



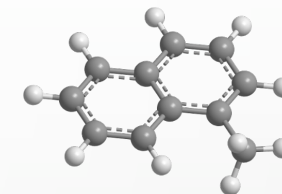
UNIVERSITÀ
degli STUDI
di CATANIA

Dottorato di Ricerca in:
Scienze della Terra e
dell'Ambiente

DR. ÁDÁM NÁDUDVARI

UNIVERSITY OF SILESIA, KATOWICE, POLAND

ORGANIC BIOMARKERS AS TOOLS FOR RECONSTRUCTING PAST ENVIRONMENTS AND DETECTING PRESENT ENVIRONMENTAL POLLUTION



March 7, 2022 h. 11.00-14.00. Aula SUD Biologia Animale, Via Androne 81.
MICROSOFT TEAMS CODE: 7XABAQE

INTRODUCTION

THE TOPIC OF THE LECTURE IS RELATED TO BIOMARKERS –THEIR ORIGIN, HOW TO USE THEM TO RECONSTRUCT PAST ENVIRONMENTS AND DETECT PRESENT ENVIRONMENTAL POLLUTION DUE TO OIL OR COAL DUST.

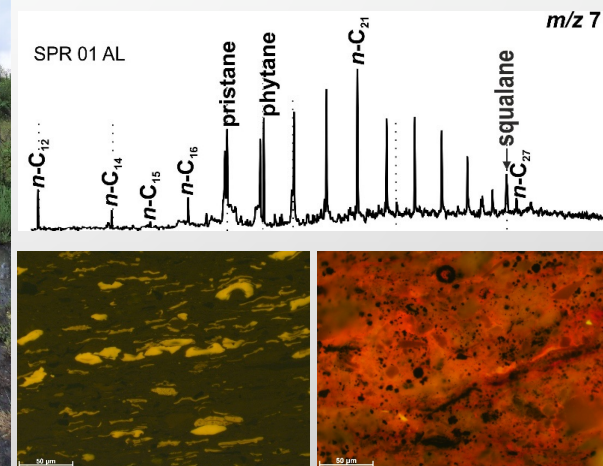
COURSE CONTENT:

ORGANIC CARBON FORMS IN LITHOSPHERE, AND EVOLUTION OF ORGANIC MATTER E.G FACTORS INFLUENCING TYPES OF ORGANIC MATTER DURING DEPOSITION.

MOST IMPORTANT BIOMARKERS, N-ALKANES, HOPANES, STERANES, AROMATIC COMPOUNDS.

ENVIRONMENTAL POLLUTION OF BURNING COAL WASTE DUMPS AND THE USE OF GC-MS TO SHOW THE CHARACTERISTIC POLLUTANTS RELATED TO THESE DUMPS.

EXERCISES: PREPARATION OF SAMPLES FOR GC-MS ANALYSIS AND INTERPRETATIONS OF RESULTS.



For further information and reservation send an email to: dottorato.geobio@unict.it



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USING REMOTE SENSING TECHNIQUES FOR MONITORING LAVA FLOWS (ETNA, ICELAND) AND COAL WASTE DUMP BURNING (UPPER SILESIA, POLAND)

March 8, 2022 h. 15.00-18.00. Aula SUD Biologia Animale, Via Androne 81.
MICROSOFT TEAMS CODE: 7XABAQE

INTRODUCTION:

THE LECTURE IS DEDICATED TO REMOTE SENSING TECHNIQUES TO ESTIMATE TEMPERATURES OF LAVA FLOW AND BURNING COAL WASTE DUMPS.

CONTENTS:

PHYSICAL ASPECTS OF TEMPERATURE FROM OBJECTS
SATELLITE IMAGES.
ADVANTAGES AND DISADVANTAGES OF LANDSAT 4-5TM, 7ETM+,
AND 8OLI NIGHT-TIME SATELLITE IMAGES

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