## CEST

### Centre of Electrochemical Surface Technology

#### K1 CEST

<table>
<thead>
<tr>
<th>Main location</th>
<th>Wr. Neustadt, Viktor Kaplan Str. 2</th>
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<tbody>
<tr>
<td>Other locations</td>
<td>Vienna, Graz</td>
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<td>Research programme</td>
<td>Research is focussed on the topics “Chromium(VI)-free corrosion protection”, “Functional layers”, “Electrodeposition/dissolution in non-aqueous electrolytes” and “Electrochemical in-situ methods”.</td>
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### Planned realisation and outcomes

Scientific work is organized in the areas: electrodeposition and dissolution, corrosion, process and process control, modelling and simulation, surface analytics and electrochemical in situ techniques. Based on a fundamental understanding of electrochemical processes and supported by modelling and simulation techniques, electrochemical production parameters are correlated to the resulting surface properties such as e.g. corrosion resistance, wear behaviour or more specific functionalities. The processes are optimized in terms of efficiency and environmental friendliness.

### History of establishment

CEST was founded in 2008 as successor of the K+ Centre ECHEM established in 2000 and has 63 co-workers.

### Selected company partners (max. 10)

1. Andritz AG
2. Banner GmbH
3. Collini Holding AG
4. MIBA Gleitlager GmbH
5. EADS Deutschland GmbH
6. Henkel AG & Co. KGaA
7. Fronius International GmbH
8. Infineon Technologies Austria AG
9. Maschinenfabrik KBA Mödling AG
10. voestalpine Stahl GmbH

### Selected scientific partners (max. 5)

1. Vienna University of Technology
2. Graz University of Technology
3. University of Vienna
4. Austrian Institute of Technology
5. University of Bern

### Selected international partners (max. 5)

1. EADS
2. Atotech Deutschland GmbH
3. AkzoNobel
4. Vrije Universiteit Brussel
5. University of Southampton

### Start Date

01.01.2008

### Planned number of personnel

54,5 (FTE) thereof researcher 42,6

### Total costs

EUR 22.502.957,00

### Leader of consortium:

CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH

### Contact:

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1 Partners with headquarters outside Austria
2 First funding period: K1-Centres: 4 years, K2-Centers: 5 years;