

KicMPi

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KiK | MPI

Kennis- en innovatiecentrum
Maintenance Procesindustrie



KiK | MPI

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13:30 -15:00: Presentations

- The importance of practical research, testing and demonstrating innovations - Jeroen Tacq and Joey Bosmans, Sirris
- How in-the-field measurement of coating performance leads to cost reduction - Tje Wei Hu, C-Cube
- The use of drones for faster and more cost-efficient inspection - TerraDrones

14:20 – 14:50: Break

- Innovations in corrosion inspection - Dekra
- Condition monitoring of claddings; the basis of QA/QC on CUI - Stork

15:30 – 16u30: Table top exhibition & lab visit (2 groups in parallel)

Demos:

- C-Cube coating monitoring and inspection
- Grindosonic
- TerraDrones
- Hyperspectraal cameras for coating inspection
- MetroOhm
- TestLABS

15:45: Closing reception and networking



Visitor network
T0gether@Sirris



Zero

capital letter

CorrosionLABS – Open Lab Day

The importance of Applied Research, Testing and Demonstrating Innovations
Het belang van praktijkonderzoek, testen en demonstreren van innovaties

Jeroen Tacq and Joey Bosmans, Sirris

Corrosion LABS

- Large concentration of industry in border region Flanders – Netherlands
- Corrosion is a major problem: safety, environment, production losses, loss of reputation → High Costs
- Tackling corrosion requires:
 - Test facilities, Anchoring of knowledge
 - Increased innovation and cooperation



Goals

- ✓ Platform for industry oriented R&D and testing
- ✓ Realistic test environments to develop and demonstrate Corrosion Management Solutions
- ✓ Improved education



Simulated industrial environment



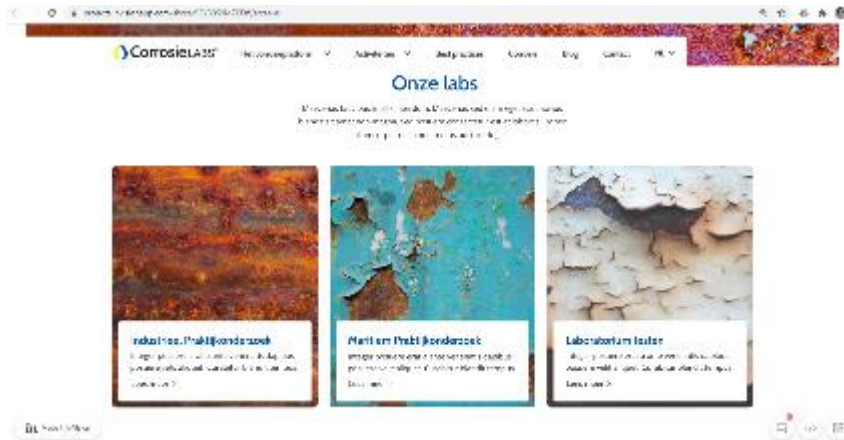
Laboratory testing



Maritime environment

Strengthen the network in the BeNeLux

www.corrosielabs.com



KAEFER



**WORLD CLASS
MAINTENANCE**



ZEELAND REFINERY

The importance of Applied Research, Testing and Demonstrating Innovations

- ✓ Stay ahead, but don't take unnecessary financial or safety risks
- ✓ Improved understanding of performance and capabilities of innovations

Innovation project

Simulated industrial environment

- More controlled testing, but still very realistic
- Limited acceleration
- Not standardised



Field Trials

- The real deal
- Slow process
- Difficult to interpret and compare solutions

Laboratory testing

- Strongly accelerated
- Compare potential solutions
- Not easy to link to 'real' performance
- Standardised



Corrosion @Sirris

SOCORRO project goes for smart management of corrosion

July 6, 2020



SOCORRO

In any kind of industry where water meets steel, corrosion is an underestimated threat - and a very expensive one too. Corrosion costs for the European region alone amount to 500 billion euro, according to a DNV-GL report. However, there is no generally accepted approach which is followed in the industry to assess the risk of corrosion and use this for smart corrosion management.

It is believed that up to 1/3 of all costs related to corrosion prevention and maintenance can be avoided by a smarter, more efficient system to manage the corrosion problem. Creating such a Smart Corrosion Management system is the goal of the recently started [SOCORRO project](#) in which Sirris is one of the key partners.



driving industry by technology

Jeroen Tooten - You
Dit is een Corrosie Doelgroep van LinkedIn en LinkedIn Live
7m 10s

#corrosiepreventie #CorrosieLAB #Sirris #Interreg
Praktische details en informatie van corrosie zijn belangrijke onderwerpen die van ons komen binnen het Interreg programma. #CorrosieLAB ... See more

Corrosie voorkomen veel goedkoper dan genezen | Maintenance Magazine
maintenance.magazine.nl Time read

CORROSION MANAGEMENT

Duurzame oplossingen voor corrosie management

Corrosie is een vaak onderkend probleem in elke sector: van het water in contact met het metaal, zoals in de maritieme wereld, offshore constructies, havenindustrie, waterleidingssystemen, staalconstructies... Onder specifieke omstandigheden krijgen installaties het risico te verslechteren en kan corrosie optreden. De kosten zijn niet alleen economisch, maar ook milieueconomisch. In een rapport van DNV-GL wordt de algemene kosten die kunnen worden toegewezen aan corrosie geschat op 28 procent van het Europese BIP of ruwweg 500 miljard euro. Om het tot een derde van de huidige waarde te krijgen, zou het noodzakelijk zijn om de kosten van corrosie te halveren. Dit kan worden bereikt door de juiste informatie, kennis, goede beslissingen, preventie, detectie, zowel op een individueel als een regionaal niveau. Een voorlopig advies, juist gebruik van materialen en coatings, en het door de klant gevoeld risico gebaseerd onderhoudsplan kunnen bijdragen tot het juiste resultaat.

Sirris is betrokken in verschillende onderzoeken en onderzoeksprojecten met deze topic.

Webinar - 'Corrosion of 3D printed components'



Is your company using 3D-printed components or do you want to start using them? This webinar will inform you about the specific corrosion issues that can occur with 3D printed components. The possibility to participate in a collective research project on this issue will be presented.

When: Wed, 27/04/2021 - 11:00 to 12:00

Where: [MIRA](#) online

Price: Participation in this webinar is free, but registration is mandatory.

CONTACT OUR EXPERT



Jeroen Tooten
Senior Engineer Metals

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Ben Teerlinck
Program Manager Metals

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RELATED CASE



Perfomand berekend Impact van corrosie op de levensduur van windturbines

Challenges

- Corrosive degradation process is complex
- Not one case is the same
- Background information is often lacking
 - Process
 - Environment
 - Use
- Customers seek for fast and clear solutions
- Lab testing versus real life

Qualification testing: case Cowboy



- Evaluation of product quality
- Evaluation of degradation mechanism and failure models
- Comparative testing

GOAL:

- Product control
- Product improvement
- Marketing (quality label)

Qualification testing: case Rockfon



- Evaluation of product quality
- Different part designs
- Different treatments
- Swimming pool environment?

GOAL:

- Product control
- Product improvement
- New update EN norm

Failure analysis

- Route cause analysis
 - Chemical analysis
 - Microscopic evaluation
- Simulation testing
- Mechanical component testing

GOAL:

- Understanding failure mechanism
- Seek for solutions
- Advise on material use, part design, coating,...

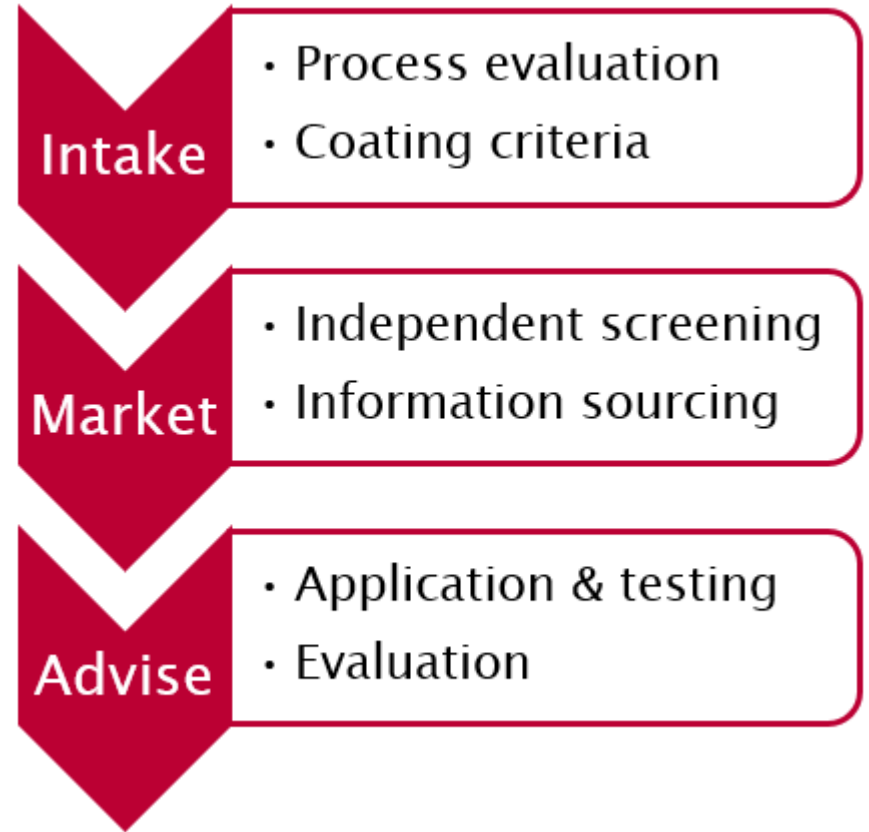


Anti-corrosion solutions

- Critical market overview
- Best coating system for the job

GOAL:

- Offer independent advise on anti-corrosion coatings
- Technical support



Corrosion monitoring and inspection



Data and AI drive a mindset change in Corrosion Management

- Evaluate sensing and inspection techniques.
- Risk monitoring based on data and Artificial intelligence (AI).
- Modelling combining lab data and results from field testing.
- Sirris is a partner in many research projects.



Corrosion LABS



Open Lab Day Scalda

29 November 2022

www.corrosielabs.com



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Materials Engineer and corrosion expert



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