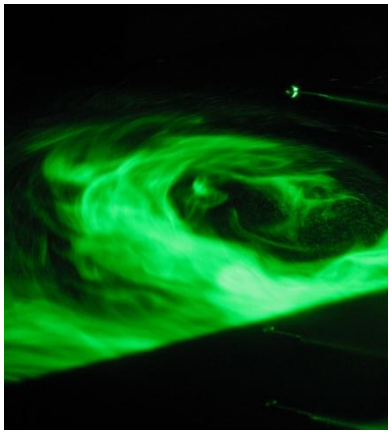
New Frontier of Education and Research in Wind Engineering

Research Areas

- Design and development of a vortex flow generator to study the effect of tornado-like flow on building models.
- Investigations on fluctuations of internal pressures and its characteristics as tornado pass a building model.
- Studying the effect of translational velocity of tornado flow on surface pressures acting on a building model.
- Analysis on effect of location of building models on its surface and internal pressures when subjected to a tornado-like flow.



Name and Stand
Geetha Rajasekharan Sabareesh
Post-Doctoral Researcher

Hometown
Thiruvananthapuram, Kerala, India

Profile
Study
Ph.D from Tokyo Polytechnic University, Japan
M.Tech in Engineering Design from Amrita University, India.
B.Tech in Mechanical Engineering
Work
Assistant Professor in Mechanical Engineering, Saintgits College of Engineering , Kerala, India.

Recent Publications

(1) Geetha Rajasekharan Sabareesh , Masahiro Matsui , Yukio Tamura ,Characteristics of internal pressure and resulting roof wind force in tornado-like flow, 13th International Conference on Wind Engineering, Amsterdam, 2011

(2) Sabareesh.G.R, Yukio Tamura, Masahiro Matsui ,Surface pressure characteristics on a building model in tornado like flow as a function of location from vortex centre, 5th International Symposium on Wind Engineering (ISWE5), Shinjuku, Japan, 2011.

(3) Geetha Rajasekharan Sabareesh, Masahiro Matsui, Yukio Tamura, "Development of a vortex flow generator and investigations on pressure acting on building models in tornado-like flow, 1stIndia-Japan Symposium on Emerging Technologies, Japan,2010

(4) G.R.Sabareesh, Yukio Tamura, Masahiro Matsui, Akihito Yoshida ," Numerical Evaluation of fluctuating internal pressures for various opening configurations in buildings", 5th Computational Wind Engineering Conference, North Carolina, USA, 2010.

(5) G.R. Sabareesh, Masahiro Matsui, Akihito Yoshida, Yukio Tamura, "Pressure Acting on a Cubic Model in Boundary-layer and Tornado-like Flow Fields", 11Americas Conference On Wind Engineering at Puerto-Rico, San-Juan, USA, 2009

(6) Sabareesh. G.R, Yukio Tamura, Masahiro Matsui, Akihito Yoshida , "Fluctuating pressures on cube faces and simulator floor in tornado-like flow", 5thEuropean Conference On Wind Engineering(5EACWE) at Florence, Italy, 2009.

International Journals

(1) "*Precise wavelet for current signature in 3phase IM*" in Elsevier Journal of Expert System with Application ,37(1), January2010.

(2) "*Fault Diagnostics of Roller Bearing using Kernel based Neighborhood Score Multi-Class Support Vector Machine*", in Elsevier Journal of Expert System with Application 34(4),2008.

Awards

Best **Master's Thesis Award** for work in the field of Wind Engineering, by Indian Society for Wind Engineering(ISWE), 2007-08

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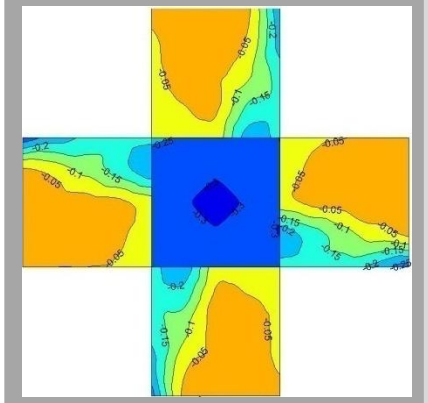
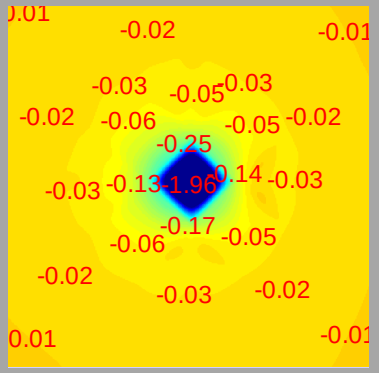


Cube Surface Pressures in Tornado like flow



Simulator Floor Pressures in Tornado like flow