



ADVANCES IN CATALYSIS FOR HYDROCARBONS

RESULTS FROM ZEOCAT-3D, C123 &
BIZEOLCAT EU RESEARCH PROJECTS

16 MARCH 2023 · ATHENS

PRO- GRAM.

16 MARCH 2023

MORNING.



8:30

WELCOME COFFEE



9:00

ZEOCAT-3D

María Tripiana Serrano
▶ IDENER

Introduction



9:10

ZEOCAT-3D

Fotis Katsaros
▶ DEMOKRITOS

Novel zeolites for methane conversion to aromatics (DMA)



9:35

C123

Richard Heyn
▶ SINTEF

Results and conclusions of the C123 project



10:00

ZEOCAT-3D

A. Beuque, N. Batalha,
S. Palencia, A. Sachse
& L. Pinard
▶ CNRS

3D printing as an innovative strategy to improve catalytic performance in the methane dehydroaromatization process



10:25

C123

Alejandro Romero Limones
▶ GHENT UNIVERSITY

Catalysts and processes for the conversion of methane to CO and ethene



10:50

BIZEOLCAT

Isabel Vicente Valverde
▶ EURECAT

Sustainable olefins and aromatics by innovative nanocatalysts



11:15

COFFEE BREAK



11:40

C123

Alvaro Amieiro
▶ JOHNSON MATTHEY

Catalysts for the gas phase hydroformylation of ethene



12:05

ZEOCAT-3D

Cristina Salazar
▶ LUREDERRA

Design and production of very specific nanocatalysts by FSP technology



12:30

ZEOCAT-3D

Ivo Roghair &
Martin van Sint Annaland
▶ TU/e EINDHOVEN

Catalyst 3D printing for intensified chemical reactors, the heat transfer – pressure drop trade-off



12:55

ZEOCAT-3D

Riccardo Togni
▶ DCS

3D-1D model for the simulation of chemical reactors



13:20

LUNCHTIME

16 MARCH 2023

AFTER-NOON.

- | | | | | |
|---|--------------|----------------|---|--|
|  | 14:30 | ZEOCAT-3D | Dimitris Koutsonikolas %
Grigoris Pantoleontos
▶ APTL / CERTH | Biogas upgrading using a gas-liquid contact membrane process |
|  | 14:55 | BIZEOLCAT | Emma Palo &
Vittoria Cosentino
▶ NEXTCHEM | Techno-economic assessment of BIZEOLCAT new propane and butane dehydrogenation and propane aromatization |
|  | 15:20 | C123 | Mohamed Mahmoud &
Jordy Motte
▶ PDC & GHENT UNIVERSITY | TEA and LCA of the C123 process |
|  | 15:45 | BIZEOLCAT | Trond Halvorsen
▶ SINTEF | Expected socio-economic impacts of the BIZEOLCAT project on European Neighbourhood Policy countries |
|  | 16:10 | BIZEOLCAT | Dr. Cem Açıksarı &
Dr.Serdar Çelebi
▶ TÜPRAS | Scaling innovative Bizolcat catalysts and reaction tests to reach TRL 5 |
|  | 16:35 | CLOSURE | | |



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