DYNASTEE

DRAFT Program for the lectures on:
Dynamic Calculation Methods for Building Energy Assessment 19-24 June, 2016
at the Civil Engineering School, University of Granada, Spain.

The opening and closing session will be presented by CIEMAT and DYNASTEE
Note that, lectures will not last more than 60 minutes. Exercise time is planned to be at least 1 hour
and will be scheduled before a coffee or lunch break from Monday until Friday.

Sunday 19 June. Lecture room 101
17:00 Welcome; lecturers and participants introduction
　　　Participants are requested to send two slides (PPT or PDF) to introduce them. See example.
　　　One slide about themselves and one about the argumentation for participating, e.g. expertise.
18:30 Socialising and connecting time.
19:30 End

Monday 20 June.
9:00 Salon de Action
　　　Welcome by the director of Civil Engineering School of University of Granada
9:30 Introduction lecture on in-situ measurements and analysis by P. Baker (invited expert).
10:30 Coffee break and move to Lecture room 101
11:00   H. Bloem; Training makes sense; the Homework exercise of the In-Situ wall.
12:00   Exercise time
13:00 lunch

14:30 P. Strachan; Dynamic thermal modelling and simulation - energy flows and uncertainty
15:30   Coffee break
16:00 Exercise time

Tuesday 21 June.
09:00 MJ. Jimenez; Guidelines to dynamic analysis; Different approaches. Physical aspects.
10:00 Exercise time and coffee break
11:00 P. Bacher; Introduction to time-series analysis.
12:00 Exercise time
13:00 lunch

14:30 P. Bacher. Tutorial on grey-box modelling. Introduction to CTSM-R
15:30   Coffee break
16:00 Exercise time

Wednesday 22 June.
9:00 P. Strachan; Dynamic thermal modelling and simulation - validation and calibration.
10:00 Exercise time and coffee break
11:00 P. Bacher. Guidelines to dynamic analysis; Statistical aspects 13:00 lunch

14:30 MJ. Jimenez; Practical aspects of modelling in different case studies: Integrated PV ventilated
systems and other tests in sunny weather conditions.
15:30   Coffee break

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16:00 Exercise time
17:30 Bus transport to Alhambra; social event. Guided visit
21:30 Evening dinner with all participants and lecturers
23:00 Returning back to hotel.

Thursday 23 June.
9:00 H. Bloem. Model simplification and uncertainty - the limitations
10:00   Coffee break
10:30   Exercise time
13:00 lunch

14:30 H. Madsen. Time Series Analysis for Physical Modelling – Identification of Model Structure
15:30   Coffee break
16:00 Exercise time

Friday 24 June.
9:00 H. Bloem; General aspects of Application of Dynamic Methods - the wider dimension
10:00 Coffee break
10:30 H. Madsen. Time Series Analysis for Physical Modelling – Parameter Estimation and Model
        Validation
11:30 Exercise time
13:00 lunch

14:30   Exercise time and time for further questions
15:30   Coffee break
16:00   Closing lecture
17:00   End of the Summer School 2016

Monday and Wednesday will have two blocks of exercises, while Tuesday, Thursday and Friday will have 3 blocks of exercises which makes roughly half of the week available for exercise time. Note that this is a preliminary program (but almost final) and small changes can take place.

Before the Summer School takes place, all participants are asked to perform an analysis exercise on reference data from a simple in-situ wall experiment. This allows the lecturers to get some prior information about the level of the participants.