

Wednesday, December 7th 2011

- 10.00 Official Opening of the Conference. A keynote speech by Professor Antoni Tajduś, Rector of University of Science and Technology in Cracow and by Professor Stanisław Gućma, Rector of Maritime University in Szczecin.
- 10.20 **Prof. Maciej Kaliski Ph.D. Eng.**, Undersecretary of State in the Ministry of Economy, An introduction lecture: *Mineral resources and the development of humankind.*

First Session

Chairman: **Associate Professor Piotr Czaja Ph.D. Eng.**,
AGH University of Science and Technology

- 10.45 **Prof. Bolesław Mazurkiewicz Ph.D. Eng.**, The Maritime University of Szczecin: *Offshore mining of raw resources of the sea and ocean bottom as the principal task for the state maritime policy.*
- 11.00 **Tomasz Abramowski Ph.D. Eng.**, A Chief Executive Officer of Interoceanmetal Joint Organization (IOM), **Prof. Ryszard A. Kotliński Ph.D.**, The University of Szczecin: *Contemporary challenges in exploitation of the ocean polymetallic deposits.*
- 11.15 **Associate Professor Krzysztof Szamalek, Ph.D.**, The University of Warsaw, **Associate Professor Włodzimierz Mizerski, Ph.D.**, Polish Geological Institute – National Research Institute: *Sea-bed mineral resources – current knowledge and perspectives.*
- 11.30 **Prof. Ryszard A. Kotliński Ph.D.**, The University of Szczecin: *Clarion-clipperton nodule field - a future source of mineral deposits.*
- 11.45 **Prof. Adam Piestrzyński Ph.D. Eng.**, University of Science and Technology: *World ocean mineral commodities.*
- 12.00 **Associate Professor Jerzy Hajduk Ph.D. Eng. Master Mariner**, Maritime University of Szczecin: *Safety of mining operations on the deep sea.*
- 12.15 Discussion
- 12.30 Lunch break

Second Session

Chairman: **Associate Professor Jerzy Hajduk Ph.D. Eng. Master Mariner**, Maritime University of Szczecin

- 13.30 **Associate Professor Jacek Mucha Ph.D. Eng., Monika Wasilewska Ph.D. Eng.**, University of Science and Technology, **Prof. Ryszard A. Kotliński Ph.D.**, The University of Szczecin: *Polymetallic nodules resources – procedures and requirements for their estimation in IOM area (Clarion – Clipperton fracture zone)*
- 13.45 **Tomasz Abramowski Ph.D. Eng.**, A Chief Executive Officer of Interoceanmetal Joint Organization (IOM), **Prof. Tadeusz Szelangiewicz Ph.D. Eng.**, West Pomeranian University of Technology in Szczecin: *Exploitation polymetallic nodules with deep seabed.*
- 14.00 **Associate Professor Lech Rowiński Ph.D. Eng.**, Gdansk University of Technology: *Getting polymetallic nodules using autonomous underwater vehicles.*
- 14.15 **Prof. Daniel Duda Ph.D. Eng. Master Mariner., Associate Professor Andrzej Królikowski Ph.D. Eng. Master Mariner.**, Polish Naval Academy in Gdynia, **Ryszard Wróbel Ph.D. Eng., Wiktor Koszałkowski M.Sc.**, Maritime Office in Gdynia: *Survey on international standard for the safe management and operation of ships and for pollution prevention (ISM Code) based on the example of mobile offshore drilling units.*
- 14.30 **Prof. Lech Kobyliński Ph.D. Eng.**, Foundation for safety of navigation and environment protection: *Some hazards to safety of offshore mining operations.*
- 14.45 Coffee break
- 15.15 **Teresa Abaramowicz-Gerigk Ph.D. Eng., Associate Professor Zbigniew Burciu Ph.D. Eng. Master Mariner**, Gdynia Maritime University: *Operational problems of evacuation systems.*
- 15.30 **Mirosław Gerigk Ph.D. Eng.**, Gdansk University of Technology: *A method of safety assessment of ocean engineering objects oriented on the object performance and risk assessment. Procedure of safety management of a damaged object at sea.*
- 15.45 **Jerzy Kicki Ph.D. Eng.**, University of Science and Technology: *Exploitation of natural resources from seas and oceans floor – why and when?*
- 16.00 **Prof. Wiesław Koziol Ph.D. Eng., Łukasz Machniak M.Sc., Andrzej Ciepliński M.Sc., Joanna Goleniewska M.Sc.**, University of Science and Technology: *Aggregates exploitation of sea areas in Poland and UE.*

- 16.15 **Łukasz Maciąg M.Sc., Prof. Ryszard A. Kotliński Ph.D., Prof. Ryszard K. Borówka Ph.D.**, The University of Szczecin: *Lithological variability of siliceous clayey silts from IOM area (Clarion–Clipperton Fracture Zone, East Pacific)*
- 16.30 **Prof. Stanisława Sanak-Rydlewska Ph.D., Agnieszka Gala M.Sc.**, University of Science and Technology: *Methods of recovery of some metals from oceanic nodules.*
- 16.45 **Dorota Pyć Ph.D.**, The University of Gdańsk: *Offshore mining and sustainable environmental governance*
- 17.00 **Anna Rabajczyk Ph.D.**, The Jan Kochanowski University of Humanities and Sciences in Kielce: *Environmental threats resulting from methane clathrate extraction: an environmental impact assessment.*
- 17.15 **Claudia Jacaszek, Deutschland:** *Marine mining of aggregates from the North Sea and its influences on the environment*
- 17.30 Discussion
- 17.45 Close up the first day of conference
- 19.00 Ceremonial supper

Thursday, December 8th 2011

Third Session

Chairman: **Prof. Bronisław Barchański Ph.D. Eng.**,
University of Science and Technology

- 10.00 **Prof. Bernard Wiśniewski Ph.D. Eng.**, Maritime University of Szczecin, **Tomasz Wolski Ph.D.**, The University of Szczecin: *The hydrometeorological protection of Clarion - Clipperton zone.*
- 10.15 **Andrzej Bąk Ph.D. Eng. Master Mariner**, Maritime University of Szczecin: *Positioning systems and base-map used in “offshore” industry on example of Fugro implementation.*
- 10.30 **Associate Professor Waclaw Morgaś Ph.D., Associate Professor Zdzisław Kopacz Ph.D.**, Polish Naval Academy in Gdynia: *Marine mining in the human activity at sea.*
- 10.45 **Prof. Daniel Duda Ph.D. Eng. Master Mariner, Associate Professor Andrzej Królikowski Ph.D. Eng. Master Mariner:** Polish Naval Academy in Gdynia: *Polish Exclusive Economic Zone (EEZ) marine*

environment protection supported by aircraft monitoring.

- 11.00 **Katarzyna Żelazny Ph.D. Eng., Prof. Tadeusz Szlangiewicz Ph.D. Eng.**, West Pomeranian University of Technology in Szczecin: *Shape deformation of vertical mining pipeline.*
- 11.15 **Kazimierz Szeffler Ph.D., Benedykt Hac Ph.D. Eng., Prof. Stanisław Rudowski Ph.D., Lucjan Gajewski, Łukasz Gajewski Eng.**, Maritime Institute in Gdańsk: *Methods of the sea bottom studies in relation to estimation of the mineral aggregates resources within the Bay of Koszalin.*
- 11.30 Coffee break
- 12.00 **Dominik Zawadzki M.Sc., Prof. Ryszard A. Kotliński Ph.D.**, The University of Szczecin: *Conditions of the occurrence and distribution prospective ferromanganese oxide deposits.*
- 12.15 **Arkadiusz Tomczak Ph.D. Eng. Master Mariner**, Maritime University of Szczecin: *Modern methods of underwater positioning applied in subsea mining.*
- 12.30 **Katarzyna Żelazny Ph.D. Eng., Prof. Tadeusz Szlangiewicz Ph.D. Eng.**, West Pomeranian University of Technology in Szczecin: *Loads and tensions of vertical mining pipeline.*
- 12.45 **Remigiusz Dzikowski M.Sc. Master Mariner, Piotr Głogowski M.Sc. Master Mariner**, Maritime University of Szczecin: *Prediction for the oil spillage expansion due to the potential leakage from the oil rig in the northeastern part of the Caspian Sea.*
- 13.00 **Kinga Łazuga M.Sc., Paweł Górtowski M.Sc. Chief Officer**, Maritime University of Szczecin: *Analysis of the influence of oil spill on effectiveness of the SAR action using SARMAP and OILMAP simulators*
- 13.15 Discussion
- 13.30 Lunch break

Fourth Session

Chairman: **Prof. Wojciech Ślącza Ph.D. Eng. Master Mariner**, Maritime University of Szczecin

- 14.30 **Benedykt Hac Ph.D. Eng., Juliusz Gajewski, Lucjan Gajewski, Jarosław Nowak M.Sc., Kazimierz Szeffler Ph.D.**, Maritime Institute in Gdańsk: *Organization of marine geophysical investigations - BalticPipe project as a case study.*

- 14.45 **Wojciech Maleika Ph.D. Eng., Michał Palczyński Ph.D. Eng.**, West Pomeranian University of Technology in Szczecin: *The influence of the beam width in multibeam echosounder on the accuracy of seabed models.*
- 15.00 **Associate Professor Adam Bolt Ph.D. Eng., Patrycja Jerzyło M.Sc.**, Gdansk University of Technology: *Exploitation polymetallic nodules with deep seabed.*
- 15.15 **Paweł Zalewski Ph.D. Eng.**, Maritime University of Szczecin: *Kalman Filter and Fuzzy Models in Dynamic Positioning Systems.*
- 15.30 **Paweł Górtowski M.Sc. Chief Officer, Kinga Łazuga M.Sc.**, Maritime University of Szczecin: *The influence of oil spill on effectiveness of the SAR action.*
- 15.45 **Marzena Górtowska M.Sc. Chief Officer**, Maritime University of Szczecin: *Aspects of the choice of places of refuge for ships in need of assistance on the Polish coast.*
- 16.00 **Jerzy Marek Gutteter-Grudziński Ph.D. Eng.**, Maritime University of Szczecin: *New ways of bilge waste water treatment on ships and oil platforms.*
- 16.15 Discussion
- 16.30 Summary and close up the conference



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AGH University of Science and
Technology in Cracow
The Maritime University of Szczecin

1st International
Science and Technology
Conference

**Marine mining as the resources
opportunity for future
generations**

Schedule of Events

The conference under the auspices of the
European Parliament
and Deputy Prime Minister, Minister of
Economy,
Mr Waldemar Pawlak

Cracow, 7-8.12.2011.