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HICE › Aerosols and Health
Helmholtz Virtual Institute of Complex Molecular Systems in Environmental Health

"Highly Sulfuric Oil Shale as a Source of Substances of Complex Chemical Composition – History, Current Uses and Outlook"

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Dr. Guido Gayko

Date: 18th June 2019 (Tuesday)
Time: 05:30 p.m.
Venue: Research Building Department „Life, Light & Matter"
of the Interdisciplinary Faculty of the University of Rostock,
seminar room 110, A.- Einstein-Str. 25, 18059 Rostock

Abstract

Oil shale is a widespread sedimentary rock containing solid organic material in varying amounts. Current conservative estimates assume that about 6 trillion tons of shale oil could be extracted from oil shale, which exceeds the global reserves of crude oil many times over. Nevertheless, with regional exceptions, oil shale has hardly played a role as a source of raw materials or energy. One notable exception is the worldwide use of shale oil-based active ingredients in pharmaceutical products. For more than 100 years, sulfur-rich shale oil sulfonation products have been used in dermatology for the treatment of skin diseases. In the pharmacopoeias, the active ingredients are essentially defined by key figures due to their complex composition. The structural elucidation of shale oil fractions and their sulfonation products is a challenge for modern instrumental analysis.

Short CV

Professional Experience

10/1997-present	Research & Distribution of Sulfonated Shale Oils,ICHTHYOL-GESELLSCHAFT and ÖSTERREICHISCHE ICHTHYOL, different responsibilities, among others Head of Production, Deputy Head of QC, Head of QA
10/1996-09/1997	Scientific collaborator at VEBA OEL AG (now BP), department „development of petro-chemistry"
01/1993-02/1997	Ph.D. thesis entitled „A contribution to the mode of action of catalysts for the oxidative coupling of methane" in the group of Prof. Dr. Manfred Baerns, Dept. of Technical Chemistry, University of Bochum, 02/1997 Ph.D. degree in natural sciences

University Education

10/1987-11/1992	First Degree in chemistry, University of Bochum Title of diploma thesis: „On the Influence of Oxygen Anion Conductivity and Basicity of Metal Oxide Catalysts on the Selectivity of the Oxidative Coupling of Methane to Higher Hydrocarbons"

*****All interested are welcome*****

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