

SVC Brings Outstanding Students to the 2008 TechCon

The SVC Student Sponsorship Committee is pleased to sponsor four students who will present their work in the oral technical sessions.

Introducing these students:

Erik Wallin

Linköping University, Linköping, Sweden

Erik Wallin will present the paper titled "Low-Temperature Hysteresis-Free Reactive Deposition of Alpha-Alumina Coatings using High Power Impulse Magnetron Sputtering" (JHP-9) on Monday afternoon, April 21 at 3:30 p.m.

Adele Packer

Manchester Metropolitan University, Manchester, United Kingdom

Adele Packer will present the paper titled "The Effect of Defined Surface Topography on the Retention of Microorganisms" (JB-13) on Monday afternoon, April 21 at 4:50 p.m.

Hong-Ying Lin

University of Delaware, Newark, DE

Hong-Ying Lin will present the paper titled "Band Gap Reduction of Titanium Dioxide by Titanium Nitride Oxidation" (CT-12) in the Cleantech Symposium - Photocatalysis and Photovoltaics session, on Wednesday afternoon, April 23 at 2:50 p.m.

Salim Hassani

École Polytechnique, Montréal, Canada

Salim Hassani will present the paper titled "Predictive Tools for the Design and Optimization of Erosion Resistant Coating Systems" (T-5) on Wednesday afternoon, April 23 at 1:30 p.m.

2:50 p.m. JB-10 Influence of Chemical Composition and Structure on the Blood Compatibility of Titanium Oxide Films Prepared by E-beam Evaporation

L. Zeng and B. Dechun, Northeastern University, Shenyang, China; and I. Lee, Yonsei University, Seoul, Korea

3:30 p.m. JB-11 Tutorial on Biobased and Biodegradable Plastic Films - New Substrates for Vacuum Coating and Related Technologies

Invited 40 min. Talk

R. Narayan, Michigan State University, East Lansing, MI

4:10 p.m. JB-12 Deposition of Polymer Films by Sputtering for Bio-Applications

Invited 40 min. Talk

E. Kusano and T. Oya, Kanazawa Institute of Technology, Hakusan, Japan

4:50 p.m. JB-13 The Effect of Defined Surface Topography on the Retention of Microorganisms

Sponsored Student Presentation

A. Packer, P. Kelly, K. Whitehead, and J. Verran, Manchester Metropolitan University, Manchester, United Kingdom

5:10 p.m. JB-14 Antimicrobial Effects of Modular Atmospheric Microwave-Driven Plasma Sources

J. Ehlbeck, R. Brandenburg, T. von Woedtke, U. Krohmann, M. Stieber, and K.D. Weltmann, INP Greifswald, Greifswald, Germany

TBD JBFT-1 ToF-SIMS - A Chemical Microscope/Surface Mass Spectrometer for the Biomedical Industry

A. Schnieders and L. Sun, Tascon USA, Inc., Chestnut Ridge, NY

This is a Guaranteed Biomedical and Pharmaceutical Applications Flexible Time (JBFT) presentation; it will be presented in place of a cancelled paper earlier in this session if such situation arises.

Poster Presentations

4:30 p.m.-7:00 p.m. in the Exhibit Hall

Poster-1 Low-Frequency Noise Characteristics of Epitaxial ZnO Photoconductive Sensors S. Chang, C. Lu, and S. Change, National Cheng Kung University, Tainan City, Taiwan

Poster-2 Tribological Studies of Titanium Nitride Coatings Deposited by Combined Pulsed Magnetron Sputtering and Pulsed Biasing

Z. Liu and P.J. Kelly, Dalton Research Institute, Manchester Metropolitan University, Manchester, United Kingdom; and R.D. Arnell, University of Central Lancashire, Preston, United Kingdom

Poster-3 An 18-inch Closed-Drift Linear Ion Source for DLC and Optical Thin Film Deposition

J.E. Yehoda and S.J. Finke, Morgan Advanced Ceramics: Diamonex Products Division, Allentown, PA

Poster-4 Influence of Deposition Conditions on Mechanical Properties of Optical Coatings Prepared by Electron Beam Evaporation

T. Inomata, Opto-Soltec, Inc. Toride, Ibaraki,

Japan; K. Muro, Utsunomiya University, Utsunomiya, Tochigi, Japan; T. Aoki, Opto-Soltec, Inc., Toride, Ibaraki, Japan; and S. Ogura, Kobe Design University, Kobe, Hyogo, Japan

Poster-5 Plasma Enhanced CVD and Plasma Chemical Etching at Atmospheric Pressure for Continuous Processing of Crystalline Silicon Solar Wafers

E. Lopez, B. Dresler, G. Maeder, S. Krause, I. Dani, and V. Hopfe, Fraunhofer Institute for Material and Beam Technology (IWS), Dresden, Germany; et al.

Poster-6 Design and Fabrication of a Resistance-Switching Memory Device

N. Vickers, W. Dunn, M. Jain, R.N. Savage, and F. Wang, Cal Poly State University, San Luis Obispo, CA

Poster-7 Tribo-Corrosion Properties of Cr-Si-N Coatings on Metal Substrates

M. Benkahoul, E. Bousser, M. Azzi, P. Robin, L. Martinu, and J.E. Klemberg-Sapieha, École Polytechnique, Montréal, Canada

Poster-8 Optical Properties of Transparent Polymer Polycarbonate Modified by Low Temperature Argon/Oxygen Ion Beam Treatment

Y. Yan and Y. Wang, Beijing Institute of Aeronautical Materials, Beijing, China

Poster-9 TiAlN Films Deposited by AC Reactive Magnetron Sputtering

G.C. Vandross, H.H. Abu-Safe, D.G. Bhat, and M.H. Gordon, University of Arkansas, Fayetteville, AR; and K. Abu-Shgair, Al-Balqa University, Al-Balqa, Jordan

Poster-10 Effect of the Cathode Flow-Distributor Channels Geometry on the Performance of PEM Fuel Cell

Y. Saboohi, A. Nozad, and A. Qaffari, Sharif University, Tehran, Iran

Poster-11 Luminous Efficiency Increase through Uneven Surfaces in a Microcell Discharge of Plasma Display Panel

A. Khorami and F. Bahmani, IRIB University, Tehran, Iran

Tuesday Morning, April 22 Optical Coating

Moderators: Bryant Hichwa, *Sonoma State University*, Ric Shimshock, *MLD Technologies LLC*, Ulrike Schulz, *Fraunhofer Institut für Angewandte Optik und Feinmechanik (IOF), Germany*, and Robert Sargent, *JDSU*

8:30 a.m. O-1 Advances in Precision Optical Coatings Through the Use of a Fast-Cycle Sputter Coater

Invited 40 min. Talk

R. Sargent, M. Tilsch, G. Ockenfuss, K. Hendrix, M. Grigonis, and A. Bergeron, JDSU, Santa Rosa, CA

9:10 a.m. O-2 Atomic Layer Deposition in Mass Production of Optical Coatings

S. Sneek, Beneq OY, Vantaa, Finland

9:30 a.m. O-3 Plasma Etching and Coating Techniques to Achieve Antireflection Properties in Combination with Additional Surface Functions on Plastic Optics

U. Schulz, I. Wendling, P. Munzert, and N. Kaiser, Fraunhofer Institut für Angewandte

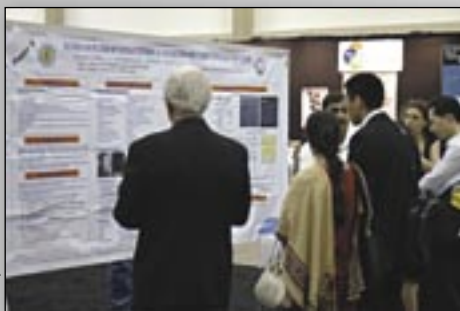


Photo by Limesa Duester

Poster presentations are on display on Monday from 4:30 p.m.-7:00 p.m. in the Exhibit Hall. See page 6 for a list of presentations in this session. Poster presentations are accepted for the program through March 1, 2008.