

Znanstveno vijeće za pomorstvo

i

Hrvatsko društvo za mehaniku



Broj: 10 - 166/5 - 2010.

Zagreb, 23. travnja 2010.

Poštovane / poštovani,

U nastojanju da povećaju razmjenu znanstvenih i tehnoloških informacija s najrazvijenijim zemljama, Znanstveno vijeće za pomorstvo Hrvatske akademije znanosti i umjetnosti (HAZU) i Hrvatsko društvo za mehaniku (HDM) povremeno organiziraju javna predavanja eminentnih svjetskih znanstvenika s ciljem upoznavanja najnovijih dostignuća i trendova razvoja na području brodogradnje i pomorstva, strojarstva i građevinarstva.

## P O Z I V

U petak, **7. svibnja 2010. u 12 sati**

u Knjižnici Hrvatske akademije znanosti i umjetnosti,  
Strossmayerov trg 14, Zagreb (zgrada do palače HAZU)

**Dr. John D. Holmes**

JDH Consulting, Australia

održat će predavanje pod naslovom:

### ***Wind loading of structures – recent developments and future directions***

Molimo da o ovom predavanju obavijestite i svoje kolege s obzirom da će ono biti preglednog karaktera i zanimljivo za širi krug stručnjaka.

Predsjednik Znanstvenog vijeća za pomorstvo

  
Akademik Ivo Senjanović

Predsjednik Hrvatskog društva za mehaniku

  
Prof. dr. sc. Zdravko Virag

HAZU, Zagreb, May 7<sup>th</sup> 2010

Lecture:

**'Wind loading of structures - recent developments and future directions'**

Dr. John Holmes (JDH Consulting, Australia)

The presentation will cover a number of topics related to wind loading of structures from the speaker's recent experience. Most, if not all, of the following will be addressed in varying amounts of detail:

- Wind structure - and the elusive thunderstorm,
- Various wind types and the 'myth' of stationarity,
- Extreme wind prediction - mixed climate and 'peaks over threshold' methods,
- Windborne debris - trajectories and risk prediction,
- Wind loads on large roofs - effective static load method,
- Internal pressures with dominant openings,
- Fatigue under wind loading,
- Response of large floating oil production platforms to wind,
- Codification of wind loads.

The speaker will be happy to attempt to respond to questions on the above, or other topics related to wind loading.



**Dr. J.D. HOLMES**

Dr. John Holmes is Director, JDH Consulting, Australia. At various times between 1973 and 2005, he held positions at University of Western Ontario (Canada), James Cook University, CSIRO, Monash University (Australia), and Texas Tech University and Louisiana State University (United States). He is Chair of the Wind Actions subcommittee of Australia and New Zealand, and was actively involved in the writing of Australian Standards AS1170.2-1989, AS/NZS1170.2:2002 (Wind loads) and AS3995-1994 (Design of steel lattice towers and masts). He is the author of: "*Wind Loading of Structures*", second edition, published in 2007, and co-author of "*A Guide to AS/NZS1170.2:2002 – Wind Actions*" published in 2005, as well as over 400 research papers and consulting reports.

Amongst his awards, Dr. Holmes received a Fulbright Fellowship in 1989, the Warren Medal from Engineers Australia in 1990, and a Senior Fellowship from the Japan Society for Promotion of Science in 1996.

He has been involved in the determination of design wind loads for many major structures including: West Gate Bridge, Melbourne; Citycorp Building, New York; Stadium Australia, Sydney; My Thuan Bridge, Vietnam; Docklands Stadium, Melbourne; Melbourne Rectangular Stadium; Baram Bridge, Malaysia; Macau Tower, China; Wembley Stadium, London; Chevron Redevelopment, Gold Coast; Woodside offshore platforms, Mauritania, West Africa; Pluto and Gorgon LNG plants at Burrup Peninsula and Barrow Island, W.A., respectively.