

## COMET CENTRE (K1)

### CEST KOMPETENZZENTRUM FÜR ELEKTROCHEMISCHE OBERFLÄCHENTECHNOLOGIE GMBH

RESEARCH PROGRAMME: COMET – COMPETENCE CENTERS FOR EXCELLENT  
TECHNOLOGIES

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**Logo:**



**Main location:**

Wiener Neustadt (Niederösterreich)

**Other locations:**

Linz (Oberösterreich), Tulln (Niederösterreich), Wien (Wien)

**Thematic area:**

Energy & Environment; Mobility, Material & Production

<https://www.ffg.at/comet/netzwerk>

**Thematic focuses:**

- 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

**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 EICHEM established in 2000.

## COMET-FACTSHEET

### Selected company partners (max. 10):

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

### Selected scientific partners (max. 5):

1. AIT Austrian Institute of Technology GmbH
2. Bulgarian Academy of Sciences
3. Johannes-Kepler-Universität Linz
4. Technische Universität Wien
5. Universität Wien

### Selected international<sup>1</sup> partners (max. 5):

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

<b>Duration:</b>	01.01.2015 bis 31.12.2022 (8 years)
<b>Staff employed at the Centre:</b>	45,32 FTE, thereof 35,16 scientists
<b>Management:</b>	Mag. (FH) Alexander Balatka, Managing Director Univ.Prof. Dipl.-Ing. Dr. techn. Markus Valtiner, Scientific Director
<b>Contact:</b>	CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH  Viktor-Kaplan-Straße 2  02622 222 66, office@cest.at  <a href="http://www.cest.at">www.cest.at</a>

Status 30.07.2021

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<sup>1</sup> Partners with headquarters outside Austria

## COMET-FACTSHEET

The COMET Centre is funded within COMET – Competence Centers for Excellent Technologies – by BMK, BMDW as well as the co-financing federal provinces [lower austria, upper austria]. The COMET programme is managed by FFG. [www.ffg.at/comet](http://www.ffg.at/comet)