PLAST INDUSTRIEN
Brancheforening for danske plastvirksomheder

PLASTPRISEN 2023

Nominering af følgende person til Plastprisen 2023:

Navn: Guido Tosello, Associate Professor, Head of Studies, PhD

Adresse: Technical University of Denmark, Department of Civil and Mechanical

Engineering (DTU Construct), Produktionstorvet, 427A – 2800 Kgs. Lyngby, Denmark

Begrundelse:

Guido Tosello has been instrumental in establishing a strong collaboration between DTU and the Danish Plastic Industry.

During his career, Guido has been teaching Injection Moulding and Plastic Technology to more than 2500 students so far. At the same time, since he started at DTU, Guido has supervised 74 MSc thesis students, of which 67 did their project in the field of plastics technology, as well as 18 Bachelor thesis students, of which 17 did their project in the field of plastics technology.

Guido has initiated several PhD projects throughout his career. Since 2008 he has been supervisor/co-supervisor of 24 PhD students, of which 21 carried out their PhD project in the field of plastics materials and manufacturing engineering, also in collaboration with many Plastic Industry Danish Companies.

He has managed and supervised projects together with The LEGO Group, NovoNordisk, Carmo, KnudsenPlast, Coloplast, NILT, Ortofon.

5 PhD students supervised by Guido Tosello now work at The LEGO Group as Senior Engineers/Technology Managers. 2 PhD students supervised by Guido Tosello now work at Novo-Nordisk as Senior Engineers/Associate Manager. More than 10 MSc students supervised by Guido Tosello now work at Novo Nordisk in engineering positions related to plastics materials, injection moulding and tooling.

Guido Tosello started his career in the field of plastics engineering when he joined the Technical University of Denmark (DTU), Department of Mechanical Engineering, in 2005, to pursue his PhD. In his PhD project Guido developed the micro injection moulding technology. With the experience matured during his PhD project he expanded his knowledge in the field of injection moulding, polymers, and design of plastic products.

In 2008 he was appointed Assistant Professor and took over the Design of Plastic Products MSc course which had 30 students at that time. Guido has since then continuously developed the course, updating the content with the latest trends in the plastic industry such as process simulation, digital prototyping, sustainability and recycling, and establishing several projects with the industry.

The Plastic Design course has been running **continuously since 2008** and for the past 10 years it has been attended by 70-100 students every year.

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With his appointment as Assistant Professor in 2008 and as Associate Professor in 2011, Guido has carried out a number of initiatives both in Education and in Research related to Plastics. For the past 15 years he has been responsible of the MSc course 'Experimental Plastics Technology', a very successful project course that involves 20-25 students every year, with many projects carried out in collaboration with plastic industry Danish companies.

From 2007 until 2020 he was involved in two other courses at our Department on 'Micro Manufacturing' (30-40 students every year) and Precision Manufacturing' (40-50 students every year) where he was responsible for the Micro Injection Moulding and Precision Injection Moulding lecture modules. In 2021 he started a new course on 'Digital Manufacturing – Industry 4.0' where he is responsible for the Injection Moulding, Data Analytics and Process Simulation module. This new course attracts every year 50-60 students.

From 2021, Guido is Head of Studies for the DTU MSc program 'Materials and Manufacturing Engineering'. He is currently working (1) towards the establishment of a MSc Focus Area 'Plastics Materials and Manufacturing Engineering' in the program and (2) in the development of the Digital Twin MSc Education Program for employees in the manufacturing Danish Industry, including the Plastic Industry.

Evt. uddybende links:

https://orbit.dtu.dk/en/persons/guido-tosello/publications/

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