

# NASE 216 San Diego, United States.

April 10 and April 11, 2021

## Conclusions

This Astronomy module within the NASE course was performed online, using ZOOM. There were 7 teachers participating until the end. Some of the participants did the exercise proposed the first day and calculated the local time using the sundial created during a workshop.

Most of the teachers had students over 12 years old. One of the teachers had younger students. The subjects taught by the teachers were physics, astronomy, natural sciences, chemistry and biology.

Only one of the teachers didn't have previous contact with astronomy. The rest, were teachers that learned something about astronomy in university, as an amateur and/or self-taught.

Most of the teachers said they liked all activities, but one of them preferred only the workshops. Some of the teachers would add workshops, working groups and Observations to this module. One teacher said that the NASE website and the coordination of the activities was poor, the rest said it was either good, or very good. They all agree that the material was very useful.

Some of the critiques were that we should finish on time. It would be better with no NASE introduction (and may be no lectures either). It would be better to have written instructions. There were teach issues.

They would value more lesson plans written out, in person workshops, and breakouts for activities.

### Other observations:

"I tried reading the Powerpoints myself, but hearing the instructor explain, and the other instructors jumping in to add explanation and extra information was very useful. I have made some of the instruments before but this workshop explained how to use them. Showing how to do the activities was good. Explaining the scientific reasons for the activities was valuable too. Thank you very much."

"I know it is a lot of work to put together such high quality professional development. The topics and materials were very well organized and extremely well presented. I cannot wait for the next opportunity from NASE!"

"I wish I was able to fully focus on the material, but it was also good to be able to access this course while at home with my kids taking care of household things too."

"This was just a zoom thing, but coordinating the technology with the activities seemed to be an issue. Just a little bit of practice before starting!"