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Electrophoretic Deposition VI: Fundamentals and Applications

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Conference Program

Aldo R. Boccaccini

Department of Materials Science and Engineering University of Erlangen-Nuremberg, Germany

Omer Van der Biest

Department of Metallurgy and Materials Engineering Katholieke Universiteit Leuven, Belgium

James Dickerson

Center of Functional Nanomaterials Brookhaven National Laboratory, USA

Tetsuo Uchikoshi

National Institute for Materials Science, Japan

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Program

6th International Conference on Electrophoretic Deposition: Fundamentals and Applications

October 1 - 6, 2017 Gyeongju, South Korea

Conference Chair

Prof. Aldo R. Boccaccini

Department of Materials Science and Engineering University of Erlangen-Nuremberg, Germany

Conference Co-Chairs

Prof. Omer Van der Biest

Department of Metallurgy and Materials Engineering Katholieke Universiteit Leuven, Belgium

Prof. James Dickerson

Center of Functional Nanomaterials Brookhaven National Laboratory, USA

Dr. Tetsuo Uchikoshi

National Institute for Materials Science, Japan





Engineering Conference International 32 Broadway, Suite 314 - New York, NY 10004, USA Phone: 1 - 212 - 514 - 6760, Fax: 1 - 212 - 514 - 6030 www.engconfintl.org - info@engconfintl.org

Hotel Hyudai Gyeongju 338, Bomun-ro, Gyeongju-si, Gyeongsangbuk-do Korea

Telephone: +82-54-748-2233

http://www.hyundaihotel.com

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Prof. J. B. Talbot, University of Califorinia, San Diego

Previous conferences in this series

International Conference on Electrophoretic Deposition: Fundamentals and Applications August 18-22, 2002

Banff, Alberta, Canada

Conference Chairs:

Aldo R. Boccaccini, Imperial College of Science, London, UK P.S. Nicholson, McMaster University, Canada Omer Van der Biest, Katholieke Unviersiteit Leuven, Belgium

2nd International Conference on Electrophoretic Deposition: Fundamentals and Applications May 29-June 2, 2005 Barga, Italy

Conference Chairs:

Aldo R. Boccaccini, Imperial College of Science, London, UK Omer Van der Biest, Katholieke Unviersiteit Leuven, Belgium Rolf Clasen, University of Saarland, Saarbrucken, Germany

3rd International Conference on Electrophoretic Deposition: Fundamentals and Applications

October 5-9, 2008

Awaji Island, Japan

Conference Chairs:

Aldo R. Boccaccini, Imperial College of Science, London, UK Omer Van der Biest, Katholieke Unviersiteit Leuven, Belgium Rolf Clasen, University of Saarland, Saarbrucken, Germany T. Uchikoshi, National Institute of Materials Science, Tsukuba, Japan

4th International Conference on Electrophoretic Deposition: Fundamentals and Applications Oct. 2-7, 2011

Puerto Vallarta, Mexico

Conference Chairs:

Aldo R. Boccaccini, Imperial College of Science, London, UK Omer Van der Biest, Katholieke Unviersiteit Leuven, Belgium Rolf Clasen, University of Saarland, Saarbrucken, Germany James Dickerson, Vanderbilt University, USA

5th International Conference on Electrophoretic Deposition: Fundamentals and Applications October 5-10, 2014

October 5-10, 2014 Hernstein, Austria

Conference Chairs:

Aldo R. Boccaccini, Imperial College of Science, London, UK Omer Van der Biest, Katholieke Unviersiteit Leuven, Belgium T. Uchikoshi, National Institute of Materials Science, Tsukuba, Japan James Dickerson, Vanderbilt University, USA



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Sunday, October 1, 2017

17:00 – 18:00	Conference Check-in (Diamond Lobby)
18:00 – 18:30	Welcome Reception (Diamond Lobby)
18:30 – 20:00	Dinner (Sara Restaurant/Coffee shop – Lobby Level)

<u>Notes</u>

- Technical sessions will be in the Diamond Hall.
- Poster Sessions will be in the Crystal Hall.
- Breakfasts and lunches will be in the Topaz Restaurant (breakfast hours from 7 am to 10 am).
- Dinners on Monday, Tuesday and Wednesday will be in the Topaz Restaurant.
- Audio, still photo and video recording by any device (e.g., cameras, cell phones, laptops, PDAs, watches) is strictly prohibited during the technical sessions, unless prior permission has been granted by the author and ECI.
- Speakers Please have your presentation loaded onto the conference computer prior to the session start (preferably the day before).
- Speakers Please leave at least 3-5 minutes for questions and discussion.
- Please do not smoke at any conference functions.
- Turn your mobile telephones to vibrate or off during technical sessions.
- Please write your name on your program so that it can be returned to you if lost or misplaced.
- After the conference, ECI will send an updated participant list to all participants. Please check your listing now and if it needs updating, you may correct it at any time by logging into your ECI account.

About Gyeongju

Gyeongju is Korea's ancient cultural city, the capital of the once great Silla Kingdom (BC 57~AD 935). It is located approximately 350 km southeast of Seoul. When the Silla Kingdom reached the peak of its development, Gyeongju was estimated to have one million residents – four times its current size. UNESCO designated it both as one of ten World Heritage sites in Korea and as one of the world's ten most important ancient cultural cities, both for its position in the historical and cultural development of East Asia and for its role in the formation of the Korean nation. Because of the vast number of archeological sites and cultural properties that remain in this city, Gyeongju is often referred to as "the museum without walls". It is the main destination in South Korea for visitors interested in the cultural heritage of Silla and the architecture of the Joseon Dynasty.

Monday, October 2, 2017

07:30 - 08:30	Breakfast buffet
08:30 - 08:45	Conference Introduction by Conference Chair and Co-Chairs, ECI Liaison
	SESSION I: FUNDAMENTALS OF EPD PROCESS AND MODELLING Session chair: Aldo R. Boccaccini
08:45 – 09:15	Keynote MODELING APPROACHES IN ELECTROPHORETIC DEPOSITION Brian Giera, Lawrence Livermore National Laboratory, USA
09:15 – 09:45	INSIGHT INTO NANOPARTICLE CHARGING MECHANISM IN NONPOLAR SOLVENTS TO CONTROL THE FORMATION OF PT NANOPARTICLE MONOLAYERS BY ELECTROPHORETIC DEPOSITION Ondřej Černohorský, Institute of Photonics and Electronics, AS CR, Czech Republic
09:45 – 10:15	DYNAMIC MESOSCALE MODEL OF REVERSIBLE ELECTROPHORETIC DEPOSITION Brian Giera, Lawrence Livermore National Laboratory, USA
10:15 – 11.00	Coffee Break
	SESSION II: COATINGS Session chair: Stephan Barcikowski
11:00 – 11:20	STRUCTURAL COLOR COATING FILMS COMPOSED OF AN AMORPHOUS ARRAY OF SILICA AND CARBON BLACK PARTICLES BY ELECTROPHORETIC DEPOSITION, Kiyofumi Katagiri, Hiroshima University, Japan
11:20 – 11:40	INVESTIGATION OF MULTI-STAGE DEPOSITION TECHNIQUES OF INDUSTRIAL EPD PAINT FOR HIGH FILM THICKNESS AND MULTI-LAYER APPLICATIONS. Peter Hope, LVH Coatings Ltd, United Kingdom
11:40 – 12:00	SYNTHESIS AND CHARACTERIZATION OF NANOCOMPOSITES COATING BASED ON INORGANIC OCTAHEDRAL CLUSTER UNITS FABRICATED BY ELECTROPHORETIC DEPOSITION PROCESS. Fabien Grasset, CNRS, France
12:00 – 14:00	Lunch
14:00 – 17:30	Ad hoc sessions and/or free time
17:30 – 18:00	Afternoon Coffee
18.00 – 19.30	SESSION III: POSTER SESSION I and Social Hour
19:50 – 21:00	Dinner

Tuesday, October 3, 2017

07:30 – 08:30	Breakfast buffet
	SESSION IV: NOVEL EXPERIMENTAL TECHNIQUES Session chair: Jay Dickerson
08:30 – 09:00	Keynote STRUCTURING OF ELECTRODE SURFACES WITH LIGAND-FREE NANOPARTICLES VIA ELECTROPHORETIC DEPOSITION- FUNDAMENTALS AND IN VIVO APPLICATIONS Stephan Barcikowski, University of Duisburg-Essen, Germany
09:00 – 09:20	FABRICATION OF POROUS, CRYSTALLINE-ORIENTED TITANIA LAYER ON TRANSPARENT ELECTRODE BY MAGNETIC FIELD-ASSISTED EPD Tetsuo Uchikoshi National Institute for Materials Science, Japan
09:20 – 09:40	ELECTROPHORETIC DEPOSITION OF B ₄ C/AL CERMETS IN A 3D GEOMETRY WITH GREATER CURVATURE FOR APPLICATIONS IN ARMOR SYSTEMS. Andrew Pascall, Lawrence Livermore National Laboratory, USA
09:40 — 10:00	EFFECT OF ELECTROOSMOTIC FLOW ON THE ELECTROPHORETIC DEPOSITION OF ZEOLITE POWDER ON A POROUS ALUMINA SUPPORT Hideyuki Negishi, National Institute of Advanced Industrial Science and Technology (AIST), Japan
10:00 – 10:20	FABRICATION AND CHARACTERIZATION OF TITANIA-NANOSHEET FILM BY ELECTROPHORETIC DEPOSITION TECHNIQUE Jun-ichi Hamagami, Kanto Gakuin University, Japan
10:20 – 10:40	UNDERSTANDING THE ORIGINS OF ELECTRICALLY TUNABLE STRUCTURAL COLOR IN AMORPHOUS COLLOIDAL CRYSTAL DEPOSITS Scott Bukosky, University of California, Davis, USA
10:40 – 11:00	Coffee Break
	SESSION V: CERAMICS AND FUNCTIONAL MATERIALS Session chair: Paula M. Vilarinho
11:00 – 11:30	Keynote APPLICATION OF ELECTROPHORETIC DEPOSITION FOR SOLID OXIDE FUEL CELL Motohide Matsuda, Kumamoto University, Japan
11:30 – 11:50	ELECTROPHORETIC DEPOSITION OF NANOPARTICLES FOR PHOTO-THERMAL SOLAR RECEPTORS Guillaume Toquer. ICSM, France
11:50 – 12:10	FORMATION OF CARBON INTERPHASE ON POLYCRYSTALLINE AND AMORPHOUS SIC FIBERS IN SIC/SIC COMPOSITES BY ELECTROPHORETIC DEPOSITION Katsumi Yoshida, Tokyo Tech, Japan
12:10 – 12:30	ENVIRONMENTALLY FRIENDLY PROCESSING OF LEAD FREE SODIUM POTASSIUM NIOBATE THICK FILMS BY ELECTROPHORETIC DEPOSITION Paula Vilarinho, University of Aveiro, Portugal
12:30 – 12:50	Discussion: Functional materials by EPD: progress and challenges

Tuesday, October 3, 2017 (continued)

	
13:00 – 14:30	Lunch
14:30 – 16:00	Ad hoc sessions and/or free time
16:00 – 16:30	Afternoon Coffee
16:30 – 19:30	SESSION VI: OMER VAN DER BIEST SYMPOSIUM Session Chair: Aldo R. Boccaccini and Tetsuo Uchikoshi
16:30 – 16:50	TAILORED MICROSTRUCTURE OF CERAMICS BY USING ELECTRIC AND MAGNETIC FIELDS Tohru S. Suzuki, National Institute for Materials Science- Japan
16:50 – 17.10	ELECTROPHORETIC DEPOSITION AS A METHOD FOR THE PREPARATION OF CERAMIC FUEL CELLS Christos Argirusis, National Technical University of Athens, Greece
17:10 - 17:30	THICK FILMS OF ELECTROCERAMICS BY ELECTROPHORETIC DEPOSITION: ON THE WAY TO DEVICES Paula Vilarinho, University of Aveiro, Portugal
17:30- 17:50	MICROPOROUS ORGANIC-INORGANIC NANOCOMPOSITE COATING ON STAINLESS STEEL VIA EPD FOR BIOMEDICAL APPLICATIONS Aldo R. Boccaccini, University of Erlangen-Nuremberg, Germany
17:50 – 18:10	NOVEL NANOSTRUCTURES GROWN BY ELECTROPHORETIC DEPOSITION USING SI SUBSTRATES WITH LOW RESISTIVITY Mónica Tirado, Universidad Nacional de Tucumán. Argentina
18:10 – 18:30	EFFECT OF SURFACE MODIFIERS ON THE NANOPARTICLES ELECTRO-DRIVEN ASSEMBLY Begoña Ferrari, Instituto de Cerámica y Vidrio, CSIC, Spain
18:30 – 18:50	AN OLD PROBLEM REVISITED: THE ELECTRIC CURRENT DURING CONSTANT VOLTAGE ELECTROPHORETIC DEPOSITION Luc Vandeperre, Imperial College London. United Kingdom
18:50 – 19:10	FUNDAMENTAL ASPECTS OF SOLVENT-SOLUTE INTERACTIONS IN ELECTRODEPOSITION AND ELECTROPHORETIC DEPOSITION Gregorio Vargas, CINVESTAV Unidad Saltillo, Mexico
19:10 – 19:30	RESEARCH ON ELECTROPHORETIC DEPOSITION IN HINDSIGHT AND FORESIGHT Omer Van der Biest, K U Leuven, Belgium
19:50 – 21:00	Dinner
21:00 – 22:00	Social Hour (Sara Restaurant/Coffee shop – Lobby Level)

Wednesday, October 4, 2017

07:30 - 08:30	Breakfast buffet
	SESSION VII: EPD OF BIOMATERIALS Session Chair: Gregorio Vargas
08:30 – 08:50	DEVELOPMENT OF A BIODEGRADABLE NATURAL POLYMER/CERAMIC COATING FOR MG ALLOYS USING ELECTROPHORETIC DEPOSITION Svenja Heise, Institute of Biomaterials, University of Erlangen-Nuremberg, Germany
08:50 – 09:10	BIO-TRIBOLOGICAL PROPERTIES AND MICROSTRUCTURE OF SEMICRYSTALLINE AL2O3/PEEK COATINGS ELECTROPHORETICALLY DEPOSITED ON THE TI-13NB-13ZR ALLOY Tomasz Moskalewicz, AGH University of Science and Technology, Poland
09:10 – 09:30	ELECTROPHORETIC DEPOSITION OF ZEIN/BIOGLASS COMPOSITES WITH INCORPORATION OF ESSENTIAL OILS Laura Ramos Rivera, Institute of Biomaterials, University of Erlangen-Nuremberg, Germany
09:30 – 09:50	EPD OF DOPED NANOSTRUCTURED VITREOUS SILICA COATINGS: PROCESSING, ANTIMICROBIAL BIOACTIVITY AND APPLICATIONS Guido Falk, Saarland University, Germany
09:50 – 10:10	ELECTROPHORETIC DEPOSITION OF HYDROXYAPATITE NANOPARTICLES FROM DIFFERENT ALCOHOLIC SUSPENSIONS: EFFECT OF TRIETHANOLAMINE Morteza Farrokhi-Rad, Azarbaijan Shahid Madani University, Iran
10:10 – 10:30	ELECTROPHORETIC DEPOSITION OF LAWSONE LOADED NANO BIOACTIVE GLASS/CHITOSAN COMPOSITE ON PEEK/BG LAYERS Muhammad Atiq Ur Rehman, University of Erlangen-Nuremberg, Germany
10:30 – 11:00	Coffee Break
11:00 – 12:30	SESSION VIII: Young Persons Poster/Presentation Contest (JECS TRUST SPONSORED) Session Chair: Begoña Ferrari
	Influence of substrate morphology on ZnO nanostructures grown by electrophoretic deposition Omar Alejandro Espindola, Universidad Nacional de Tucumán, Argentina
	In-situ USAXS/SAXS Investigation of Tunable Structural Color in Amorphous Photonic Crystals during Electrophoretic Deposition Scott Bukosky, University of California, Davis, USA
	In vitro characterization of a biodegradable chitosan/bioactive glass coating for Mg alloys Svenja Heise, University Erlangen-Nuremberg, Germany
	Antibacterial and bioactive coatings based on electrophoretic deposition of chitosan/bioactive glas/lawsone on PEEK/bioactive glass layers Muhammad Atiq Ur Rehman, University of Erlangen-Nuremberg, Germany
	Effect of surface modifiers on the nanoparticles electro-driven assembly Joaquin Luis Yus Domínguez, Institute of Ceramic and Glass, CSIC, Spain

Wednesday, October 4, 2017 (continued)

	Anisotropic a-Fe2O3/Chitosan nanocomposites by electrophoretic deposition Laura Ramos Rivera, University of Erlangen-Nuremberg, Germany
	Fabrication of Octahedral Tantalum Cluster Film by Electrophoretic Deposition Nguyen Thi Kim Ngan, Hokkaido University, Japan
12:30 – 14:00	Lunch
14:00 – 18:30	Optional excursion
19:50 – 21:00	Dinner
21:00 – 22:00	Social Hour (Sara Restaurant/Coffee shop – Lobby Level)

Thursday, October 5, 2017

07:30 - 08:30	Breakfast buffet
	SESSION XIX: NOVEL APPLICATIONS I Session chair: Omer van der Biest
08:30 – 09:00	Keynote EPD FOR COMPOSITE CATHODE LAYER IN ALL-SOLID-STATE LITHIUM ION BATTERY BASED ON SULFIDE ELECTROLYTE Atsunori Matsuda, Toyohashi University of Technology, Japan
09:00 – 09.20	ELECTRODEPOSITION OF BLACK OXIDE COATINGS ON ALUMINUM 6061 IN DEEP EUTECTIC SOLVENTS, FOR SOLAR THERMAL COLLECTION APPLICATIONS Gregorio Vargas, Cinvestav-Saltillo, Mexico
09:20 – 09:40	REDUCED GRAPHENE OXIDE HYDROGELS, DEPOSITED IN NICKEL FOAM BY ELECTROPHORETIC DEPOSITION, FOR SUPERCAPACITOR APPLICATIONS: TOWARD HIGH VOLUMETRIC CAPACITANCE James Dickerson, Brookhaven National Laboratory, United States of America
09:40 – 10:00	ELECTROPHORETIC DEPOSITION OF SNO ₂ NANOSTRUCTURED THICK FILMS FOR CO SENSING Paula Vilarinho, University of Aveiro, Portugal
10:00 – 10:20	Discussion: EPD in novel applications: progress and challenges
10:20 – 11:00	Coffee break
	SESSION XIII: NOVEL APPLICATIONS II Session Chair: Atsunori Matsuda
11:00 – 11:30	Keynote NANOTUBE/FIBER MULTI-SCALE HYBRID COMPOSITES USING ELECTROPHORETIC DEPOSITION: PROCESSING, CHARACTERIZATION, AND SMART SENSING APPLICATIONS Erik T. Thostenson, University of Delaware, USA
11.30- 11:50	FABRICATION OF SiCf/SiC-ZrB2 COMPOSITES BY A HYBRID PROCESS OF ALTERNATING CURRENT ELECTROPHORETIC DEPOSITION (AC-EPD) AND HOT PRESSING Kati Raju, Energy Materials Research Division, Korea Institute of Energy Research, South Korea
11:50 – 12:20	Keynote COLLOIDAL ADDITIVE MANUFACTURING USING PROJECTION BASED LIGHT DIRECTED ELECTROPHORETIC DEPOSITION Andrew Pascall, Lawrence Livermore National Laboratory, USA
12:20 – 14:00	Lunch
14:00 – 17:30	Ad hoc sessions and/or free time
17.30 – 19.00	SESSION XV: POSTER SESSION II and Social Hour
19:30 – 21:30	Conference Banquet (Emerald and Ruby Hall)

Friday, October 6, 2017

07:30 - 08:30	Breakfast buffet
	<u>SESSION XVI:</u> : EPD INTEGRATING MANUFACTURING TECHNOLOGY <u>Session chair</u> : Guido Falk
08:30 - 08:50	ELECTROPHORETIC DISPLAYS WITH TUNABLE, ANGLE-INDEPENDENT COLOR Elaine Lee, Lawrence Livermore National Laboratory, USA
08:50 – 09:10	ELECTROPHORETIC DEPOSITION OF METAL-PHTHALOCYANINE AS A HIGH-PERFORMANCE ELECTROCATALYST Youichi Shimizu, Kyushu Institute of Technology, Japan
09:10 – 10:00	Discussion: EPD in Industrial Applications: Challenges
10:00 – 10:30	Coffee break
10:30 – 11:30	Conclusions (NEXT EPD CONFERENCE, INDUSTRIAL INVOLVEMENT, SCIENTIFIC NETWORK ON EPD, EUROPEAN PROJECTS, INCREASE PARTICIPATION OF "ELECTROCHEMISTRY COMMUNITY", EDUCATIONAL MATTERS, ETC.)
12:00	Lunch and departures

Poster Presentations

- Electrophoretic deposition of carbon nanotubes on carbon fibers Christos Argirusis, National Technical University of Athens, Greece
- Electrophoretic deposition of Ag nanoparticles into TiO2 nanotube arrays and their performance as photoanode of dye-sensitized solar cells
 Go Kawamura, Toyohashi University of Technology, Japan
- 3. **Fabrication of octahedral tantalum cluster film by electrophoretic deposition**Ngan T.K Nguyen, National Institute for Materials Science, Japan
- 4. **Electrophoretic deposition of cellulose nanofibers in aqueous suspensions** Tomohiko Yoshioka, Okayama University, Japan
- 5. **Preparation of BaTiO3 nanotube arrays, CoFe2O4 nanoparticles and their composite** Wai Kian Tan, Toyohashi University of Technology, Japan
- 6. **Anisotropic a-Fe2O3/chitosan Nanocomposites by electrophoretic deposition** Laura Ramos Rivera, FAU Erlangen-Nuremberg, Germany
- 7. **Seed layers for the growth of oriented vertical arrays of ZnO nanorods**Ondřej Černohorský, Institute of Photonics and Electronics, AS CR, v.v.i., Czech Republic
- Investigation of affecting parameters of Electrophoretic deposition (EPD) method in (Bi0.5Na0.5)TiO3-Hexagonal BaTiO3 and their properties Minsu Kim, University of Yamanashi, Japan
- Influence of substrate morphology on ZnO nanostructures grown by electrophoretic deposition
 Omar Alejandro Espindola, Universidad Nacional de Tucumán, Argentina
- In-Situ USAXS/SAXS investigation of tunable structural color in amorphous photonic crystals during electrophoretic deposition Scott Bukosky, Lawrence Livermore National Laboratory, USA
- In vitro characterization of a biodegradable chitosan/bioactive glass coating for Mg alloys
 Svenja Heise, Friedrich-Alexander University Erlangen-Nuremberg, Germany
- 12. Antibacterial and bioactive coatings based on electrophoretic deposition of chitosan/bioactive glas/lawsone on PEEK/bioactive glass layers

 Muhammad Atiq Ur Rehman, University of Erlangen-Nuremberg, Germany
- 13. Effect of surface modifiers on the nanoparticles electro-driven assembly Joaquin Luis Yus Domínguez, ICV-CSIC, Spain