



THE FIRST M.O.B.I. WORKSHOP

MARINE OFFSHORE BIOREFINERY IN ISRAEL

24 MAY 2017

- Seaweed Cultivation
- Engineering & Biotechnology
- Environment, Economics and Policy
- Operational Oceanography
- Sustainable Development
- Big Data



Organizing Committee:

Alexander Golberg, Tel Aviv University

Alvaro Israel, Israel Oceanographic and Limnological Research Institute

Yoav Lehahn, Weizmann Institute of Science

Avigdor Abelson, Tel Aviv University



**Venue: Porter School of
Environmental Studies
Klausner St. Tel Aviv-Jaffa**



9:00-17:00



**Facebook: MOBI2017
mobi2017is@gmail.com**



**Free entrance
RSVP**

Schedule

Plan your day

8:30 Registration and Coffee

9:00 Opening Remarks

Prof. Daniel Chamovitz
Dean of the George S. Wise Faculty of Life Sciences, Tel Aviv University

Prof. Colin Price
Head of Porter School of Environmental Studies, Tel Aviv University

Tanja Hutt
Head of the Economic and Commercial Department, German Embassy, Tel Aviv

Johannes Uhl
Advisor Foreign Energy Policy, Deutsche Gesellschaft für internationale Zusammenarbeit

9:15 Sessions

Chair: Dr. Yoav Lehahn, Weizmann Institute of Science

Energy from Offshore Kelp Farms: Technologies and Production of Laminarian Species

Prof. Dr. Bela Hieronymus Buck
Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI)

Nutrient status and cycling in the Eastern Mediterranean
Prof. Michael David Krom, Haifa University

Economics of Macroalgae Utilization

Dr. Ruslana Palatnik, Yezreel Valley College and University of Haifa

Novel Methods (Microwave and Sonochemistry) for the conversion of Biomass to Biofuels

Prof. Aharon Gedanken, Bar-Ilan University

IMTA as a mitigation tool in stress-prone coastal environments

Prof. Avigdor Abelson, Tel Aviv University

Bio-Economic aspects of off-shore seaweed cultivation - food and energy security

Dr. Shiri Zemah Shamir, IDC Herzliya

10:45 Coffee Break

11:15 Sessions

Chair: Prof. Avigdor Abelson, Tel Aviv University

Designer cellulosome technology for conversion of cellulosic biomass into biofuels

Prof. Edward Bayer, Weizmann Institute of Science

An Overview Of Seaweed Research & Cultivation Practices In Israel

Dr. Alvaro Israel, Israel Oceanographic & Limnological Research, Ltd.

Conversion of the power plants CO2 emissions into bio-coal through algae cultivation

Dr. Gabriel Jinjikhshvily, Israel Electric Company

Environmental Conditions Offshore Israel, their Design Aspects, and Concepts of Floating Structures

Prof. Nitai Drimer, Technion-

Model of techno-economical analysis for algae biofuels

Dr. Bracha Halaf, Ministry of National Infrastructures, Energy and Water Resources

Offshore marine biorefinery in Israel a consolidated approach to support bioeconomy and blue growth.

Proposed Marine Biorefineries Research Center
Dr. Alexander Golberg, Tel Aviv University

13:00 Lunch

14:00 Sessions

Chair: Dr. Alvaro Israel, Israel Oceanographic & Limnological Research, Ltd.

Designing a consolidated microbial process for production of bioethanol from Ulva biomass

Prof. Ehud Banin, Bar Ilan University

Macroalgae- a potential new and renewable source for macronutrients

Prof. Yoav Livney, Technion

A quantitative management tool reflecting impact of nutrient enrichment from mariculture in the Levantine basin

Prof. Hezi Gildor, The Hebrew University

Biomass processing with solar energy

Prof. Abraham Kribus and Dr. Michael Epstein, Tel Aviv University

FBA modelling for two step fermentation biorefineries

Dr. Zohar Yakhini, Herzliya

Introduction on offshore marine aquaculture planning efforts in Israel

Eng. Noam Mozes, Ministry of Agriculture and Rural Development.

The Win-Wins of Wind Energy: German and European Initiatives in Algae and Marine Biodiversity Cultivation Linked to Offshore Wind Infrastructure

Prof. Miranda Schreurs, Technical University of Munich

15:50 Workshop Closing

Dr. Alexander Golberg, Tel Aviv University

16:00 A guided tour through the travelling exhibition

“Germany’s Energywende”

Guide: Johannes Uhl, Advisor Energy Foreign Policy, GIZ