

European Union – USA Engineering Ceramics Summit

Monday, January 23, 2012

EU/USA Summit I

1:30 PM-3:20 PM

Room: Coquina Salon F

Session Chair(s): Sanjay Mathur

1:30 PM

(ICACC-EUUSA-001-2012) Porous Wall, Hollow Glass Microspheres (Invited)

George Wicks*, Savannah River National Lab, USA

2:00 PM

(ICACC-EUUSA-002-2012) New ceramic membranes for energy- and environmental applications (Invited)

Alexander Michaelis*, Ingolf Voigt, Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Germany

2:30 PM

(ICACC-EUUSA-003-2012) Next Generation Microturbine with Ceramic Hot-Section (Invited)

James Kesseli*, Thomas Wolf, James Nash, Brayton Energy, USA

3:00 PM

Break

EU/USA Summit II

3:20 PM-5:50 PM

Room: Coquina Salon F

Session Chair(s): Mrityunjay Singh

3:20 PM

(ICACC-EUUSA-004-2012) Advances in Ceramic Membranes for H₂/Syngas Production and Clean Energy Applications (Invited)

Jack C. Chen*, Dale M Taylor, Michael F Carolan, Ceramtec, Inc., USA; David W Studer, Air Products and Chemicals, Inc., USA

3:50 PM

(ICACC-EUUSA-005-2012) Polymer-Derived-Ceramics Research and Development in Europe (Invited)

Paolo Colombo*, University of Padova, Italy

4:20 PM

(ICACC-EUUSA-006-2012) Innovations in bioactive ceramics and glasses for tissue engineering, drug delivery and regenerative medicine (Invited)

Aldo Boccaccini*, University of Erlangen-Nuremberg, Germany

4:50 PM

(ICACC-EUUSA-007-2012) Silica Mesoporous Particles in Nanomedicine: State of the Art (Invited)

Alfonso Garcia-Bennett*, Uppsala University, Sweden

5:20 PM

(ICACC-EUUSA-008-2012) Nonhydrolytic Sol-Gel Reactions for the Synthesis of Oxide Materials (Invited)

Jiri Pinkas*, Masaryk University, Czech Republic

Tuesday, January 24, 2012

EU/USA Summit III

8:00 AM-9:50 AM

Room: Coquina Salon F

Session Chair(s): Mrityunjay Singh

8:00 AM

(ICACC-EUUSA-009-2012) Ceramic Matrix Composite Turbine Vane for Rotorcraft Engines (Invited)

Michael C Halbig*, NASA Glenn Research Center, USA

8:30 AM

(ICACC-EUUSA-010-2012) Status of Carbon/Ceramic Brakes: Properties, Production and Perspectives (Invited)

Walter Krenkel*, University of Bayreuth, Germany; Ralph Renz, Porsche AG, Germany

9:00 AM

(ICACC-EUUSA-011-2012) Recent developments in joining issues and ceramic matrix composites (Invited)

Monica Ferraris*, Politecnico di Torino, Italy

9:30 AM

Break

EU/USA Summit IV

9:50 AM-11:50 AM

Room: Coquina Salon F

Session Chair(s): Sanjay Mathur

9:50 AM

(ICACC-EUUSA-012-2012) Synthesis of silicon-carbon nanoceramics in high temperature aerosol reactor (Invited)

Anna Lahde*, University of Eastern Finland, Finland

10:20 AM

(ICACC-EUUSA-013-2012) The State of Ceramics Research at Corning (Invited)

Christine Heckle*, Corning Incorporated, USA

10:50 AM

(ICACC-EUUSA-014-2012) Inorganic Nanofibers via Electrospinning - on the Road to Industrial Application (Invited)

Kerstin Schierle-Arndt*, F. Major, E. Klimov, M. Gärtner, BASF SE, Germany

11:20 AM

(ICACC-EUUSA-015-2012) Strategic Initiative Materials (SIM): Joint materials research between Flemish research institutes and industry (Invited)

Marlies K. Van Bael*, An Hardy, Hasselt University, Belgium

EU/USA Summit V

1:30 PM-3:20 PM

Room: Coquina Salon F

Session Chair(s): Alexander Michaelis

1:30 PM

(ICACC-EUUSA-016-2012) Solar Hydrogen Production with Disorder-Engineered Titania (Invited)

Samuel Mao*, EETD Advanced Energy Technologies, USA

2:00 PM

(ICACC-EUUSA-017-2012) Challenges for Ceramic Materials in Breakthrough Energy Applications (Invited)

Klemens Joachim*, Deutsche Gesellschaft für Materialkunde e.V. (DGM), Germany

2:30 PM

(ICACC-EUUSA-018-2012) New approaches for silicon in three valuable energy management applications (Invited)

John Carberry*, Mossey Creek Energy, USA

3:00 PM

Break

EU/USA Summit VI

3:20 PM-5:50 PM

Room: Coquina Salon F

Session Chair(s): Walter Krenkel

3:20 PM

(ICACC-EUUSA-019-2012) Status of PVD Technology in Poland (Invited)

Witold Gulbinski*, Koszalin University of Technology, Poland

3:50 PM

(ICACC-EUUSA-020-2012) Miniaturized Surface Ionization Gas Sensors (Invited)

Gerhard Mueller*, Angelika Hackner, Sebastian Beer, EADS Innovation Works, Germany; Francisco Ramirez-Hernandez, Institut de Recerca en Energia de Catalunya (IREC), Spain; J. Daniel Prades, Universitat de Barcelona, Spain; Juan R Morante, Institut de Recerca en Energia de Catalunya (IREC), Spain; Sanjay Mathur, University of Cologne, Germany

4:20 PM

(ICACC-EUUSA-021-2012) Plasma technologies for energetics and sensing: towards the metal oxide highway via the nano-road (Invited)

Davide Barreca*, Padova University, Italy

4:50 PM

(ICACC-EUUSA-022-2012) Importance of Precursor Chemistry in Atomic Layer Deposition (Invited)

Markku Leskela*, University of Helsinki, Finland

5:20 PM

(ICACC-EUUSA-023-2012) Bio-inspired

Ceramic Composites for Engineering Applications (Invited)

Julian Martinez-Fernandez*, Joaquin Ramirez-Rico, Francisco M Varela-Feria, Carmen Vera-García, Antonio Gutierrez-Pardo, University of Seville-CSIC, Spain; Mrityunjay Singh, Ohio Aerospace Institute, NASA Glenn Research Center, USA