

ITC CONFERENCE GRANT SCIENTIFIC REPORT

This report is submitted for approval by the grant to the MC Chair.

Action number: CA16202

Conference title: European Geosciences Union General Assembly

Conference start and end date: 07/04/2019 to 12/04/2019

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Grantee name: Michael Pikridas

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

During the first day of the conference (07 April) I attended the opening reception, where I could not locate many colleagues, so did not stay for long.

During the following days I attended mainly oral sessions focusing on atmospheric studies and climate change such as

- Atmospheric composition variability and trends (AS3.19)
- Sources, transformations and physical properties of organic aerosols (AS3.36)
- Time Series Analysis in the Geosciences - Concepts, Methods and Applications
- Unmanned aerial vehicle (UAV) as a new, emerging instrument in Geosciences (AS5.5)
- Aerosol Chemistry and Physics (AS3.1)
- Earth radiation budget, radiative forcing and climate change (CL2.01)
- Clouds, Aerosols, Radiation and Precipitation (AS1.40)

to name a few.

I familiarized with free software during hands –on training sessions such as

- A hands-on introduction to Multiple Point Statistics (SC1.29)
- Fundamentals of land-atmosphere interactions using the interactive CLASS software (SC1.10)

Of special interest were the sessions

Air Pollution Modelling (3.15) where Jos Lelieveld was awarded the Vilhelm Bjerknes Medal, followed by a talk on atmospheric temperature rise and its implication with health and policy.

Another interesting session was the “Atmospheric composition, aerosols and trace gases in the Mediterranean and Arabian basins (AS3.13)” where I met a number of colleagues I had worked in the past and agreed to make future collaborations.

Finally the discussion session “The safe operating space for the planet and how to ensure it is not passed (GDB1)” was very informative on the current status of climate change and its future implications.

I presented a poster on the 11th of April which was due at 08:30 in the morning so it attracted less attention than I was hoping for. Namely colleagues from MPIC, and various institutions from Greece. Most participants that were not affiliated with me (not Greek, Cyl or MPIC) visited the poster during the last 30 min of this poster session, including Ecotech representative Ms Felicity Sharp. Ms Sharp expressed interest in my poster, which I emailed her. During this session I further discussed future collaborations established the previous day (see next session) about dust particle’s identification. I mentioned to the future collaborators

that a great deal of my research has focused on dust particles. I also mentioned that I am part of the COST action InDust that involves all major experts in this field, in case they want to further network.



Fig. 1 In front of my poster during the 11th April at session Atmospheric composition, aerosols and trace gases in the Mediterranean and Arabian basins (AS3.13). The InDust logo is unfortunately covered by me.

IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

During the “Atmospheric composition, aerosols and trace gases in the Mediterranean and Arabian basins (AS3.13)” session I met a number of colleagues I had worked in the past and agreed to make future collaborations. In specific Dr John Crowley and Ms Charlotte Beal asked for data acquired during the AQABA campaign to be included in work they have already started working with. This will result in co-authoring 2 additional publications. Both also asked for my expertise in identifying the presence of dust in atmospheric samples.

During the Vilhelm Bjerknes Medal award I discussed with Dr Athanasios Nenes about possible collaborations (drones, measurement campaigns) with our team in Cyprus. Dr Nenes expressed his interest in visiting Cyl within 2019. We exchanged greetings and I will prepare a plan for this tentative collaboration by June, when we meet again during the HAAR summer school as instructors.

At the conference I met with Dr Ramachandran Subramanian which was very interested in our UAV activities. He has developed cheap sensors systems and would like to have them tested on drones instead of balloons. We discussed about receiving a low-cost sensor kit from him and perform flights with it. We discussed about future implications of this collaborations.

Dr Subramanian introduced also to Dr Tami Bond, which was also interested in Cyl’s UAV activities but did not express any interest of collaboration.