



The European Federation of Chemical Engineering,  
its EFCE Working Party on Process Intensification and the sponsor Microinnova

are pleased to present the

## EFCE Excellence Award in Process Intensification 2019

to

### DR. ANDY N. ANTZARA

for his PhD thesis on "***Intensification of sorption enhanced steam methane reforming for high-purity hydrogen production***" for which he achieved the best evaluation results in terms of breadth and depth of the thesis, scientific impact including industrial relevance and potential for industrial applications, innovation and number of PI technologies researched, and dissemination of results.

Awarded on the occasion of the 2<sup>nd</sup> International Process Intensification Conference (IPIC2)  
Leuven, Belgium, May 2019

A handwritten signature in black ink, appearing to read "David Bogle".

**PROFESSOR DAVID BOGLE**  
EFCE SCIENTIFIC VICE-PRESIDENT

A handwritten signature in black ink, appearing to read "Tom Van Gerven".

**PROFESSOR TOM VAN GERVEN**  
WORKING PARTY CHAIRMAN