

ITC CONFERENCE GRANT SCIENTIFIC REPORT

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

Action number: CA16202

Conference title: The 9th International Workshop on Sand/Dust Storms and Associated Dustfall

Conference start and end date: 22/05/2018 to 24/05/2018

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Grantee name: Saime Yeser Aslanoglu

ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

Within the framework of InDust Cost Action, The 9th International Workshop on Sand/Dust Storms and Associated Dustfall was held in Tenerife, Spain with a great number of participation of dust associated prestigious scientific groups from all over the world. A total of 177 abstracts in terms of oral and poster presentations were held under the Dust and Climate Interactions, Dust Sources and Variability and Dust Impacts main headings. Interesting scientific dust research studies related various issues as mineralogy, particle size, physical properties, cloud formation, biochemical cycles, wet and dry deposition, climate interactions, emerging, anthropogenic and natural sources, radiative forcing, forecasting and modelling, health effects, air quality, photovoltaic energy systems, spaceborne, airborne and in-situ measurement techniques were discussed and shared in three poster and 12 oral presentation sessions. It was a great opportunity being involved in such a progressive scientific activity and had a chance to meet and discuss face to face very well known researchers in this community. It was great opportunity to involved such a progressive scientific activity. Four researchers representing Hacettepe University and Turkish State Meteorological Institute participated with one oral and two poster presentations in different sessions.

Five plenary lectures were given by keynote speakers as Paul Ginoux from NOAA, Fabian Wolfertstetter from DLR, Paola Formenti from CNRS, Zongbo Shi from University of Birmingham and Ron L. Miller from NASA respectively. In the first day morning Paul Ginoux gave a speech on dust-climate interaction controlling factors, and in the afternoon session Fabian Wolfertstetter talked about applicability of dust research in solar energy generation issues. Following Paul Ginoux's speech first session started with the presentation of Joseph M. Prospero who is the pioneer scientist in this aerosol, long range dust transport and climatic impacts. First day presentations were on the topics of dust impacts and dust sources and transport. Along with Dr. Prospero, presentations were very interesting about long range transport from different dust sources to various regions in the world, their characteristics and effects on air quality and relatedly on public health. Also we presented study about dust transport triggering continental dust mobility case for Turkey in the first day poster sessions.



Second and third day sessions were about dust properties, composition, radiative forcing, cloud/ice nuclei formation, deposition to oceans, worldwide forecast/measurement networks and also InDust Cost Action. It was quite a unique experience to had a chance to listen presentaiions of outstanding scientists such like Tegen, Ansmann, Balkanski, Baklanov, Dulac, Weinzierl, Prospero and Nickovic. Throughout the workshop, we were able to listen to different spaceborne, airborne and is-situ observation/measurement techniques, algorithms used in aerosol characterization studies like GRASP, worldwide networks like MPLNET and EARLINET, modelling techniques and forecasting/warning systems from their own developers.

In the last day after the scientific presentations, there was a field trip to Izana, one of the most famous observatory and super-site in the world. It was a great experience to visit the site and discuss face to face about the instrumentations they use, monitoring and calibrating issues that they perform regularly.



IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)

It was a great opportunity being involved in such a distinguished scientific organization with the members of dust research all over the world. I had the chance to meet and discuss with many scientists that I read their articles before. I have found fruitful answers to many questions related my own research. I have had the chance to get to know different people besides names like Stavros Solomos and François Dulac whom I have been in contact before. It was clearly inspiring from my perspective to observe studies of different research groups and construct future collaborations. The workshop maintained the platform to establish a network between existing and future end users, research institutions and service providers and also encouraged the share of knowledge and the use of monitoring products and forecasting outputs of dust.

If I had not been awarded with this special grant, I could not have the chance to participate in such a useful scientific activity. I would like to express my gratitudes to InDust Cost Action Management Committee because of awarding me with this grant. Also I would like to state my special thanks to action lead Dr. Sara Basart and grant coordinator Dr. Pavla Dagsson-Waldhauserova for their helps and patience.