



## FOR A SCIENTIFIC PAPER BY A YOUNG RESEARCHER ON WIND ENGINEERING

The Italian Association for Wind Engineering (ANIV) calls for candidatures for the ANIV Award 2022 to be remitted to a young researcher, Author of a scientific paper in the field of Wind Engineering.

## **REGULATION**

- The Award will be remitted for a scientific paper on Wind Engineering topics (see Annex), published (or accepted for publication) in an international journal indexed in ISI and/or SCOPUS from January 1<sup>st</sup> 2020 to December 31<sup>st</sup> 2021.
- 2. The Author of the paper (or co-Author, if the paper is co-authored) who applies for the award must: 1) have obtained a PhD degree; 2) be born in Italy or have obtained the PhD degree in Italy; 3) be younger than 35 years old at the date of acceptance for publication of the paper. For the purpose of this participation, the positive assessment of the Board of Examiners in the wake of the PhD final defense is deemed to be equivalent to the PhD degree.
- 3. The topic of the scientific paper, especially for co-authored papers, must be clearly related to the research carried out by the candidate during her/his PhD Thesis. Applicants are strongly encouraged to submit a short scientific report (no more than two pages in A4 format) that clearly demonstrates the close connection between the scientific paper and the PhD Thesis.
- 4. Applicants can submit the scientific paper by sending it by email in digital format (pdf) no later than June 30<sup>th</sup> 2022, together with the short scientific report (see Article 3 above) and a copy of a valid identity document that certifies the Author's date of birth, to the ANIV President:

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- 5. The Jury of the Award is composed by the members of the ANIV Steering Committee.
- 6. The scientific papers will be assessed in relation to the following criteria: rigorous methodology, originality of the obtained results, clarity of presentation.
- 7. The decisions made by the Jury may not be appealed at any stage of the contest.
- 8. The Jury could remit a special mention to papers other than the awarded one. The Award could also be remitted ex-aequo.



- 9. The Award consists of 2.000/00 Euro.
- 10. The Award will be remitted within the XVII International Conference of the Italian Association for Wind Engineering (IN-VENTO-2022, September 2022).
- 11.The best scientific papers will be shortlisted, and all Authors who have been nominated will be individually informed of this no later than July 31<sup>st</sup> 2022. Nominated Authors will be invited to present the topic of their scientific paper within a special oral session during IN-VENTO-2022. The oral presentation is merely a means of dissemination of the research among the scientific community and will not be evaluated for the purposes of the Award.

## ANNEX WIND ENGINEERING TOPICS

According to the definition given by Jack E. Cermak (1975), "Wind engineering is best defined as the rational treatment of the interactions between wind in the atmospheric boundary layer and man and his works on the surface of earth".

It is a multi-disciplinary matter concerning multifold topics, among which:

- Meteorology
- Meteorological forecasts
- Micrometeorology
- Turbulence theory
- Wind structure
- Wind climate
- > Numerical and physical modeling of atmospheric flow fields
- Bluff-body aerodynamics
- Vehicle aerodynamics
- Wind tunnels
- Wind tunnel tests
- Full-scale measurements
- Computational fluid dynamics
- Wind loads on buildings and structures
- Windborne debris
- Glass and cladding behaviour
- Wind-driven rain and permeable facades
- Wind effects on transportation
- Wind turbines
- Wind energy production



- > Atmospheric dispersion of pollutants
- Forest fire propagation
- Wind erosion
- Sand and snow-drift
- Windbreaks
- Urban planning
- Architectural aerodynamics
- Bioclimatic engineering
- Pedestrian wind environment
- Natural ventilation
- > Wind actions and effects on long-span bridges
- Wind actions and effects on tall buildings
- Wind actions and effects on wind-sensitive structures
- Static and dynamic wind effects
- Wind-structure interaction, aeroelastic and chaotic phenomena
- Mitigation of wind-induced vibrations
- Reliability and risk under wind loading
- Vulnerability of structures under wind loads
- Wind storm disaster assessment and reduction
- Insurance and re-insurance policies
- Wind codes and standards

(from the statement of purpose of IAWE)