

## ITC CONFERENCE GRANT SCIENTIFIC REPORT

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

**Action number: CA16202**

**Conference title: 9th International Workshop on Sand / Dust storm and Associated Dustfall**

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

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

**Grantee name: ALI KUCUMEN**

### ACTIVITIES DURING YOUR ATTENDANCE AT THIS CONFERENCE:

The workshop included 12 sessions for oral presentations and 3 sessions for poster presentations. Sessions were categorized as following; including dust sources, dust transport, dust effects and dust-climate interactions. Almost 170 scientists from 37 countries attended the workshop to share their studies and discuss sand and dust storm (SDS) in many respects. Three people from Turkey participated to present one oral presentation and two poster presentations.

I have checked the program of the workshop to seek most beneficial presentations. At the first section, I have listened to the first plenary lecture entitled "Analysis of the controlling factors of dust and climate variability" given by Paul Gnoux from USA. This lecture enlightened me since we are facing dust impacts as a result of climate. There were 6 presentations presented right after the plenary lecture and before coffee break. There were mainly about dust sources and transport but approaches and study fields were varied. All of them were remarkable presentations.

At the second section, the topic was not changed. I had a great opportunity to listen to these presentations to see how dust sources are located in the world. Due to I am a forest engineer, the presentation given by Robert Wagner from Germany, entitled "Consideration of wildfires as a source of airborne mineral dust" attracted my attention.

My poster presentation entitled "Wind Erosion Measurements and Spatial Variations in Different Land Use in Central Anatolia, Turkey" was named in the first day of the workshop. After registration, I put it where my name was. I stayed in front of the poster during the poster section and coffee break. Many participants paid attention and I answered two questions.

Second and third day of the workshop, there were many presentations. Many of them were not related to my research area so I could not understand all of them. Before the closing, Utchanh Kang who is working for UNCCD made a presentation about how to combat SDS. Ana Vukovic also shared

her study on global source mapping. Her study is great and needs much effort but such a study is far from the reality.

At the end, the workshop was closed with a good closure. I attended Izana Observatory trip on 25<sup>th</sup> of May.

**IMPACT ON YOUR RESEARCH AND FUTURE COLLABORATIONS (if applicable)**

(max.500 words)

My poster was presented at the first day of the workshop and in the first floor. This got much attention. My poster was very important because there is a scientific gap for field measurements. Generally, researcher collects meteorological data, remotely sensed data, etc and they are trying to assume SDS phenomenon. Those are great study but as Dr Ali Dousari pointed out, in the 5<sup>th</sup> dust workshop in 2017 in Istanbul, that “we need to touch the dust if we understand” without field measurements SDS events still be complicated (Former UN president said that). In 2016 and 2017, we have collected many dust samples, climate data, and soil data to understand rising dust in Konya, Turkey. What we mainly found was that we need to study more about wind erosion even if study area is small.

Involving in this COST-Action was a great chance to meet with experts of dust modeling, and helped to construct new connections with other related organizations and experts. I would like to thank the Management Committee of the COST Action for awarding me. If I had not been selected, probably I would not have a chance to present my research and meet with excellent experts.



