ANIV-G meeting - 2024

Actions programme

Promoters:

Federico CANEPA, Giulia POMARANZI, Lorenzo RAFFAELE

Centro Congressi Le Benedettine, Pisa – 8th September 2024

ANIV-G

- ### Aim

ANIV-G is the group of **young researchers** within ANIV. Its goal is to **promote cooperation** in the **Wind Engineering** discipline, ease the **exchange of ideas**, support the **spreading of knowledge** and **favor contamination** with other scientific communities. The group is open to **students**, **PhDs**, **researchers** and **practitioners** who are interested in deepening their knowledge, sharing their experience and contributing to the development of Wind Engineering. Not limited to ANIV members and no membership fees required, ANIV-G is devoted to young researchers actively working in an Italian company or institution, or who has obtained a Ph.D. in an Italian university.

ANIV-G

- Actions

1. ANIV-G meeting

- to foster **collaboration**, **exchange of ideas** & **outline next ANIV-G steps**

2a. ANIV-G PhD session

- to promote **informal dissemination of research** performed by young members which are completing their last year or just obtained their PhD
  a. 3-min presentation
  b. 20-min (15-min + 5-min Q&A) for top three qualified from (a)

2b. ANIV-G PhD poster session

- to showcase research proposals and goals for young PhD students in their first or second year of doctorate

3. ANIV-G LiveTalk

- to introduce **innovative research topics** from different scientific communities through **seminars**
- to promote dissemination of **research funding opportunities** and **transversal competencies** through **workshops**

ANIV-G promoters
(2022 – 2024 + 2024 – 2026)

Federico Canepa

University of Genoa
(Italy)

Giulia Pomaranzi

Politecnico di Milano
(Italy)

Lorenzo Raffaele

Politecnico di Torino
(Italy)

ANIV-G meeting

Who we are

- 55 ANIV-G Members from 16 Nationalities

- 17 universities

- 6 companies & research institutes

1st kick-off meeting -17/01/2020:

- o Foundation of ANIV-G

- o Presentation of research activities

- o Discussion about new ideas

ANIV-G meeting

Who we are

- 55 ANIV-G Members from 16 Nationalities

- 17 universities

- 6 companies & research institutes

<u>2nd kick-off meeting - 04/09/2022*:</u>

- o   Report of the activities

- o   Passing of the baton

- o   Gather feedback from the members

- o   Outline of the next 2-year program

Organized in cooperation with the former ANIV-G promoters

ANIV-G meeting

Who we are

- 55 ANIV-G Members from 16 Nationalities

- 17 universities

- 6 companies & research institutes

3rd kick-off meeting - 08/09/2024:

- o Report of the activities

- o Gather feedback from the members

- o Outline of the next 2-year program

ANIV-G PhD session

1st Edition, 2020

In-Vento 2020 (web event due to Covid-19) - 07/09/2020

- 7 speakers
- 25 min talks (presentation + Q&A)

ANIV-G PhD session

2nd Edition 2022*

In-Vento 2022 conference – Politecnico di Milano, 04/09/2022

- 14 speakers

- 3-min presentation

- top-3 qualified delivered 30 min talk (presentation + Q&A)

* Organized in cooperation with the former ANIV-G promoters

ANIV-G PhD session

2nd Edition 2022*

In-Vento 2022 conference – Politecnico di Milano, 04/09/2022

- 13 speakers

- 3-min presentation

- top-3 qualified delivered 30 min talk (presentation + Q&A)

Organized in cooperation with the former ANIV-G promoters

Winner:

François Rigo
University of Liège
Parameter identification of generalized Vortex Induced Vibration model

ANIV-G PhD Session

3rd Edition 2024

In-Vento 2024 conference – Pisa, 08/09/2024

- <u>Poster session</u> – 6 participants. Activity mainly designed for first- or second- year PhD students to showcase their research proposal and goals in an informal environment.

- <u>My PhD in three minutes</u> – 5 speakers. All attendees will deliver a 3-minute presentation to showcase their PhD research and pique the audience's curiosity. The audience will vote for the best presentation. This activity is mainly designed for third-year PhD students or early PostDocs.

- <u>My PhD in detail</u> – top two qualifiers from the three-min presentation will be awarded the opportunity to present their research exhaustively with a 30-min presentation.

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ANIV-G LiveTalk (2020-2022)

- ## LiveTalk #1 – 29/10/2020
Guest: **G. Buresti** from University of Pisa (Italy)
Topic: *The fascinating challenges of bluff-body aerodynamics*

- ## LiveTalk #2 – 12/02/2021
Guest: **T. Stathopoulos** from Concordia University (Canada)
Topic: *Seminar on Scientific and Technical Publishing*

- ## LiveTalk #3 – 25/06/2021
Guest: **G. Haller** from ETH Zürich (Switzerland)
Topic: *Material barriers to the transport of momentum and vorticity in turbulence*

- ## LiveTalk #4 – 11/03/2022
Guest: **F. Lombardo** from University of Illinois Urbana-Champaign(USA)
Topic: *Full-scale measurements of wind and wind loading: A renewed importance*

ANIV-G LiveTalk (2022-2024)

- ## LiveTalk #5 – 16/11/2022

<u>Guest:</u> **G.J. O'Reilly** from IUSS Pavia (Italy)

<u>Topic</u>: *ERIES research infrastructure network: how to apply for transnational access grants*

- ## LiveTalk #6 – 27/06/2023

<u>Guests:</u> **S. Rollino** from Politecnico di Torino (Italy)

    D. Fiscaletti from Delft University of Technology (Netherlands)

<u>Topic</u>: *How to build and present a competitive research proposal for MSCA Postdoctoral*

- ## LiveTalk #7 – 22/07/2024

<u>Guest:</u> **P. Groenemeijer** from European Severe Storms Laboratory (ESSL, Germany)

<u>Topic</u>: *ESSL research on severe storms in Europe*

Aim of the seminar:

Machine learning is emerging as a **promising technology** in the field of **Computational Wind Engineering**. For example, it allows to improve turbulence closure modeling, to develop enhanced reduced-order models, amongst others. The seminar is intended to discuss **emerging areas** of machine learning with one eye towards wind engineering as well as some **potential limitations**.

Overview (tentative):

- Insight into Machine Learning Techniques
- Applications in disciplines contiguous or overlapping with Computational Wind Engineering
- Some potential applications on Computational Wind Engineering

When (tentative):

TBD

Where:

online

Who:

Expert from academic sector in disciplines contiguous/overlapping to Wind Engineering

Aim of the seminar:

Aeroacoustics has been explored in different engineering fields, e.g. from automotive to aerospace. Nowadays, aeroacoustics is also becoming a key issue in the **building industry** due to the recent **innovation driven by architectural design**. The seminar is intended to discuss **past** and **emerging areas** of aeroacoustics with one eye towards wind engineering.

Overview (tentative):

- Insight into Aeroacoustics
- Applications on field contiguous or overlapping with Wind Engineering
- Some applications related to Wind Engineering (from wind turbines to building facades)

When (tentative):

TBD

Where:

online

Who:

Expert from academic sector in disciplines contiguous /overlapping to Wind Engineering and/or from industry

Aim of the seminar:

Climate change is one of the **main socio-economic challenges** of the new century. The rising intensification and sharp increase in frequency of **natural disasters related to extreme wind events** invokes a deep understanding of the climate evolution in the last decades to **predict future scenarios** and **adopt the necessary measures**.

Overview (tentative):

- Climate change effect on main climatic parameters and wind over the last few decades
- Mitigation measures and risk management

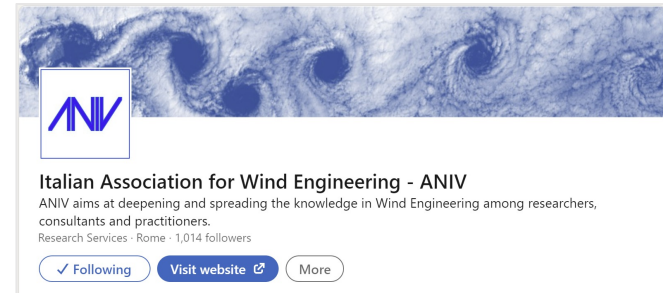## When (tentative):

TBD

Where:

online

Who:

Expert from academic sector in disciplines contiguous/overlapping to Wind Engineering

Dissemination

- ANIV LinkedIn profile

https://www.linkedin.com/company/aniv-iawe/

- News from ANIV

https://www.aniv-iawe.org/news-from-aniv/

- ANIV-G section on ANIV website

https://www.aniv-iawe.org/aniv-g/

Italian Association for Wind Engineering - ANIV
ANIV aims at deepening and spreading the knowledge in Wind Engineering among researchers, consultants and practitioners.
Research Services · Rome · 1,014 followers

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⇒ ANIV-G Meeting 2020

The first ANIV-G Meeting was held on 17 Jan 2020 at Politecnico di Milano. More than forty members from sixteen institutions participated to the initiative. In order to favor collaboration between the community, short presentations describing the main activities carried out within each research group were collected in the Book of presentations, which can be downloaded from the link reported below.

⬇ PDF   ANIV-G MEETING 2020 – BOOK OF PRESENTATIONS

⇒ In-Vento 2020 PhD session

During congresses it is usually very hard to convey to the public the complexity of the research performed during a PhD. ANIV-G, in collaboration with the In-Vento 2020 organizing committee, organized an informal session specially dedicated to the dissemination of the research performed by young members which are completing their last year or just obtained their PhD. The book collecting the presentations can be downloaded below.

⬇ PDF   ANIV-G PHD SESSION 2020

Feedback from you

Now we'd love to hear your thoughts on how we can improve ANIV-G.
Please share your feedback in response to the questions below.

Remember, we're here to help coordinate, but ANIV-G thrives because of its members. It has no hierarchical structure – every opinion matters!

1 Vai a **wooclap.com**

2 Immettere il codice dell'evento nel banner superiore

Codice evento
RKLZHH

Many thanks for your attention!

ANIV-G Actions Programme