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Thursday, 23 February 2017

09:00 **Registration**

10:00 **Welcome Address**
G. Sextl[1], [1] Fraunhofer-Institut für Silicatforschung – ISC, Würzburg/D

MATERIALS FOR FUEL-CELL TECHNOLOGY

Chair: W. Mueller, Umicore AG & Co. KG, Hanau/D

10:10 **PLENARY LECTURE** — 13
Electromobility – Batteries or fuel cells?
H. Gasteiger[1]; [1] TU München, Garching/D

10:55 **Daimler fuel cell activities – From materials research to vehicle launch** — 14
C. Mohrdieck[1]; G. Frank[1]; [1] Daimler AG, Kirchheim/D

11:25 **Nanostructured catalyst materials for PEM fuel cells** — 15
P. Strasser[1]; [1] Technische Universität Berlin/D

11:55 **Pt on carbon black electro catalysts – A view from industrial perspective** — 16
D. Herein[1]; [1] UMICORE AG & Co. KG, Hanau/D

12:25 Lunch Break and Poster Viewing

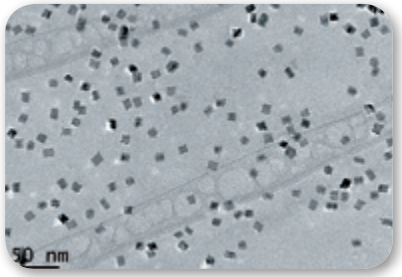
MATERIALS FOR FUEL-CELL TECHNOLOGY

Chair: F. Menzel, Evonik Industries AG, Hanau/D

13:25 **Mesostructured cobalt oxides based materials for oxygen evolution reaction** — 17
H. Tüysüz[1]; X. Deng[1]; [1] MPI für Kohlenforschung, Mülheim an der Ruhr/D

13:50 **Field-assisted sintering of nanostructured $La_xSr_{1-x}TiO_3$ as potential anode material for solid oxide fuel cells** — 18
B. Kayaalp[1]; K. Klauke[1]; A. Iannaci[2]; V. Sglavo[2]; S. Mascotto[1]; [1] University of Hamburg/D; [2] University of Trento/I

14:15 Coffee Break and Poster Viewing



Picture source (left to right): A. Karpov, BASF SE, Ludwigshafen/D; R. Busch, Universität des Saarlandes, Saarbrücken/D

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Thursday, 23 February 2017

HETEROGENEOUS CATALYSTS FREE OF PRECIOUS METALS I

Chair: K. Schierle-Arndt, BASF SE, Ludwigshafen/D

14:30 **Strategies to reduce precious group metal loading in emission control catalysts** — 19
A. Karpov[1]; K. Wassermann[2]; P. Tran[2]; S. Choi[3], Y. Xia[3]; [1] BASF SE, Ludwigshafen/D; [2] BASF Corporation, Iselin, NJ/USA; [3] Georgia Institute of Technology, Atlanta, GA/USA

15:00 **New strategy for synthesis of supported Cu-Fe nanoparticles via single-source precursor method** — 20
S. Linke[1]; J. Bauer[1]; X. Huang[2]; R. Naumann d'Alnoncourt[1]; M. Driess[1]; F. Rosowski[3]; [1] BasCat - UniCat BASF JointLab, Technische Universität Berlin, Berlin/D; [2] Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D; [3] BASF SE, Process Research and Chemical Engineering, Ludwigshafen/D

15:25 **APPtec – a new generation of spray pyrolysis technology to produce advanced catalysts** — 21
L. Leidolph[1]; T. Jähnert[1]; [1] Glatt Ingenieurtechnik GmbH, Weimar/D

15:50 Coffee Break and Poster Viewing

GLASS AS INNOVATIVE MATERIAL FOR HIGH-TECH APPLICATIONS

Chairs: G. Sextl, Fraunhofer-Institut für Silicatforschung – ISC, Würzburg/D
D. Scheschkewitz, Universität des Saarlandes, Saarbrücken/D

16:20 **Perspective on ultrahigh performance solid-liquid catalysis with silica and glass based monoliths** — 22
U. Tallarek[1]; [1] Universität Marburg/D

16:55 **Purity and precision – Novel fused silica applications** — 23
A. Hofmann[1]; [1] Heraeus Quarzglas GmbH & Co KG, Kleinostheim/D

17:25 **Bulk metallic glass: A new engineering material** — 24
R. Busch[1]; [1] Universität des Saarlandes, Saarbrücken/D

SPECIAL LECTURE

Chair: G. Sextl, Fraunhofer-Institut für Silicatforschung – ISC, Würzburg/D

17:55 **Nanomaterials hoax scientists: Nanosafety research on the right track?** — 25
H. Krug[1]; [1] Empa - Swiss Federal Laboratories for Materials Science and Technology, St. Gallen/CH

18:25 **POSTER PARTY**

20:30 End of the first day

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Friday, 24 February 2017

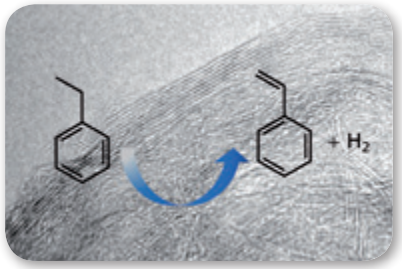
HETEROGENEOUS CATALYSTS FREE OF PRECIOUS METALS II

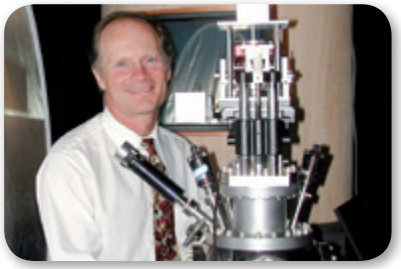
Chair: B. Albert; TU Darmstadt/D

MODERN METHODS IN CHEMICAL ANALYSIS

Chair: M. Fröba; Universität Hamburg/D

Chair: G. Sextl, Fraunhofer-Institut für Silicatforschung – ISC, Würzburg/D





Picture source (left to right): B.J.M. Etzold, TU Darmstadt/D; D. Miller, MPI for the Structure and Dynamics of Matter, Hamburg/D

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MATERIALS FOR FUEL-CELL TECHNOLOGY

HETEROGENEOUS CATALYSTS FREE OF PRECIOUS METALS

Lecture Abstracts