# COMET Centre (K1)

## CEST

**CEST Competence Centre for Electrochemical Surface Technology**

<table>
<thead>
<tr>
<th>Main location</th>
<th>Wiener Neustadt, Lower Austria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other locations</td>
<td>Linz, Upper Austria</td>
</tr>
<tr>
<td>Research programme</td>
<td>Development of advanced materials by combinatorial electrochemistry, measures against materials degradation due to corrosion, development of novel electrochemical sensors, implementation of sustainable green surface technology, preparation and characterization of nano-catalysts for electrocatalytic and photoelectron catalytic applications.</td>
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</tbody>
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## Planned realisation and outcomes

- Cr(VI) replacement in electrochemical plating processes
- Electrochemical biomimetic sensor for toxic contaminants in food, monitoring of seawater and medical applications
- High performance metal coatings on carbon composites for application in aircraft and satellites
- Advanced corrosion protection measures by elucidating corrosion mechanisms
- Optimized copper layers on silicon wafers for semi-conductor applications

## History of establishment

CEST was founded in 2008 as successor to K+Centre ECHEM established in 2000.

## Selected company partners (max. 10)

1. Böhler Edelstahl GmbH & Co KG
2. Collini Gesellschaft m.b.H
3. DELTA BLOC International
4. Doka GmbH
5. Fischer Edelstahlrohre Austria GmbH
6. Glanzstoff Managmenent GmbH
7. JCT Analystechnik GmbH
8. Rembrandtin Lack GmbH Nfg. KG
9. voestalpine Wire Austria GmbH
10. voestalpine Stahl GmbH

## Selected scientific partners (max. 5)

1. AC²T Research GmbH
2. AIT Austrian Institute of Technology GmbH
3. Bulgarian Academy of Sciences
4. Johannes Kepler University Linz
5. Vienna University of Technology

## Selected international partners (max. 5)

1. Liebherr Toulouse, France
2. Infineon Technologies AG/ATV SC, Germany
3. Klüber Lubrication München SE & CoKG, Germany
4. Schleifring und Apparatebau GmbH, Germany
5. Umicore Galvanotechnik GmbH, Germany

## Duration of the COMET Centre

01/2015 – 12/2022 (8 years)

## Staff employed at the Centre

38,5 FTE (thereof 32,3 scientists) - 2020

## Total costs

1st Funding period: EUR 19,38 Mio (4 years)
2nd Funding period: EUR 20,4 Mio (4 years)

## Management of the Centre

Mag. (FH) Alexander Balatka, CFO, Managing Director
Priv. Doz. Prof. (FH) DI Dr. Christoph Kleber, CSO, Scientific Director

## Contact:

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*1 Partners with headquarters outside Austria*