ELSEVIER

Journal of Fluids and Structures 25 (2009) 597–600

JOURNAL OF FLUIDS AND STRUCTURES

www.elsevier.com/locate/jfs

List of all conference presentations

Invited Lectures

F.S. Hover (Opening lecture)
Statistical tools in modeling Vortex-Induced Vibration of distributed structures
J.-M. Chomaz, P. Meliga & D. Sipp
Unsteadiness in the wake of the sphere: receptivity and weakly non-linear global stability analysis
J. M. R. Graham & N. Bampalas
Strip theory prediction of marine riser VIV and hydrodynamics of clashing
J. Magnaudet
Spheroidal bubbles as an archetype of light, freely-moving axisymmetric bodies
E. Meiburg, S. G. Constantinescu & E. D. Gonzales-Juez
The interaction of gravity currents with submarine installations: high-resolution simulations of the impact stage
J. K. Vandiver
Insights on the Flow-induced Vibration of flexible cylinders
J. E. Wesfreid
Physics of the temporal and spatial forcing in flows (wakes, separated flows and boundary layers)

Bluff Body Wakes – Spheres

M. Horowitz & C. H. K. Williamson
Dynamics and wake patterns of rising and falling spheres
J. Miedzik, K. Gumowski, S. Goujon-Durand, G. Bouchet, P. Jenffer & J. E. Wesfreid
Wake behind a sphere in early transitional regimes
L. Prahl, J. Revstedt & L. Fuchs
The interaction between two spherical particles in an oscillatory flow

Bluff Body Wakes – Stability and Ginzburg-Landau Analyses

K. P. Burr & J. A. P. Aranha
The complex Ginzburg-Landau equation and Norberg's lift crisis
O. Cadot, B. Thiria & J.-F.
Beaudoin Sensitivity of global mode instability to local and stationary disturbances in a turbulent wake
J.-M. Chomaz, C. Donnadieu & S. Ortiz
Three-dimensional instabilities and transient growth of trailing vortices in homogeneous and stratified flows
R. S. Gioria, B. S. Carmo & J. R. Meneghini
Floquet stability analysis of the flow around an oscillating cylinder
L. M. Y. da Silveira, C. de A. Martins & J. A. P. Aranha
A qualitative study of the response of the Ginzburg-Landau equation when coupled to the structural model of a submerged cable

0889-9746/$ - see front matter
doi:10.1016/j.jfluidstructs.2009.05.004

Bluff Body Wakes – Multiple Cylinders

I. Korkischko, J. R. Meneghini, E. Casaprima & R. Franciss
An experimental investigation of the flow around isolated and tandem straked cylinders
N. Kevlahan
3D flow stability in rotated and inline tube bundles
J. Lee, P. Anagnostopoulos & S. A.
Seitanis Numerical study of oscillatory flow past four cylinders in rectangular arrangement

Bluff Body Wakes – Other Topics

I. C. Barbeiro, J. A. P. Aranha & J. R. Meneghini
Numerical investigation into the asymptotic solution of the viscous flow around a circular cylinder for Re[600
T. Bewley, J. Pralits & P. Luchini
Minimal-energy control feedback for stabilization of bluff-body wakes based on unstable open-loop eigenvalues and left eigenvectors
R. Bourguet, M. Braza, J. B. Vos, R. Perrin & G.
Harran Anisotropic Organized Eddy Simulation approach for strongly detached unsteady flows
S. J. Chetan & D. S. Luff
Dynamics of vortex shedding from cones
O. Frederich, J. Scouten, M. Luchtenburg & F. Thiele
Database variation and structure identification via POD of the flow around a wall-mounted finite cylinder
E. M. Gennaro & M. A.
Faraco de Medeiros Temporal development of an inviscid asymmetric wake
E. D. Gonzales-Juez, E. Meiburg & S. G.
Constantinescu A study of the interaction of a gravity current with a circular cylinder
P. N. Lavinas, I. C. Barbeiro & J. A. P. Aranha
2D steady symmetric flow around a circular cylinder for Re<600: sensibility to standard far-field boundary conditions and "wake impedance" alternative formulation
B. Levy, P. Brancher & A. Giovannini
Topology of the flow around a vehicle A-pillar: an experimental characterization
T. Leweke, K. Hourigan & M. C. Thompson
Motion of a Möbius band in free fall
P. Luchini, F. Giannetti & J. Pralits
An iterative algorithm for the numerical computation of bluff-body wake instability modes and its application to a freely vibrating cylinder
G. Martinat, Y. Hoarau, F. Dehaeze & M. Braza
Numerical simulation of the flow in the wake of Ahmed body using Detached Eddy Simulation and URANS modeling
H. Nagib, P. Reinhard & J. Kiedaisch
Non-linearities exhibited in control of separated flows
M. A. Ortega, R. M. Girardi & J. H. Silvestrini
Some physical aspects of the wake behind a two-dimensional body with a blunt trailing edge and fitted with splitter plates
L. C. Pinto, D. C. Buarque, E. B. C. Schettini & J. H. Silvestrini
Numerical simulation of vortex wake from a cylinder in an elliptical trajectory
B. Protas
Vortex models for feedback stabilization of bluff body wake flows
S. Shukla, R. N. Govardhan & J. H. Arakeri
Flow over a bluff body with a flexible splitter plate
J. H. Silvestrini & E. Lamballais
Vortex dynamics of a separated boundary layer on a rounded edge by Direct Numerical Simulation
K. Taira & T. Colonius
Three-dimensional simulation of flow around a rectangular flat plate
J. M. Vedovoto, R. Campregher & A. Silveira-Neto
Simulation of the flow past three-dimensional bluff bodies using Immersed Boundary Method and the Virtual Physical Model

M. de A. Vitola, E. B. C. Schettini & J. H. Silvestrini
The influence of constant shear over the structures developed in the wake of a circular cylinder

Vortex-Induced Vibrations – Controlled Vibration

L. Kaiktsis & G. S. Triantafyllou
Computational study of hydrodynamic forces on a cylinder vibrating transversely and in-line to a steady stream
T. L. Morse & C. H. K. Williamson
Understanding mode transitions in vortex-induced vibration using controlled vibration
J. L. Szwalek & C. M. Larsen
Reynolds number effects on A/D using forced sinusoidal oscillations
R. H. J. Willden, R. J. McSherry & J. M. R. Graham
*Prescribed cross-stream oscillations of a circular cylinder at laminar and early turbulent Reynolds num*bers

Vortex-Induced Vibrations – Risers

A. L. C. Fujarra, C. P. Pesce, K. Nishimoto, M. Cueva & F. Faria
Non-stationary VIM of two mono-column oil production platforms
S. Kato, S. Uto, S. Masanobu, H. Suzuki, H. Hiriyama & K. Mochida Riser motion estimation of oil
production system for ultra deep water
A. A. de Lima, J. R. Meneghini, R. B. Flatschart, M. Mourelle & E.
Casaprima Fatigue analysis of a marine SCR (steel catenary riser) due to vortex-induced vibration
C. K. Morooka, R. Franciss, C. G. C. Matt & P. S. D. Pereira
Dynamical analysis of deep water rigid risers: VIV effects
P. S. D. Pereira, K. Maeda, C. K. Morooka & S. Uto
Model tests of self standing hybrid riser in deep-sea basin
S. B. Swithenbank, H. Marcollo & J. K. Vandiver
Time-sharing of frequencies in high-mode number Vortex Induced Vibrations

Vortex-Induced Vibrations – Multiple Cylinders

M. M. Alam & Y. Zhou
Shear-layer-reattachment-induced vibration on a circular cylinder placed behind another
G. R. S. Assi, P. W. Bearman & J. R. Meneghini
Dynamic response of a circular cylinder in the wake of an upstream fixed cylinder
B. S. Carmo, S. J. Sherwin, P. W. Bearman & R. H. J. Willden
Numerical simulation of the flow-induced vibration in the flow around two circular cylinders in tandem arrangements
P. J. S. Jabardo, B. S. Carmo & J. R. Meneghini
Two- and three-dimensional force coefficients of the flow around two circular cylinders in tandem
A. D'Agostini Neto & F. Saltara
Simulation of vortex induced vibration of pairs of cylinders in tandem arrangement using deforming meshes
A. A. P. Pereira, A. L. C. Fujarra & E. J. B. Ribeiro
Interference and clashing experiments with two flexible cylinders on a cavitation tunnel
T. K. Prasanth & S. Mittal
VIV of two circular cylinders in tandem arrangement at low Re

Vortex-Induced Vibrations – Inclined Cylinders and Suppression

G. R. S. Assi & P. W. Bearman
Low drag solutions for suppressing VIV of circular cylinders
A. De Vecchi, S. J. Sherwin & J. M. R. Graham
Wake dynamics of an external flow past oscillating curved cylinders

S. Dong & G. E. Karniadakis
Suppressing the fluctuating lift and Vortex Induced Vibration of a circular cylinder
A. C. Fernandes, F. M. Coelho & R. Franciss
Effectiveness of the guided porosity concept as VIV suppressor
G. R. Franzini, A. L. C. Fujarra, J. R. Meneghini & R. Franciss
Experimental investigation of vortex-induced vibrations on rigid, smooth and inclined cylinders
S. Mittal & T. K. Prasanth
*Hysteresis in VIV at low Re: effect of blockage & m**
H. Suzuki, J. Minamiura, M. Ozaki, Y. Arima & R. Kimura
Time domain VIV analysis of inclined towed pipe based on lookup table of VIV hydrodynamic force
J. B. V. Wanderley, G. H. B. Souza, S. H. Sphaier & C. Levi
Upwind TVD two-dimensional numerical simulation of vortex- induced vibration of a circular cylinder

Vortex-Induced Vibrations – Other Topics

S. Balabani, E. Konstantinidis, C. Liang & G. Papadakis
Numerical study of the effect of velocity perturbations on the mechanics of vortex shedding in synchronized bluff body wakes
S. Kocabiyik, O. I. Gubanov & L. A. Mironova
Forced wake development caused by fluid, body and free surface interaction
F. Nagao, M. Noda, A. Iwata & H. Utsonomiya
Properties of vortex induced vibration of $B/D = 2$ rectangular cylinder under slow change of wind speed
R. Violette, E. de Langre & J. Szydlowski
Mode switching of a tensioned cable in vortex induced vibrations using a linear stability approach