

Innovations in Biomedical Materials 2012 Preliminary Speakers List

Plenary Speakers

Delbert	Day	MO-SCI Corp	<i>Radioactive Glass Microspheres for Medical Applications</i>
Larry	Hench	Kings College / University of London	<i>Bioactive Glasses: New Approaches for Tissue Repair, Regeneration and Prevention</i>
Alan J.	Russell	Carnegie Mellon University	Title to be announced
Riad	Salem	Northwestern University	<i>Radioembolization with Yttrium 90 Microspheres</i>

Tutorial Session Presentations

Gary	Mushock	ASM International	<i>Materials Data Impact on Device Design</i>
Matt O'Donnell	O'Donnell	BSI, UK	<i>CE Marking of Medical Devices</i>
Kristen	Reonigk	Granta Design	<i>Medical Materials Data Management</i>

Session Chairs

Randy	Avent	North Carolina State University	Sensors
Charanpreet	Bagga	Prosidyan, Inc.	Use of Bioactive Glass in Bone Graft Substitute Materials – The New Trend in Bone Repair
Lin	Chen	University of Illinois	Wound or Burn Treatment
Luisa	DiPietro	University of Illinois at Chicago	Wound or Burn Treatment
Erik	Erbe	Nuvasive, Inc	Biomaterial Composites: Theory and Medical Applications
Amy	Harkins	St. Louis University	Blood Vessel and Nerve Guides
Andy	Larson	Northwestern University	Biomedical Imaging
Thomas	McGee	Iowa State University	Wolff's Law, A Guide for Orthopaedic Implant Research
Gregory	Pomrink	NovaBone Products LLC	Malleable Bone Void Fillers (Bone Cements or Putty)
Markus	Reiterer	Medtronic, Inc.	Commercialization of Biomedical Implants and Devices
Peter	Ulrich	Titan Spine	Surface Treatments and Coating of Titanium Implants

Confirmed Invited Speakers

Charanpreet	Bagga	Prosidyan, Inc.	<i>Selection of Biomaterials for Spinal Interbody Fusion Implants – Consideration of Design, Endplate Bonding, and Modulus vs. Engineered Modulus</i>
Lin	Chen	University of Illinois	<i>Effect of bioactive borate glass fiber scaffolds on wound healing in diabetic mice</i>

Confirmed Invited Speakers

Clever	Chinaglia	Federal University of Sao Carlos	<i>Enhancement of Titanium Surface Bioactivity by Treatment with a Highly Bioactive Glass</i>
David	Cruickshank	Trans-Tech Inc.	<i>Magnetic Oxide Material Optimized for 13.56 MHz Medical RFID Applications</i>
Luisa	DiPietro	University of Illinois at Chicago	<i>Wound healing research: Past, present, and future</i>
Shaun	Eshraghi	Georgia Institute of Technology	<i>Finite element modeling and mechanical property assessment of polycaprolactone-hydroxyapatite composite scaffolds fabricated by selective laser sintering</i>
Shaun	Eshraghi	Georgia Institute of Technology	<i>Large area maskless photopolymerization of hydrogels for cartilage tissue engineering</i>
Kenan	Fears	U.S. Naval Research Lab	<i>Circular-Dichroism Spectroscopy of Albumin Adsorbed on Calcium and Strontium Phosphate Microspheres</i>
Matthias	Frank	University of Oslo	<i>Hydride layer created by hot acid etching suppresses hydride formation by cathodic reduction on titanium based implant surfaces</i>
Puneet	Gill	Florida International University	<i>Biocompatibility, Corrosion and Mechanical Studies of Surface Treated Nitinol Alloys</i>
Puneet	Gill	Florida International University	<i>Influence of Anodization on Corrosion Resistance, Ion Leaching and Wettability of Biodegradable Magnesium Metal Matrix Composites</i>
Ozkan	Gokcekaya	Istanbul Technical University	<i>Yttrium doped Hydroxylapatite Coating and Antibiotic Duplex Coating on Titanium with Electrostatic Spray Deposition Method</i>
David	Greenspan	Spinode Consulting	<i>Effect of Surface Treatment of Titanium Alloy on Maturation of Osteoblasts In Vitro</i>
Jing	Gu	Worcester Polytechnic Institute	<i>Effects of Crosslink ratio on photocrosslinkable P(AM-AA) Gels for Drug Delivery</i>
Amy	Harkins	Saint Louis University	<i>Effects of Bioactive Glass Composites on Neuronal Cell Behavior for Tissue Engineering Applications</i>
Jacqueline	Johnson	UTSI	<i>X-ray imaging enhancement with glass ceramic plates</i>
Steven	Jung	MO-SCI Corporation	<i>Chronic Non-Healing Wounds Treated with Bioactive Borate Glass Nanofibers</i>
Tadashi	Kokubo	Chubu University	<i>Bioactive Ti metal and its alloys formed with positively charged TiO₂ surface layer</i>
Andrew	Larson	Northwestern University	<i>MRI of SPIO-Labeled Radioembolization Microspheres</i>
Bryan	McEntire	Amedica Corporation	<i>An Overview of Silicon Nitride as a Novel Biomaterial</i>
Jill	Meyer	University of Wisconsin - Milwaukee	<i>Characterization of Elution of Cisplatin from Commercially Available Bone Cements</i>
Jill	Meyer	University of Wisconsin - Milwaukee	<i>Minimal Effect on Mechanical Strength with the Addition of Cisplatin to Commercially Available Bone Cements</i>
Mohammad	Mujahid	National University of Sciences and Technology	<i>Biodegradable Polymer-Hydroxyapatite Composite Scaffolds: Fabrication and Properties</i>
Raheleh	Nikonammofrad	Sharif University of Technology	<i>Mechanochemical synthesis of copper doped nanostructured fluorapatite</i>
Maciej	Nowacki	Ludwik Rydygier Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Torun.	<i>The potential use of innovative hemostatic dressings as a supportive cancer care factor in parenchymatous organs surgery – preliminary report</i>
Gregory	Pomrink	NovaBone Products LLC	<i>Bioactive Glass Applications, Mechanism and Clinical Results</i>

Confirmed Invited Speakers

C.	Primus	Primus Consulting	<i>Dental Cements- Traditional and Bioactive</i>
Amaliya	Rasyida	National Taiwan University of Science and Technology	<i>PBAT Based Nanocomposites for Tissue Engineering and Industrial Applications</i>
Alexandre	Ribeiro	National Institute of Technology	<i>Characterization of dense and porous titanium with nanotextured surface induced by chemical oxidation</i>
Ramadoss	Roop Kumar	BITS Pilani, Dubai Campus	<i>Development of bioactive coatings of HA–G–Ti composites for in vivo studies</i>
Marina	Souza	Federal University of São Carlos	<i>New Bioactive Glass with Low Devitrifying Tendency</i>
Bo	Su	University of Bristol	<i>Developing micro- and nano-patterning technique for osseointegrative titanium implants</i>
Bo	Su	University of Bristol	<i>Novel microfabrication of 3D composite lattice scaffold for bone tissue engineering</i>
Roman	Surmenev	Tomsk Polytechnic University	<i>Biocompatible RF-magnetron sputter deposited CaP-based coatings on the surface of technically pure titanium</i>
Hanna	Tiainen	University of Oslo	<i>Highly porous TiO2 scaffolds for bone repair</i>
Shabana	Urooj	Gautam Buddha University	<i>Examining Brain Edema Through Brain Impedance Analysis</i>
Juan	Vivanco	The University of Wisconsin Madison	<i>Bioactivity of Bioceramic Bone Scaffolds Fabricated at Two Sintering Temperatures</i>
Martin	Walter	University of Oslo	<i>Titanium hydroxilation – Hydroxide formation on titanium alloy surfaces by anodic oxidation</i>
Seiji	Yamaguchi	Chubu University	<i>Novel bioactive Ti metal and its alloy enriched with calcium ions on their surfaces by simple chemical and heat treatments</i>
Jing	Zhang	Indiana University - Purdue University Indianapolis	<i>Residual Stress in Ceramic Coated Biocompatible AZ31 Magnesium Alloys</i>
Jing	Zhang	Indiana University - Purdue University Indianapolis	<i>Novel Carbon Nanotube Reinforced Bioglass Composites for Orthopedic Applications</i>