



EFNMS Excellence Award for M.Sc. Thesis & Ph.D. Thesis in Maintenance

The objective of the EFNMS Excellence Award is to promote, encourage and motivate the theoretical and applied research and developments in different topics related to maintenance knowledge and practice amongst the students of the European Universities and Research Institutes. The primary areas of interest are Maintenance Engineering, Maintenance Management, Information and Communication Technologies for Maintenance, Maintenance Modeling Methods and Systems, Maintenance Services. The current edition of the Excellence Award will deliver two types of awards:

- M.Sc. Thesis Award (MTA);
- Ph.D. Thesis Award (PTA).

The candidate theses should be:

- theses made to pursue the Master of Science (M.Sc.) degree;
- theses made to pursue the Doctor of Philosophy (Ph.D.) degree.

The Awards will be presented during the EFNMS EuroMaintenance 2021 in Rotterdam, Netherlands. Professor Macchi from Politecnico di Milano is the jury chairman. Assisted by dr. Juan Juan Gomez Fernandez from Spain. The Awards are sponsored and supported by the Salvetti Foundation.

Short history of EFNMS Excellence Award

The idea of an EFNMS Master of Science Thesis Competition in the field of Maintenance was launched from one of the Scandinavian countries in 1998. The proposed Competition Program was accepted by the EFNMS Board in 1999, and the first EFNMS Master of Science Thesis Award was (for the first time) issued at the EUROMAINTENANCE Conference 2000 in Gothenburg. Sweden has been the coordinator for the Master of Science Thesis Award, and Prof. Hans Ahlmann has been Chairman of the first Award Committee. More recently, the Award Committee was chaired by Professor Uday Kumar, assisted as Secretary by Professor Aditya Parida, from the Lulea University of Technology: they successfully conducted the EFNMS Excellence Award for 2010, 2012 and 2014. The winners of the recent editions are enlisted in the reminder.

- The MTA 2010 was granted to Mr. Juan Francisco Gomez Fernandez, Universidad de Sevilla, Spain, author of the Thesis entitled Design & Implementation of a Maintenance Management framework in distribution network services providers. Maturity and intellectual capital evaluation based on the distribution network reliability; the award was granted during the EFNMS EuroMaintenance Congress & Exhibition 2010, Verona.
- The MTA 2012 was granted to Mr. Francesco Di Leone, Politecnico di Milano, Italy, author of the Thesis entitled Maintenance Service Maturity & Economic Value of ICT in maintenance activities; the award was granted during the EFNMS EuroMaintenance Congress & Exhibition 2012, Belgrade.
- The MTA 2014 was granted to Mr. Mikael Öhman, Aalto University, Finland, and Mr. Bruno Pinna, Institute National Polytechnique de Lorraine, France, as Joint-Winner for the Thesis respectively entitled Improving Installed Base Information Utilization in a Preventive Maintenance Field Service Process and Deterministic and probabilistic dependability assessments of a critical system; the award was granted during the EFNMS EuroMaintenance Congress & Exhibition 2014, Helsinki.
- The MTA 2016 was granted to Mr. Ville Iilmonen, Aalto University, school of science. Author of the Thesis entitled Enhancing service quality and productivity in maintenance service by improving scheduling. The award was granted during the EFNMS EuroMaintenance Congress & Exhibition 2016, Athens.
- The PhD award 2018 was granted to Dr. Peter Kipruto Chemweno. Representing Belgium, University of Leuven. Author of the Thesis entitled; The added value of asset management in developing countries context: A case for Kenya. The award was granted during the EFNMS EuroMaintenance Congress & Exhibition 2018 Antwerp.
- The MTA 2018 was granted to Mr. Asier Erguido Ruiz representing Spain. University de Sevilla – Bilbao for his paper Optimization of asset management strategies based on life cycle costs due to non -reliability. A wind case study. And granted to Mr. Ville Iilmonen representing Finland. Aalto university, School of Science for his paper "Enhancing quality and productivity in maintenance service by scheduling"

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Salveti Foundation

The Honour Roll of Awardees is herein reported since 2000.

2000		Hedda Flage Olsen Camilla Holmbor
2002		Mark Edelenbosch
2004		Mikael Hægerty Mikael Johanson
2008		Håkan Borgström
2010		Gomez Fernandez
2012		Francesco Di Leone
2014		Mikael Öhman (Joint -Winner)
		Bruno Pinna (Joint -Winner)
2016		Ville Iilmonen
2018 - MTA		Asier Erguido Ruiz
		
2018 - PTA		Peter Kipruto Chemweno

Strategy of the Excellence Award for M.Sc.& Ph.D. Thesis in Maintenance

The EFNMS took a decision to revive and present the bi-annual "EFNMS Excellence Award for Master Thesis in Maintenance and closely related topics" for the students from the EFNMS member countries. Owing to this decision, the EFNMS Excellence Award is granted at EuroMaintenance conference every alternate year. Salvetti Foundation sponsored the M.Sc. Thesis Award (MTA) from 2012. Salvetti Foundation will act as sponsor starting in 2018 for the M.Sc. Thesis & Ph.D. Thesis Award (MTA & PTA). The purpose of the Excellence Award is to promote, encourage and motivate the theoretical and applied research and applications of research outcomes in the areas of Maintenance Engineering and Management amongst the students of the European Universities and Institutes.

Process of the Excellence Award for M.Sc.& Ph.D. Thesis in Maintenance

The Thesis Award Committee is responsible to define the final ranking and the winners of MTA and PTA. The Award Committee is supported by an active panel of experts, representing academia and industries, and forming two Juries (MTA Jury and PTA Jury) with the duty to judge the quality of the nominated theses at National level (i.e. the theses nominated by the National Maintenance Society as Winners at National level). At the National level, the process is carried out with the active involvement of, at least, one University Teacher/Researcher

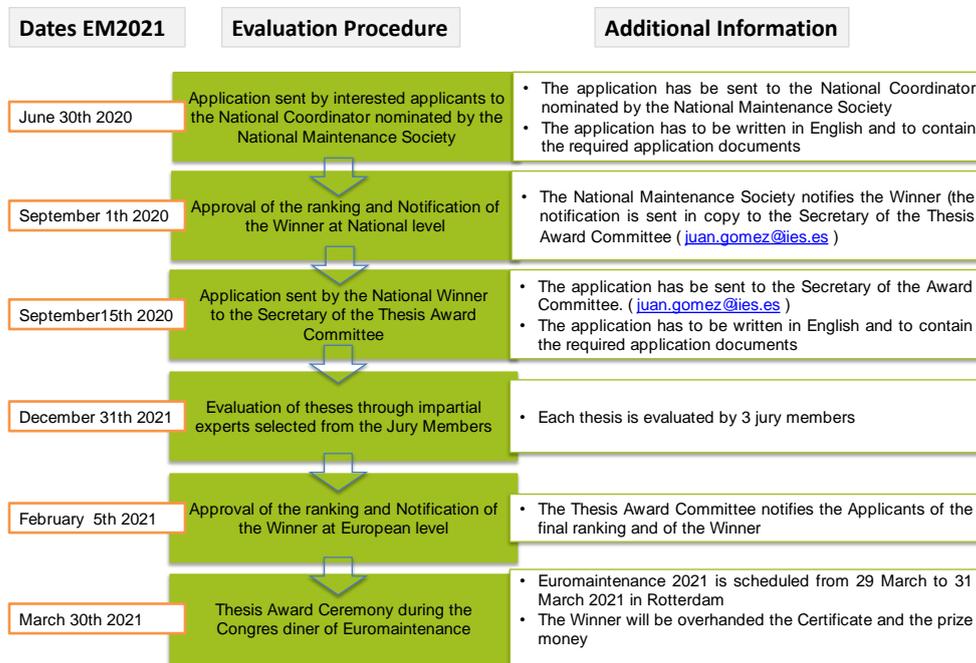
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Procedure of the Excellence Award for M.Sc. & Ph.D. Thesis in Maintenance

The evaluation procedure is presented by the following workflow: each phase of the procedure has to be done by the indicated date as deadline.



Evaluation procedure – the **whole work-flow** communicated through the **web site**

The thesis has to comply with the following requirements:

- it has to be produced during the last two years (i.e. 2019–2020 for EuroMaintenance 2021);
- it has to be written in English language.

Besides, when applying at European level, the National Winner has to send the following required application documents:

- the Documentation related to the Thesis, consisting of two items: i) the Executive summary (maximum 5 pages as summary of Scope/objective, Methodology and Results) + ii) the Full thesis, provided with a clear indication in regard to the type of thesis (M.Sc. thesis or Ph.D. thesis);
- the Background and Foreground of the Thesis, consisting of two items: i) the Curriculum Vitae of the applicant and ii) a declaration in regard to the Usefulness of the Thesis results (in the form of a statement declaring the reflection of the applicant in regard to the usefulness of the results achieved by the Thesis).
- In order to promote more countries to participate in the competition, it can be decided by the jury, that in special cases national nominees are allowed to send an executive summary in minimum 5 pages. The full thesis can be written in the national language.**

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EFNMS Awards

The Evaluation of the Theses at European level will be done through the impartial judgements of experts selected from the respective Jury (PTA or MTA Jury). The following Evaluation Criteria are common to the different types of Thesis Award:

- Scientific Value and Academic Relevance
- Industrial Relevante
- Creativity (innovativeness)
- Presentation

A scorecard is defined where each criterion is assigned a maximum score, while the weights for the Evaluation Criteria are different depending on the type of award, as a different level of scientific and practical outcomes is expected from different theses at different levels of degree, i.e. Ph.D. and M.Sc.

EFNMS Awards

Thesis Award Committee (MTA & PTA)

- Professor Marco Macchi, Politecnico di Milano, Scientific Chairman
- Professor Werner E. Tschuschke, member Salvetti Foundation
- Professor Per Schjölberg, EFNMS BoD: Member
- Dr. Juan Comez Thesis Secretary
- One member appointed by the EFNMSvzw GA

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