

Editorial

# **The International Journal of Turbomachinery Propulsion and Power: The Open Access Dissemination Tool for Research on Turbomachinery**

**Marcello Manna**

Dipartimento di Ingegneria Industriale, Università di Napoli Federico II, via Claudio 21, 80125 Napoli, Italy; marcello.manna@unina.it; Tel.: +39-081-7683287

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It is a true privilege for me to welcome the launch issue of the *International Journal of Turbomachinery Propulsion and Power*, a new open access journal focussing on science and technology development of turbomachinery in the related relevant fields of turbomachinery based propulsion and power systems.

Turbomachinery is a critical, and certainly the most expensive, component of all gas turbine, whether for aeronautical or industrial applications, as all manufacturers well know. While the market is looking forward to new developments meeting ever more stringent and severe requirements in terms of emission and fuel consumption, the benefits induced by the modernization of the equipment seem only possible through major advances in fundamental and applied research. This awareness equally applies to the neighbouring fields of power generation from hydro, wind or marine energy sources.

But there is more, as turbomachineries take fully and duly part of our daily life. Indeed, other but the environmental issues need to be addressed to keep those technically very complex components updated, like reliability and safety to quote two very important aspects.

The *International Journal of Turbomachinery Propulsion and Power* has been conceived as an interdisciplinary dissemination tool, although the core of the journal remains within the design, the analysis, the modelling and the testing of turbomachinery and turbomachinery based propulsion and power system. Technological leap at system and component level, application and use of new flow concepts, advanced experimental and numerical techniques naturally fit within the scope of the journal. We warmly welcome any manuscript of high scientific quality addressing fundamental and applied issues of turbomachinery flows.

The open access format of the journal will grant effective and unrestricted dissemination of the science incorporated in the manuscripts to a wide readership, precisely in line with the EU approach to Open Science in Europe. The objective is to foster the cooperation among the key stakeholders from the research and scientific sectors in order to accelerate the compulsory transition process towards open access of scientific publications and the diffusion of research data and advances. Making research results more accessible will lead to more efficient science and to enhanced innovation in the public and private sectors.

The journal is owned by Euroturbo [1] a not-for-profit international scientific organization legally established in February 2012. Euroturbo was founded by a group of committed scientists and engineers who have actively contributed to the success of several scientific events in the field of turbomachinery over the past twenty-five years. The outcome of those events, the growing number of participants to the international conferences managed by the society, the interest from the industrial world to the activities of the society, led this group of people to the conclusion that a more formal commitment was necessary. The birth of Euroturbo will ultimately best implement the harmonization and dissemination objectives of the European Commission, making it possible the creation of this journal, conceived long time ago, and firmly supported by our community.

It goes without saying that all this was made possible by the enthusiastic support that the Multidisciplinary Digital Publishing Institute (MDPI) provided to our organization. I am confident

that we shall not disappoint the MDPI, and our supportive colleagues, not least because our established record of applying a severe but fair review process will ensure the quality of the journal and its impact in the field of turbomachinery.

As Editor-in-Chief I would like to encourage all interested scientists worldwide to submit their research to this exciting new journal. Together with our Associate Editors, I am looking forward to contributing to the inevitable success of the *International Journal of Turbomachinery Propulsion and Power*.

## Reference

1. European Turbomachinery Society homepage. Available online: [www.euroturbo.eu](http://www.euroturbo.eu) (accessed on 4 August 2016).



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