



ADM VIRTUAL MEETING 2021 OCTOBER 7-9

ACADEMY OF DENTAL MATERIALS • WWW.ADMCONFERENCE.COM

2021 Virtual Program Schedule

Thursday, October 7, 2021

All times are reflective of Pacific Daylight Time Zone (PDT)

Session 1

7:00-7:05	Ulrich Lohbauer <i>Welcome from the ADM President</i>
7:05-7:10	Moderator: Marco Bottino <i>Session Introduction</i>
7:10-7:50	Keynote Speaker: Gottfried Schmalz <i>Material Cytotoxicity - Who's to Blame? The Material, the Dentist or the Scientist</i>
7:50-8:00	Karl Rockne <i>Temperature Impacts on Streptococcus Mutans Growth and Substrate Utilization Kinetics.</i>

	E. OBrien 1, K. Mondal 1, C. C. Chen 2, J. L. Drummond 3, L. Hanley 2, K. Rockne 1* (1 Dept of Civil, Materials, and Environmental Engineering, 2 Dept of Chemistry, University of Illinois at Chicago, Chicago, USA, 3 JLD Consulting, USA).
8:00-8:10	<p>Nileshkumar Dubey <i>Antimicrobial and Angiogenic Hybrid Scaffold for Regenerative Endodontics</i></p> <p>N. Dubey 1,2*, J.S. Ribeiro 1, J.A. Ferreira 1, J. Xu 1, E.A. Bordini 1, L. Qu 1, L. Mei 3, A. Schwendeman 3, M.C. Bottino 1 (1 School of Dentistry, University of Michigan, Ann Arbor, USA; 2 Faculty of Dentistry, National University of Singapore, Singapore; 3 College of Pharmacy and Biointerfaces Institute, University of Michigan, Ann Arbor, USA).</p>
8:10-8:40	Live Question & Answer Session
8:40-9:00	Break - Please visit Poster and Exhibit Halls
Session 2	
9:00-9:05	<p>Moderator: Jeff Stansbury <i>Session Introduction</i></p>
9:05-9:45	<p>Keynote Speaker: Linda Wang <i>Recipe for Successful Bonding Interface? Revisiting Old Parameters to New Directions Regarding Materials and Substrates Particularities</i></p>
9:45-9:55	<p>Jasmin Koldehoff <i>Water and Protein Content Influence Creep Behavior In Dental Enamel</i></p> <p>J. Koldehoff* 1 , Mi.V. Swain 2, G.A. Schneider 1 (1 Institute of Advanced Ceramics, Hamburg University of Technology, Hamburg, Germany; 2 Faculty of Dentistry, University of Sydney, Sydney, Australia and Biomechanics and Biomaterials Lab, Don State Technical University, Rostov-On Don)</p>
9:55-10:05	Leila Nasiry Khanlar

	<p><i>Silane Containing Universal Adhesive/Cement for Bonding to Silica-Coated High-Translucent Zirconia</i></p> <p>L. Nasiry Khanlar*1, A. Abdou 2, T. Takagaki 3, S. Mori 4, T. Nikaido 3, A Zandinejad 5, J Tagami 1 (1 Department of Cariology and Operative Dentistry, Tokyo Medical and Dental University, Japan; 2 Dental Biomaterials Department, Faculty of Dentistry, King Salman International University, El Tur, South Sinai, Egypt; 3 Department of Operative Dentistry, Asahi University, Japan ; 4 Department of Chemical Science and Engineering, Tokyo Institute of Technology, Japan; 5 Department of Comprehensive Dentistry, Texas A&M University, USA).</p>
10:05-10:15	<p>José Ignacio Zorzín <i>Self-Adhesive Luting Composites: Effect of Curing-Mode and Storage on Kic</i></p> <p>A. Woeschler, R. Belli, U. Lohbauer, A. Petschelt, J. Zorzín* (Dental Clinic 1- Department for Operative Dentistry and Periodontology, Friedrich-Alexander-University Erlangen-Nuernberg, Germany).</p>
10:15-10:45	Live Question & Answer Session
Friday, October 8, 2021	
<i>All times are reflective of Pacific Time Zone</i>	
Session 3	
7:20-7:25	<p>Moderator: Jason Griggs <i>Session Introduction</i></p>
7:25-8:05	<p>Keynote Speaker: Sabine Begand <i>Fracture Toughness of 3Y-TZP Zirconia Measured by the Chevron-Notch Beam Method – A Round-Robin Study</i></p>

8:05-8:45	Keynote Speaker: Susanne Scherrer <i>Zirconia Connector Failures: Lessons to Learn</i>
8:45-9:15	Live Question & Answer Session
9:15-9:35	Break - Please visit Poster and Exhibit Halls
Session 4	
9:35-9:40	Moderator: Roberto Braga <i>Session Introduction</i>
9:40-10:20	Keynote Speaker: Vinicius Rosa <i>Graphene: A Honeycomb of Opportunities for Dental and Biomedical Applications</i>
10:20-10:30	Mateus Rocha <i>Algorithm to Predict the Final Color of Leucite-Reinforced Ceramic Restorations</i> C. Kose 1,2, D. Oliveira 1, J.F. Roulet 1, P. Pereira 1, M.G. Rocha 1* (1 College of Dentistry, University of Florida, Gainesville, USA; 2 School of Dental Medicine, Tufts University, Boston, USA).
10:30-10:45	Live Question & Answer Session
10:45-10:50	Moderator: Will Palin <i>Marshall Award Introduction</i>
10:50-10:55	Marshall Award Finalist: Kartikeya Singh Jodha <i>Fracture Toughness and Fractal Dimension of Two Dental Glass-Ceramics</i> K.S. Jodha* 1, N. Kaur 1, S.M. Salazar Marocho 1, J.J. Mecholsky Jr. 2, S.T. Lirette 3, Y. Duan 1, J.A. Griggs 1 (1 Biomedical

	Materials Science, University of Mississippi Medical Center, Jackson, USA; 2 Materials Science and Engineering, Herbert Wertheim College of Engineering, University of Florida, Gainesville, USA; 3 Data Science, University of Mississippi Medical Center, Jackson, USA).
10:55-11:00	Marshall Award Finalist: Ana Paula Piovezan Fugolin <i>Fatigue-Crack Propagation in Thermosetting Polymers with Self-Healing Capability</i> A.P.P. Fugolin*, M. Logan, J.L. Ferracane, C.S. Pfeifer (Oregon Health & Science University, Portland, USA).
11:00-11:05	Marshall Award Finalist: Patricia Comeau <i>Exploring the Inclusion of Photosensitive Compounds on Methacrylate-Based Resin Properties</i> P. Comeau*, J. Burgess, N. Malekafzali, N. Rezqi Qomi, A. Manso (University of British Columbia, Oral Health Sciences, Vancouver, Canada).
11:05-11:20	Live Question & Answer Session
11:20-11:40	Break - Please visit Poster and Exhibit Halls
11:40-13:10	<u>ADM Business Meeting (Members Only)</u>

Saturday, October 9, 2021

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Session 5

7:00-7:05	Moderator: Alex Fok <i>Session Introduction</i>
7:05-7:45	Keynote Speaker: Yan Wang <i>Nanotubular Modification on Titanium Surface to Enhance Osteogenesis</i>
7:45-7:55	Megha Satpathy <i>Effect of Dental Implant Design Parameters on its Fatigue Limit</i> M. Satpathy* 1, R.M. Jose 1, M.J. Sinclair 1, Y. Duan 1, A. Della Bona 2, J.A. Griggs 1 (1 University of Mississippi Medical Center, Jackson, USA; 2 University of Passo Fundo, Passo Fundo, Brazil).
7:55-8:05	Fei Lin <i>Fatigue Analysis of Restored Teeth Longitudinally Cracked Under Cyclic Loading</i> F. Lin* 1, A. Fok 2, R. Ordinola-Zapata 2, N. Ye 2, Y.C. Heo 2 (1 Department of Cariology and Endodontology, Peking University School and Hospital of Stomatology, Beijing, China; 2 School of Dentistry, University of Minnesota, Minneapolis, USA).
8:05-8:15	Wondwosen Aregawi <i>Validation of Model Dental Restoration for Failure Prediction</i> W. Aregawi*, A. Zhang, R. Chen, B. Lima, C. Aparicio, J. Rudney, A.S.L. Fok (School of Dentistry, University of Minnesota, USA).
8:15-8:45	Live Question & Answer Session
8:45-9:05	Break - Please visit Poster and Exhibit Halls
Session 6	

9:05-9:10	Moderator: Milena Cadenaro <i>Session Introduction</i>
9:10-9:50	Keynote Speaker: Arzu Tezvergil-Mutluay <i>Collagen Degradation in Hybridized Interfaces: Can We Control It?</i>
9:50-10:00	Umer Daood <i>Synthesis and Incorporation of Quaternary Ammonium Silane Antimicrobial into Self-Crosslinked Type I Collagen Scaffold: A Hybrid Formulation for 3D Printing</i> U. Daood ^{1*} , R.A. Bapat ¹ , S.K. Muthusamy ² , P. Sidhu ¹ , K.-K. Mak ³ , A. Parolia ¹ , M.R. Pichika ³ , L.L. Seow ¹ , T. Cao ² (1 School of Dentistry, International Medical University Kuala Lumpur, Kuala Lumpur, Malaysia; 2 Faculty of Dentistry, National University of Singapore, Singapore; 3 School of Pharmacy, International Medical University Kuala Lumpur, Kuala Lumpur, Malaysia)
10:00-10:10	Gabriela de Souza Balbinot <i>Controlled Drug Delivery in Metronidazole-Containing Bioactive Endodontic Cements</i> G. De Souza Balbinot *, V.C.B. Leitune, K.C. Zatta, T. Benin, F. Visioli, S. Staniscauski Guterres, F.M. Collares (School of Dentistry, Universidade Federal Do Rio Grande Do Sul, Porto Alegre, Brazil).
10:10-10:40	Live Question & Answer Session
10:40-11:20	Closing Remarks- Awards & ADM 2022 Athens Promotion

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