German - Brazilian Year of Science, Technology and Innovation 2010/11

Workshops on Opportunities in Geoscience and Geotechnology

14th-16th February 2011 in Santos-SP, Brazil

31st March 2011 in Heidelberg, Germany

Preface

German – Brazilian Year of Science, Technology and Innovation 2010/11

Important topics of this bilateral scientific cooperation are sustainability and the careful approach to environmental, energy, and raw material resources. Regarding these questions both countries facing the same challenges.

But Brazil has enormous natural resources like oil, gas, and ore deposits. Furthermore, it has great possibilities to use energy sources e.g. solar, and hydro power. In contrast, Germany has advanced equipment and machines for the raw material production and is one of the leading countries for renewable energy technology.

The workshop will be carried out to bring German and Brazilian experts on marine geology, and geotechnology from universities, research centers, and the industry

together. The participants are invited to exchange knowledge, indentify complementary concepts and technologies and to formulate the framework for a future dialogue on geoscientific research and resources between Germany and Brazil.

In the future, Brazilian mining/oil companies need to revert to reservoirs whose sustainability and ecological exploitation will depend strongly on secure and efficient technical solutions. In addition, great challenges can be expected by the production of oil and gas in the deep ocean along the coastline of Brazil especially to produce, transport and convert environment friendly.

The protection of the environment is of importance beyond country borders.



Concept

The objective of the workshops is the outline of joined research topics for future activities and research cooperations between Brazilian and German scientist in different research fields like »Marine Geosciences and Geotechnology«, »Geophysics and Geodesy«, and »Scientific Drilling«.

Renowned scientist and representatives from the industry are invited to discuss these topics, the possibilities for cooperation and the need for further joint research. During the workshops the integration of knowledge on science and technology of both countries in the future will be aspired.

The workshops are scheduled as a platform to initiate cooperative research between Brazilian and German scientists and companies supplying technology and innovation in geoscientific fields for the future.

Beside scientific talks and discussions a poster session and an exhibition will be organized. Exhibitors and

sponsors are welcome to inform and display their technologies and products.

The proposed workshops will provide the platform to gather experts from both countries to discuss joint research projects including joint development of marine technologies. The results will be summarized in a »white paper«. Combining scientific researchers with representatives from the industry supplying marine technologies will have a direct and lasting impact on the near future of joint scientific research. The short- and long-term impact can only be sustained if the outlined research goals by the proposed workshops can be supported by solid financial tools (programs) in both countries.

Invited Brazilian scientist, engineers and politicians are welcome to visit German Marine Institutes (IfM-GEO MAR, MARUM, AWI), from March 27-30, and the compendium as part of the DFG-Latin-America Conference held in Heidelberg at the 31st of March.



Date/Location

Pre-Event

Sunday, 13th of February 2011 (7 p.m.) Ice Breaker Party

Location

Atlântico Hotel Av. Presidente Wilson, 1, Gonzaga CEP: 11065-200 - Santos - SP - Brazil

Workshops

Monday, 14th of February 2011 (All Day) »Marine Geosciences and Geotechnology« Tuesday, 15th of February 2011 (All Day) »Geophysics and Geodesy« and »Scientific Drilling« Wednesday, 16th of February 2011 (All Day)

»Scientific Projects and Managment«

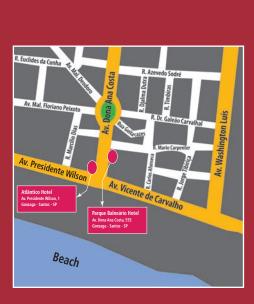
Location

Parque Balneário Hotel Av. Ana Costa, 555, Gonzaga CEP: 11060-003 - Santos - SP - Brazil

Excursion

Thursday, 17th of February 2011

Excursion to Petrobras Unit in Santos



Workshop-Program

Monday, 14th of February 2011

»Marine Geosciences and Geotechnology«

8.30 - 9.30

Welcome Remarks

M. C. Soares Machado (Representative of the MCT)Representative of the German Federal Foreign OfficeC. Leite (Head of Commissioner for Marine Resources)

Prof. Dr. M. J. Giannini (Prorector UNESP)

Prof. Dr. J. F. Gomes de Oliveira (President, IPT) Prof. Dr. F. Braz Machado (President, SBG)

R. Barco (Representative of CODESP)

Dr. Edson José Milani (Representative of Petrobras/CENPES)

9.30 - 10.00

S. Petersen (IFM-GEOMAR), »Seafloor Massive Sulfide Deposits - Challenges and Opportunities«

10.00 - 10.30

S. Sichel (UFF), »Geochemistry of the Abissal Mantle at the Equatorial Atlantic Ocean«

10.30 - 11.00

J. Pätzold (MARUM), »Exploration of the Ocean with new Technologies«

11.00 - 11.30 Coffee Break

11.30 - 12.00

C. M. Chiessi (USP), »SW Atlantic Paleoceanography: A Review and Future Research Directions«

12.00 - 12.30

Lester Lembke-Jene (AWI), »Innovations in German Offshore Technology for Station Keeping, Shipbuilding and Research in Extreme Environments«

12.30 - 13.00

G. Uenzelmann-Neben (AWI), »The Dependency of Climate and Circulation on Tectonic Development: Interdependency of Deep and Shallow Studies«

13.00 – **14.00** Lunch Break

(the costs are not covered by the workshop organizers)

14.00 - 14.30

L. P. Magnavita (Petrobras), »The Southeastern Brazilian Margin: Constraints on the Evolution of the South Atlantic Ocean«

14.30 - 15.00

R. Littke (RWTH Aachen), »Unconventional Gas Resources: new Research Perspectives«

15.00 - 15.30

E. J. Milani (Petrobras), »Petrobras-Universities Thematic Networks in Geosciences: Facing Brazilian Exploratory Challenges and Creating Opportunities in the Industry-Academia Relationship«

15.30 – 16.00 Coffee Break

16.00 - 16.30

H. Westphal (ZMT), »Integrating Marine and Social Sciences«

16.30 - 17.00

D. Brito (UNESP), »The Unespetro at UNESP«

17.00 – 17.30 Wrap up

17.30 - 18.00

R. Cunha Mattos Portella (Petrobras), »Production Technology — historical view and main current challenges «

18.00 - 19.30

Poster Session + Discussion Groups Reception

Tuesday, 15th of February 2011

»Geophysics and Geodesy« and »Scientific Drilling«

8.30 - 9.00

Ch. Reichert (BGR), »Present Status and Future of BGR's Marine Activities«

9.00 - 9.30

K. Gonçalves de Souza (SECIRM), »The Activities of CPRM in Brazilian Oceanic Regions«

9.30 - 10.00

Ch. Haberland (GFZ), »Geophysical Research at the GFZ Potsdam with Focus on the South Atlantic Margins«

10.00 - 10.30

C. E. Theodoro (Petrobras), »On-Offshore Geophysics«

10.30 - 11.00 Coffee Break

11.00 - 11.30

M. Korte (GFZ), »The Geomagnetic Field – from Earth's Core to Space«

11.30 - 12.00

S. Fontes (ON), »The National Observatory«

12.00 - 12.30

U. Harms (GFZ), »Opportunities in Continental Scientific Drilling: From Paleoclimate and Impacts to Geological Risk«

12.30 - 13.00

O. J. S. Ribeiro (Petrobras), »Deep Water Technology«

13.00 – 14.30 Lunch Break

(the costs are not covered by the workshop organizers,

14.30 - 15.00

R. Bracke (University Bochum), »Coiled Tubing Drilling as an Exploration Tool for Geosciences«

15.00 - 15.30

C. E. da Fonseca (Petrobras), »New Drilling Techniques«

15.30 – 16.00

V. Boeder (HCU), »Optimization of Multi Sensor Systems for Precise Mapping and Hydroacoustic Investigations at Sea«

16.00 – 16.30 Coffee Break

16.30 - 17.00

C. Perreira Krueger (UFPR), »Actual Status and Perspectives of Space Geodesy Laboratory in Marine and Satellite Positioning Activities«

17.00 - 17.30

U. Köhler (DLR), »Solar-System Exploration at DLR and Spinn-Offs for Terrestrial Remote Sensing«

17.30 – 18.00

I. Vitorello (INPE), »Space Technology for Earth Sciences«

18.00 – 18.30 Wrap up

18.30 - 19.30

Poster Session + Discussion Groups Reception

20.00 Key Note Lecture

U. Köhler (DLR), »A new Perspective on Mars: Germany's High Resolution Stereo Camera on Europe's Mars Express Mission«

Wednesday, 16th of February 2011

»Scientific Projects and Managment«

8.30 - 9.00

U. A. Glasmacher (University Heidelberg), »DFG-Priority Program 1375 — Possibilities for Longer Term Cooperative Research«

9.00 - 9.30

M. Michaelovitch de Mahiques (USP), »The Southern Brazilian Shelf«

9.30 - 10.00

P. Kukla (RWTH Aachen), »Integrated Subsurface Evaluation Along Continental Margins«

10.00 - 10.30

P. C. Hackspacher (UNESP), »A new Institute for Marine Sciences«

10.30 - 11.00 Coffee Break

11.00 - 11.30

R. Pickert (Brasbauer), »New technology for seabed coring (from shallow to deep water)«

11.30 - 12.00

U. Münch (GEOTECHNOLOGIEN), »The R&D program GEOTECHNOLOGIEN«

12.00 - 12.15

M. Braile (Herrenknecht Vertical), »New Drilling Rig Developments«

12.15 - 12.30

F. Sellmer (Herrenknecht), »Technology for Shore Approach Execution«

12.30 - 13.00

M. Godoy (VALE), »New Advances in Drilling Technology«

13.00 – 14.00 Lunch Break

(the costs are not covered by the workshop organizers)

14.00 – 14.30

E. Wernick (UNESP), »Geological Research: Scientific and Technological Aspects $\!\!\!\!\!\!\!\!^{\rm c}$

14.30 - 15.00

A. Casares (CARL ZEISS), »Carl Zeiss NTS - Nano Technology System«

15.00 – 15.30

M. Ippich & G. Abich (RF Forschungsschiffahrt GmbH), »SONNE and other German Research Vessels«

15.30 – 17.00

Final Discussion on Research Themes and Possible Bilateral Financing Tools

Evening Dinner

(the costs are not covered by the workshop organizers)

Thursday, 17th of February 2011

Excursion to Petrobras Unit in Santos

All Participants are welcome to display exhibits, technologies and/or posters.

For details please contact us.

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Organization

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Dr. Ute Münch, Head of the Co-ordination Office, GEOtechnologien, Potsdam, Germany **Dr. Bertram Heinze**, Head of Staff, German House of Science and Innovation São Paulo (DWIH)







Sponsors



