in Swakopmund.

08.00 Depart from Namsof Residence

09.30 *Welcome at NatMIRC*

Chris Bartholomae, NatMIRC, MFMR

09.35 *Introduction to the Symposium and
Review of the RGNO 2015*

Kurt Hanselmann, ETHZ, CH

Morning Session chaired by

Sam Mafwila, UNAM

09.40 *Phytoplankton of the northern Benguela
Upwelling System*

Deon Louw, Nat MIRC, MFMR, NA

10.10 *Benguela Upwelling Ecosystem - Metal
Cycling and Pollution*

Edosa Omoregie, SANUMARC, NA

10.40 Break

11.00 *Metabolism in the giant bacteria
Thiomargarita spp. assayed using a redox-
sensitive dye*

Jake Bailey, U. Minnesota, USA

11.30 *Variability of Copepod Abundance along
the 201S Monitoring Transect from 2005 to
2011*

Richard Horaeb, Nat MIRC, MFMR, NA

12.00 Break, Standing Lunch offered by the
RGNO

12.45 Presentation of NatMIRC Facility in
Groups

Richard Horaeb, NatMIRC

13.30 Afternoon Session chaired by **Chibo Chikwililwa**

Presentations last 20 / 30 minutes, respectively, discussion included

13.30 **Isabella Ueitele** (ZERI, Namibia) & **Lorenzo Lagostina** (ETHZ, CH)
Exploring the Ocean as a Source of Antibiotics?

14.00 **Stéphanie Follonier** (HES-SO Valais, Switzerland)
Isolation of Bioplastic-producing Microbes from the Benguela Upwelling System

14.20 **Sten Littmann** (MPI Bremen, Germany) & **Clara Loureiro** (U Azores,
Portugal)
Microbiological Diversity and Primary Production in the Benguela Ecosystem

14.50 **Sally Johanna Shiindi** (NIS, Namibia)
*A modular Approach for the Enrichment of Sulfate-reducing Microorganisms from
organic-rich Sediments*

15.10 Break

15.30 **Kaarel Mänd** (U Tartu, Estonia)
Phosphatised Microstructures in ancient and modern Phosphorites

15.50 **Felipe Sales de Freitas** (UBristol, UK)
*What controls Reactivity of sedimentary organic Matter across different depositional
Settings: A Lipid Biomarker Approach?*

16.10 **Katharina Siedenberg** (U Münster, Germany)
The Application of Stable Isotopes to Reveal the Sedimentary Sulfur Cycle

16.30 **Hermína Namupala and Erastus Shilongo Uusiku** (NSI, Namibia)
*Heavy Metals and PSTs along the Namibian Coast: A Baseline Study for Quality
Assurance*

17.00 **Jessica Confrancesco** (Oklahoma State University, USA)
*Impact on the Trace Metal Contents of laterally re-deposited Sediments in the
Benguela Upwelling System*

17.20 **Victor Miti Libuku** (NatMIRC, Namibia) to be confirmed
Re-suspension and Deposition of Sediments from the Upper Namibian Shelf

18.00 Bus departs from Nat MIRC

Sponsors



**An open Forum offered by
The DISCOVERY CAMP – 2014
of the Regional Graduate Research & Training Network in
Oceanography**

on

Scientific Knowledge applied to the Sustainable Use of Coastal Upwelling Ecosystems

**with Lectures and Discussions by Experts from the Region
and visiting Scientists and
Presentations by the Participants of the Discovery Camp
about Research Results and Research Proposals**

**Tuesday, MARCH 25, 2014
in the Auditorium of the**

**National Marine Information and Research Centre (Nat MIRC)
in Swakopmund**

The RGNO Research Discovery Camp is sponsored in addition by



AGOURON
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ETH Zürich



UNIVERSITY OF MINNESOTA

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PROGRAM

Welcome at Nat MIRC

Rudi Cloete, Nat MIRC, MFMR

Introduction to the Symposium and Review of the RGNO 2014

Kurt Hanselmann, ETHZ

Morning Session chaired by Sam Mafwila, UNAM

Phosphate Mining - A Namibian Perspective

Rudi Cloete, Nat MIRC, MFMR

09:25

Exploring the Role of Polyphosphate Metabolism in the Formation of phosphatic Mineral Deposits

09:55

Jake Bailey, University of Minnesota

BREAK

10:30

The Dynamics of Phytoplankton in the Northern Benguela Current System

10:50

Deon Louw, Nat MIRC, MFMR

A World of Giants! – The largest Bacteria come from Namibia

11:25

Verena Salman, University of North Carolina

Long-term Environmental Trends in Namibia, using integrated Data Sets for Management

12:00

Anja Van Der Plas, Nat MIRC, MFMR

BREAK, Standing Lunch offered to all Participants by the RGNO

12:35

Presentation of Nat MIRC Facilities in Groups

13:15

Richard Horaeb, Nat MIRC, MFMR

Afternoon Session chaired by Elsabe Julies, UNAM

Student Presentation of RGNO Research Results and Research Proposals

14:15

Przemysław Jerzy Dabek, Poland

Effects of salinity on growth of the planktonic diatom *Pleurosigma* sp. from the Benguela Upwelling System

Kahe Johanna Dijerenge, Namibia

Can we get toxic phytoplankton species that grow better if we change the N:P ratio?

Cathleen Deelie, Namibia

Polyphosphate in Diatoms

Blessing Kamwi, Namibia

The Benthic-Pelagic Interaction

BREAK

Student Presentation of RGNO Research Results and Research Proposals cont.

15:45

Marion Jaussi, Denmark

Hunting (or fishing) sulfate reducing ammonium oxidation in Namibian shelf sediments

Maria Malakia, Namibia

Effects of dissolved organic carbon addition on microorganisms in the water column off the Namibian shelf

Maria Papadatou, Greece

Thiomargarita - Namibia's sulfur pearl physiology

Katherine French, USA

Molecular characterization of the sulfur cycle in the Benguelan upwelling zone

End of symposium

17:15