

MY TRANSFO is the strategically and technically relevant event for transformer users and transformer producers; it is probably one of the best events in Europe and in the world

MY TRANSFO 2018

Marking the 50th anniversary of Sea Marconi, the founder and organizer of My Transfo conference

MY TRANSFO 2018 (www.mytransfo.com) was the ninth edition of the conference focused on transformers and transformer oil. This 2-day conference, held in Turin, Italy, December 18th-19th 2018, gathered 185 participants from 27 countries. 99 companies were represented. 26 speakers, through the presentations and two round-table discussions, provided a lot of valuable content for the audience. The ninth edition was also very emotional because it coincided with Sea Marconi's 50th anniversary, the founder and organizer of My Transfo conference, so the event marked the celebration. The visit to Sea Marconi headquarters on December 20th enabled additional opportunities for learning, and a rich social program, based on famous Italian hospitality and kindness, provided great opportunities for networking.



Fabio Scatiggio,
Laboratory Manager,
Terna Rete Italia

Fabio Scatiggio, Laboratory Manager, Terna Rete Italia (Italy)

Terna is the biggest operator in Europe for the transmission of electricity and the decision to take this new challenge of using vegetable ester fluid instead of the classical mineral oil is due to a lot of reasons. Some reasons are based in safety precautions, since this new generation of vegetable fluid has higher flash point and now we have a very relevant increase of safety inside our substations. The second very relevant approach is due to the biodegradability, so in case of leakage or spillage it is very easy to resolve problem of the pollution of the ground and the pollution of groundwater. Another relevant aspect is the sustainability. Now we do not use the finite sources, but renewable ones such as crops, since they can be yielded repeatedly through harvest



Celebration of Sea Marconi's 50th anniversary

When we come home at night, plug the devices in the outlets, and we expect them to work - this is the final reason why we need MY TRANSFO

and continuous replanting, thus decreasing the impact on planet Earth's resources. Another relevant aspect is the ability that vegetable esters have, in combination with some specific type of paper, to give an increase of load, maintaining the same size of transformer; so the combination of all these aspects reflects the idea and the reason why TERNA decided to go further in the direction of the vegetable fluids.

I started to attend the MY TRANSFO probably since the initial edition in 2002. At the beginning I was just a visitor, but with time I developed other interests and was invited by the organization to give different types of speeches that touched upon many different aspects. The significance and the relevance of MY TRANSFO compared to some other similar events is that it addresses both strategic and technical aspects relevant to transformer users and transformer producers. Therefore, I would strongly recommend to all my colleagues to attend MY TRANSFO. I also strongly recommend it because it is a good opportunity for experience sharing, and you will return home with abundance of new information. That, I would say, is the main reason to attend.



Kevin Rapp,
Principal Chemist,
Cargill

Kevin Rapp, Principal Chemist, Cargill (USA)

The advantages of natural ester liquids - we actually started out in our develop-

ment program back in the early 90s. We were interested initially in two things, and that is environmental and the high fire point for safety purposes, and actually after that point we started testing in the lab and became very interested in its properties and in way to interact with cellulose insulation. And actually it is interesting because what is done has combined the field of chemistry with electrical engineering, which actually is the perfect solution for transformers.

MY TRANSFO is a wonderful opportunity for the producers, the manufacturers, and the end users to come together and have really great debates, and what's important for the future of transformers, what's interesting for natural and synthetic esters, and even mineral oil, and how they interact in the equipment that we rely on to keep the lights on.

I would highly recommend MY TRANSFO to anyone who's interested in learning about technology for electrical equipment, not only transformers, but other devices here that are integral to really keep the power flowing, and to go home at

night, plug the devices in the outlets, and expect them to work, this is why we need MY TRANSFO.



Russell Martin, Chief Scientist, M&I Materials (UK)

MY TRANSFO is an excellent conference bringing together all the distinctive part of the industry, from fluid manufacturers, OEMs, utilities, end-users, etc. It provides a good platform for exchange of views and it's very, very worth ply.

The positive sides of natural esters are that they are sustainable, and they are readily biodegradable, and they have a high fire point, so these are distinct advantages. It's also been proven that natural esters can enhance the lifetime of cellulose paper that's wound around the electrical part inside the transformer. The downside is that they are not quite as stable as synthetic ester or mineral oil, so, in a nutshell, that is

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the difference between synthetic ester and other fluids.

Good reasons to choose a natural ester over a mineral oil is that natural esters have a very high fire point, so they are far less flammable than mineral oil. They're also readily biodegradable, so the reasons for people to opt for natural esters are fire safety and environmental protection.

Tony McGrail, Solutions Director, Doble Engineering Company (USA)

The role of MY TRANSFO is very important in the industry. It is a very useful event for sharing and discussing activities. It is also a very pleasant event to attend, there are many people in a collegial atmosphere discussing oil, transformers, and the industry. It is useful to meet people and colleagues, to make friends, and to discuss attitudes, but also to discuss the industry and make sure we are ahead of the curve.

This time I was talking about asset health index, which is a means to document what you already know about transformer data, analysis and support planning into the future. An asset health index should be justifiable, it should be auditable, it should have an action, and it should also have a timescale, so that we can actually work in a sustained and sensible manner on our assets. An asset health index should at the first instance mean something, it has to have a value, it's a number or a letter or a code, we must understand exactly what the implications are for each individual



Tony McGrail, Solutions Director, Doble Engineering Company

index. There is a need for calibration of health index and the whole organization in asset management world needs to understand the value that an asset health index can bring in streamlining work and justifying work.

An asset health index is an example of an algorithm, which is used to support asset management decisions. In some cases, people forget that they need to understand the details of the algorithms and the role of artificial intelligence and fuzzy logic is to support the asset manager, not to replace the asset manager in the decisions.

Vander Tumiatti, President of MY TRANSFO, Sea Marconi general partner, (Italy)

MY TRANSFO 2018, held on December 18th - 19th in Turin was a big, but also a very emotional event for all of us because it coincided with Sea Marconi's 50th anniversary, so the event marked the celebration. We have more than 185

MY TRANSFO 2018 is a very emotional event for all because it marks the 50th anniversary of Sea Marconi

people and among them 26 speakers coming from 27 different countries. The arguments discussed are very exciting because they represent issues that common people face and the challenges for the future. It is also a good opportunity to share knowledge, experience, and to put together our capability to support the stakeholders in terms of the loss prevention, environmental protection, generation, transmission, distribution and the usage of electrical energy worldwide. The population of our planet in 1950 was about 2.5 billion people and in 2050 it is estimated the population will be 9.7 billion. The energy demand will increase a lot, especially in Asia, Africa, and South America. This will yield new

challenges for everybody to create a new product, come up with new solutions, put together the best conditions possible and then to use the new technology to create sustainable solutions based on four pillars: 1. Social communication 2. Augmented knowledge thanks to the combination of different technologies (IOT, cloud, big data analysis, deep learning machine, and others) in order to have a combination of human experience and artificial intelligence 3. Traceability of the activities to guarantee the security in our network based on blockchain technology 4. Validation of products and processes with best available technique (BAT) and best environmental practices (BEP).



Vander Tumiatti,
President of MY TRANSFO,
Sea Marconi general partner

