WELCOME LETTER

On behalf of the Organising Committee, it is my pleasure to welcome friends and colleagues of ECATS and Forum-AE to the 2nd ECATS conference on 7th – 9th November 2016. The Organising and Programme Committees, the team at Gold Air and the staff of the hotel Titania are confident you will find it an ideal setting for the conference. We hope you will savour your stay in Athens and make time to explore the unique mix of cultural activities on offer at the heart of this European capital.

The combined ECATS conference and FORUM-AE workshop is an important forum to discuss the current research challenges and opportunities for the aviation community. Hopefully the broad sweep of the presentations and posters over the three days together will allow some exposure to new ideas and an abundance of networking opportunities.

This year the conference theme is ‘Making Aviation Environmentally Sustainable’ which speaks directly to how we work together to develop and integrate our individual research activities.

Our goal is to make the ECATS conference a rewarding and memorable experience for each of you.

We hope you enjoy your time in Athens!

Yours Sincerely,
Simon Blakey
Chair of the Programme Committee ECATS 2016

Organising Committee
Simon Blakey, UK
Kostas Mathioudakis, GR
Thrassos Panidis, GR
Nikos Zarzalis, DE

Scientific Committee
Alexis Almeida, GR
Juanna Badley, UK
Simon Blakey, UK
Paul Drink, NL
Simon Christie, UK
Dominique Caillet, FR
Yolker Drew, DE
Didier Hauglustaine, FR
Paul Madden, UK
Sigrun Matthes, DE
Gerd Saarinenke, DE
Xavier Vancassel, FR
Urs Ziegler, CH

We would like to acknowledge contribution from:
Monday November 7th, 2016

15.40 - 17.40
Dimitrios Misirlis
Intercooled recuperated aero engine: Early development stages and optimization of PP06:
Camelina oil - A possible biofuel for terrestrial application
PP05:
Matthew Dwyer
Methodologies for automatic hydrocarbon autoxidation mechanism generation
PP04:
George Skevis
PP03:
Ehsan Alborzi
and alternative aviation fuel chemical constituents
PP02:
Stella Bezergianni
PP01:
15.00 - 15.40 Coffee Break
Laura Lonza
Inmaculada Gomez Jimenez
Alternative fuels for aviation. Beyond ITAKA
Stella Bezergianni
Sustainable HEFAs for Aviation
Chairperson:
13.30 - 13.45 Welcome
18.00 Conference Reception at the Olive Garden of the Titania Hotel
Christopher Lewis, Joanna Bauldreay
Alternative Fuels for Aviation (continuing)
Christopher Lewis
US Perspective - Alternative fuel research and the ASCENT program
Alternative Fuels for Aviation (continuing)
Joanna Bauldreay
Alternative Fuels for Aviation
Chairperson:
09.00 - 11.00 Chairperson
Sigrun Matthes
10.15 - 10.45 Coffee Break
P007. Environmental impact functions. Linking environmental impact information for planning environmentally-optimal trajectories
Sigrun Matthes
P008. Eco-efficient aviation. An overview on first results from the WeCare project
Volker Grewe
P009. Identifying climate optimal trajectories in different synoptical situations
Sigrun Matthes
11.40 - 12.55 Chairperson
Interdependency and aviation environmental Modelling
Domenico Celli
Assessing trends in aviation noise and emissions in Europe using advanced modeling capabilities
Laurent Canulli
Modelling of aircraft emissions in the airport area
Katarina Spyli
Modelling airport air quality at high resolution
Claire Sarret
12.55 - 13.55 Lunch Break at the Olive Garden Restaurant
13.55 - 15.00 Chairperson
Ling Lim
Simulation of air traffic using weather-based climate cost functions – Feasibility analysis
Volker Grewe
Modelling of aircraft emissions in the airport area
Katarina Spyli
14.40 - 15.00 Chairperson
Florian Linke
Feasibility of climate-optimized air traffic routing for trans-Atlantic flights
Volker Grewe
15.00 - 15.20 Coffee Break
P10. Introducing the emissions from aviation to non-CO2 impacts
Sigrun Matthes
15.20 - 15.50 Early Career Researcher Award Ceremony
15.50 - 16.00 Poster Session
PP07:
Cost-effective and sustainable decarbonisation of aviation fuels
Stella Bezergianni
PP05:
Experimental and computational study of reciprocal interactions of D-Nitro salicylate and alternative fuel chemical constituents
Ryan Alberci
PP06:
Heat release markers for the combustion of alternative aviation fuels in gas turbines
George Skevis
PP04:
Methodologies for automatic hydrocarbon autoxidation mechanism generation
Matthew Dwyer
PP03:
Cost-effective and sustainable decarbonisation of aviation fuels
Stella Bezergianni
PP02:
Stella Bezergianni
PP01:
11.40 - 11.50 Poster Session
PP01:
15.40 - 17.40
15.40 - 17.40 Chairperson.
Alternative Fuels for Aviation (continuing)
Christopher Lewis
US Perspective - Alternative fuel research and the ASCENT program
Christopher Lewis
Smart fuels for aviation. The SMARTCATS cost solution
George Skevis
A study on the emissions of alternative aviation fuels
Ehsan Alborzi
A study on the emissions of alternative aviation fuels
Marina Braun-Gradehoff
Wrap-up
Christopher Lewis, Joanna Badsey
Conference Reception at the Olive Garden of the Titania Hotel