



PEZHVAC

پژواک

پژوهش ایده کاوش (سهامی خاص)

Research & Innovation Co.

**Technical Visit to Companies specialized in  
Metal & Steel Wastewater Treatment and Process Water  
June 2<sup>nd</sup>-9<sup>th</sup>, 2019  
Belgium**



**worldsteel**  
ASSOCIATION

**EUROFER**  
The European Steel Association



ADVANCED INDUSTRIAL SENSORS



**InOpSys**



**Spechim**  
BIOLOGICAL & CHEMICAL SOLUTIONS



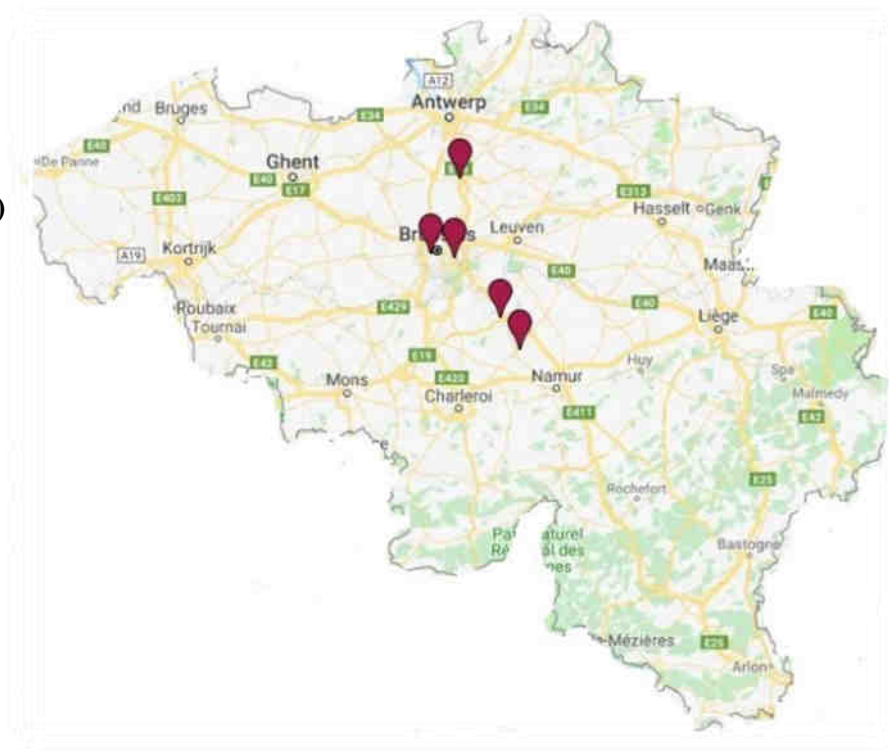
## Summary of Technical Visit to Companies specialized in Steel & Metal Wastewater Treatment and Process Water

- Belgium
- June 2<sup>nd</sup>-9<sup>th</sup>, 2019

To accomplish the defined goals of Pezhvac Research and Innovation company, for familiarizing managers of private and governmental sector with the newest technologies and knowledge in the field of Steel and Metal wastewater treatment for conducting business between Iran and Belgium, some technical visits to related companies in Belgium, on June 2<sup>nd</sup>-9<sup>th</sup>, 2019 has been arranged.


In this business trip, the group of 15 Iranian top-executives and decision makers in Steel Industry has visited the below mentioned companies during the mentioned duration of June 2<sup>nd</sup>-9<sup>th</sup>, 2019:

- Spechim SA
- World Steel Association
- Eurofer (European Steel Association)
- InOpsys
- Advanced Industrial Sensors (Advis)





➤ In the following pages, you may find some detailed information of this technical visit:

<b>Company</b>	<b>Spechim Co.</b>	
<b>Company's Location</b>	Gembloux, Belgium	
<b>Appointment Location</b>	Head office	
<b>Field of Activity</b>	<p>Spechim was founded in 1964 as a wastewater treatment solution provider company to furnish manufacturers and suppliers with an organization capable of producing specialties for the general chemicals sector.</p> <p>For the past 40 years, they have constantly expanded and innovated and now they have customers from all sectors:</p> <ul style="list-style-type: none"> <li>• Mechanics: cars, railways, metallurgy, etc.</li> <li>• Construction industry: construction, renovation</li> <li>• Printing press: offset, security printing (national banks)</li> <li>• Glass industry: crystal, industrial glass</li> <li>• Horeca: general maintenance</li> <li>• Food industry: food coloring agents and flavoring</li> <li>• Chemicals industry</li> <li>• Agriculture: mixtures of fertilizers and maintenance products</li> </ul>	





### Visit to Spechim Co., Belgium

■ Technology Units Incubator, Shahid Beheshti University,  
Daneshjoo St., Velenjak., Tehran, Iran.  
■ Post Code: 1983963113  
■ Reg. Code.: 462000      ■ National code: 14004474063  
■ Tel: +98(21)22419445      ■ Fax: +98(21)22402493  
■ Web Site: [www.pezhvac.com](http://www.pezhvac.com)  
■ E-mail: [info@pezhvac.com](mailto:info@pezhvac.com)

■ تهران، ولنچک، بلوار دانشجو، دانشگاه شهید بهشتی، مرکز رشد واحدهای فناوری  
■ کد پستی: ۱۹۸۳۹۶۳۱۱۳  
■ شماره ثبت: ۴۶۲۰۰۰      ■ شناسه ملی: ۱۴۰۰۴۴۷۴۰۶۳  
■ تلفن: ۰۲۱-۲۲۴۱۹۴۴۵      ■ فاکس: ۰۲۱-۲۲۴۰۲۴۹۳  
■ پایگاه الکترونیک: [www.pezhvac.com](http://www.pezhvac.com)  
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### Visit to Spechim Co., Belgium





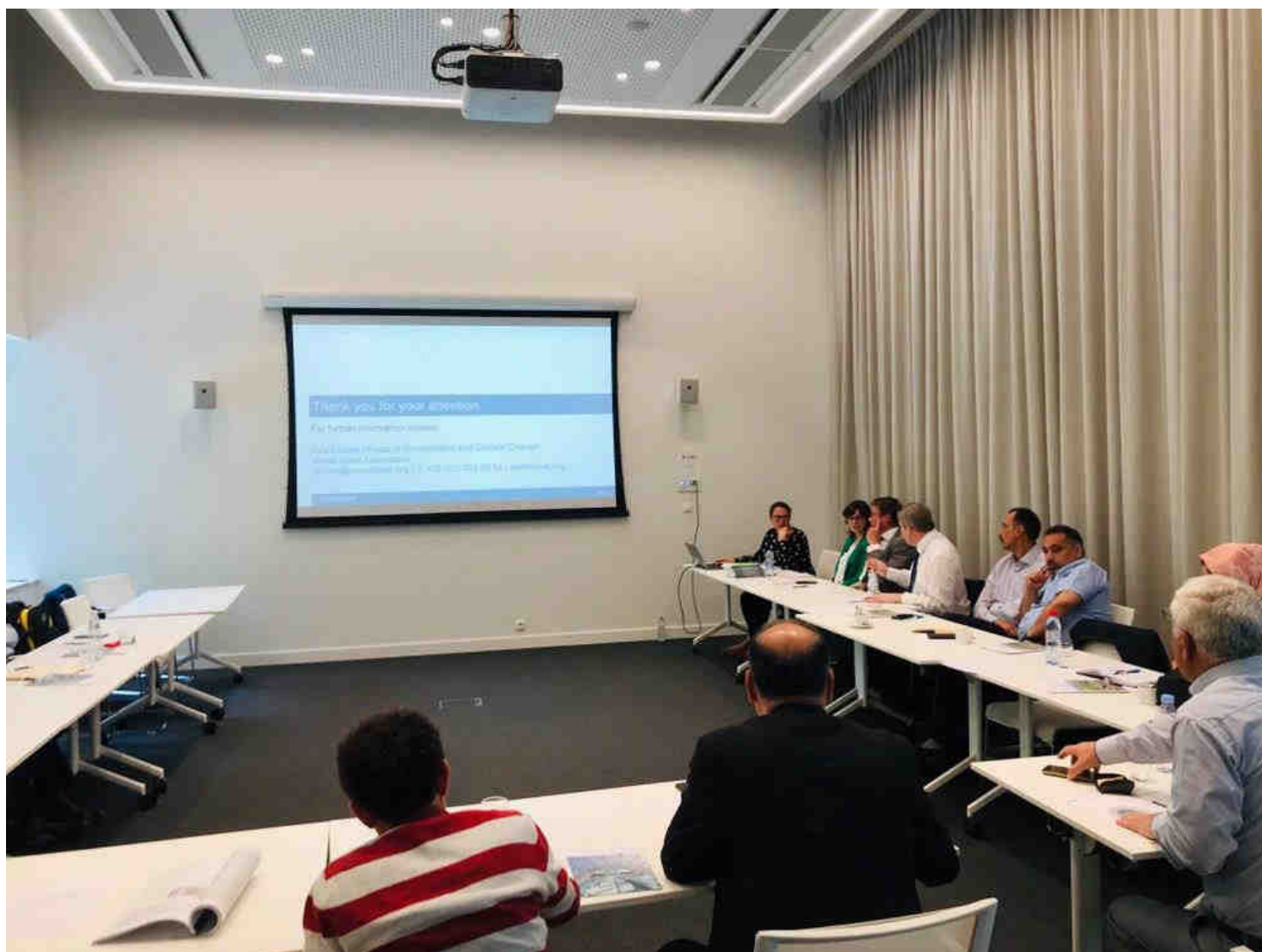


<b>Company</b>	<b>World Steel Association</b>	
<b>Company's Location</b>	Brussels, Belgium	
<b>Appointment Location</b>	World Steel Association Headquarter	
<b>Field of Activity</b>	<p><b>Worldsteel</b> is one of the largest and most dynamic industry associations in the world, with members in every major steel-producing country. <b>Worldsteel</b> represents steel producers, national and regional steel industry associations, and steel research institutes. Members represent around 85% of global steel production.</p> <p>It was founded as the International Iron and Steel Institute on 10 July 1967. It changed its name to the World Steel Association on 6 October 2008. The association celebrated its 50th year anniversary in 2017. The main goals of this association are as following:</p> <ul style="list-style-type: none"> <li>▪ To act as the focal point for the steel industry providing global leadership on all major strategic issues impacting the industry, particularly focusing on economic, environmental and social sustainability</li> <li>▪ Deliver benchmarking analysis and drive global improvement initiatives in the areas of environmental protection, technology, safety and people development</li> <li>▪ Promote global market development opportunities for steel and promote steel to the world at large and so on.</li> </ul>	



# WORLD STEEL ASSOCIATION

## Climate Change Department







## Meeting with World Steel Association

### Climate Change Department

Discussion about the current situation of water usage, wastewater treatment and environmental issues as well as their solutions in Steel production



<b>Company</b>	<b>Eurofer</b> <b>European Steel Association</b>	<b>EUROFER</b> The European Steel Association
<b>Company's Location</b>	Brussels, Belgium	
<b>Appointment Location</b>	World Steel Association Headquarter	
<b>Field of Activity</b>	<p><b>The European Steel Association (EUROFER) AISBL</b> is an international not-for-profit organization under Belgian law, based in Brussels.</p> <p>EUROFER was founded in 1976 and represents the entirety of steel production in the European Union. EUROFER members are steel companies and national steel federations throughout the EU. The major steel companies and national steel federations in Switzerland and Turkey are associate members.</p> <p>The European steel industry is a world leader in innovation and environmental sustainability. It has a turnover of around €170 billion and directly employs 320,000 highly-skilled people, producing on average 170 million tons of steel per year.</p> <p>More than 500 steel production sites across 22 EU Member States provide direct and indirect employment to millions more European citizens. Closely integrated with Europe's manufacturing and construction industries, steel is the backbone for development, growth and employment in Europe.</p>	




# EUROPEAN STEEL ASSOCIATION

## Department of Environment







<b>Company</b>	<b>InOpSys</b>	
<b>Company's Location</b>	Mechelen, Belgium	
<b>Appointment Location</b>	World Steel Association Headquarter	
<b>Field of Activity</b>	<p>InOpSys manages non-recyclable process streams by recovering water, raw materials and valuable components through an InOpSys operated on-site solution.</p> <p>They focus primarily on (bio) pharmaceutical and (fine) chemical industry because they work with the most demanding standards on safety, quality and sustainability which they are able to match through our in-house expertise.</p> <p>The technologies s that InOpsys provides:</p> <ul style="list-style-type: none"> <li>Advanced Oxidation Processes (AOP) can be used to treat toxic, non-biodegradable wastewater and/or persistent components in wastewaters. Suitable target molecules: Amines, Pesticides, organic complexed metals, Active Pharmaceutical Ingredients (API's), colorants,...</li> <li>Membrane Technology</li> <li>Microfiltration (MF)</li> <li>Ultrafiltration (UF)</li> <li>Nanofiltration (NF)</li> <li>Reverse osmosis (RO)</li> </ul>	



## Meeting with InOpsys

With the presence of Mr. Steven de Laet, CEO



<b>Company</b>	<b>Advanced Industrial Sensors (AdvIS)</b>	
<b>Company's Location</b>	Cortil-Noirmont, Belgium	
<b>Appointment Location</b>	World Steel Association Headquarter	
<b>Field of Activity</b>	<p>AdvIS is a specialized manufacturer of on-line contactless measuring gauges for the steel and other metals industries.</p> <p>They use the most adapted technologies for each specific application, to match the highest requirements from their customers. They can supply gauges for the sinter plant, customized flatness measuring systems for cold and hot strips, gauges to check the status of the working rolls or surface defects detection gauges for long products (bars and rods), to name a few.</p> <p>The people skills at AdvIS result from more than 75 years of thorough experience in the field of gauge design and on-site successful implementation around the world.</p> <p>For steel applications, AdvIS has developed privileged relationships with the most renowned Research Centres, to continuously improve the proposed gauges and to develop new solutions for the evolving market needs.</p>	





## Meeting with Advis

With the presence of Mr. Noël Melardy, General Manager