

Minutes/Resolutions

APEC-WW2012, Hanoi, Vietnam

The minutes/resolutions prepared by the group on “structural wind engineering” are given below:

1. Prof. Tamura introduced the resolutions of APEC-WW2010. Several papers have been published at the conferences on wind engineering (APCWE7, ACWE12 and AWS). Dr. Holmes presented a paper on behalf of APEC-WW at ACWE12, but he seemed not have prepared a Journal paper.
2. Wind map data (Data will be sent to Mr. Hayakawa at ah@arch.t-kougei.ac.jp)
Mr. Hayakawa introduced the gap of basic wind speed among the APEC-WW countries/economics. He requested the cooperation from participants to send him the wind speed data. It seems difficult to obtain the original raw data of some countries. But, the possibility to obtain the statistical data is very high.
Raw data available: Japan, Korea, Malaysia, Sri Lanka, Thailand (Airport), Vietnam
Statistical data available: Australia, Japan, Korea, India, Taiwan, Malaysia, Nepal, Sri Lanka, Thailand, Philippines, Indonesia, Vietnam, China
Email address of Russia colleagues: Dr. Nikolai Popov
N. Popov (Popov.Nik.A@gmail.com)
N. Kobysheva (kobysheva@mail.mgo.rssi.ru)
(It is also possible to contact via Prof. Nguyen or Dr. Trung)
3. Low rise building model (results will be sent to Mr. Hayakawa)
Drs. Ginger and Stathopoulos described the new example of low rise building. Building descriptions will be re-sent to the participants.
Due date: the end of Feb. 2013.
Contact: Mr. Hayakawa: ah@arch.t-kougei.ac.jp
4. Combination effect in the code
It is dependent on whether the directionality effect is considered or not. Even for low rise buildings, the combination effect should be considered.
5. Discussion on return period of frame and cladding
Basically they should be same.
6. Debris impact
Australia has specification against debris.
Debris impact criteria (Debris type, weight, speed)
Separate document on test method to specify test set-up and specimen response (pass/fail).
7. Design against tornado

For important buildings, it is necessary to consider tornado load. It is not necessary to consider for general buildings. Warning system is more important for saving life.

8. Future plan: Calculation and map.....

It is agreed to meet every 2 to 4 years, possibly at APCWE and/or ICWE. CJK-WE is another possibility.