

call for posters – abstracts due May 15, 2014

## Innovations in Biomedical Materials: Focus on Ceramics July 30 – August 1, 2014



Hilton Columbus Downtown, Columbus, Ohio, USA



### Preliminary Program

#### Wednesday, July 30, 2014

4:00 to 5:30 p.m.

##### **Rapid-fire Presentations**

Over 25 researchers, manufacturers, and practitioners will introduce their topics by giving a 2-minute oral presentation. Each presenter will show two PowerPoint slides that provide high level details about the in-depth poster they are presenting later in the Poster Session.

5:30 to 7:00 p.m.

##### **Welcome Reception and Poster Session**

Over 25 researchers, manufacturers, and practitioners will make individual poster presentations during a Welcome Reception designed for optimal networking among all attendees.

#### Thursday, July 31, 2014

8:30 to 9:30 a.m.

##### **Plenary Session I**

##### ***Affordable healthcare? The role of bio-ceramic technology***

Larry Hench, professor, Florida Institute of Technology, and inventor of Bioglass

9:30 to 10:00 a.m.

##### **Coffee Break, Sponsor Tabletops, and Posters**

10:00 to 11:00 a.m.

##### **Orthopedics I Panel Discussion**

This panel discussion discusses new and emerging bioceramic technologies and technologies that are in the commercial pipeline. It will focus on bioceramics with orthopedic applications, including cranial, facial, orthopedic, bone void fillers, and spinal applications. Individual

[www.ceramics.org/bioceramics2014](http://www.ceramics.org/bioceramics2014)

panelists will discuss the many uses of bioactive glass for the treatment of bone injuries and bone defects in the body. It will explore material properties and forms along with dynamic bioactive bone graft material that can be molded into desired shapes for implantation.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- Zehra Tosun, senior R&D biomedical engineer, NovaBone Products, LLC
- Charanpreet S. Bagga, president and CEO, Prosidyan, Inc.
- Markus Reiterer, senior principal scientist, Corp. Core Technologies, Medtronic, Inc.
- David Dean, Associate Professor of Plastic Surgery and Director of the Osteo Engineering Laboratory, Ohio State University

11:00 a.m. to 12:00 p.m.

#### **New Technologies Panel Discussion**

This panel discussion focuses on emerging technologies containing bioceramics covering wound care, bone grafting, drug delivery and coatings. Specific topics include emerging topics of bioactive glasses, including new frontiers in wound care and bone grafting. Drug delivery will also be discussed, including nanoparticulate alternatives for drug delivery, porous silica microspheres for medical applications, and coating technologies for medical implants.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- James H. Adair, CSO, Keystone Nano, Inc.; professor, materials science & engineering, bioengineering and pharmacology, Pennsylvania State University
- George G. Wicks, president, Wicks Consulting Services
- Orville Bailey, president, Covalent Coatings Technologies, LLC
- Jacob J. Stiglich, Ultramet, Inc.

12:00 to 1:30 p.m.

**Lunch, Sponsor Tabletops, and Posters**

1:30 to 2:30 p.m.

### **Plenary Session II**

#### ***The Current Regulatory Environment***

Glenn Stiegman, vice president, regulatory affairs, Musculoskeletal Clinical Regulatory Advisers, LLC (MCRA), New York, New York

2:30 to 3:00 p.m.

### **Coffee Break, Sponsor Tabletops, and Posters**

3:00 to 4:00 p.m.

#### **Regulatory, Patents and Intellectual Property Panel Discussion**

This panel discussion focuses on the current regulatory environment, Food and Drug Administration trends, how to obtain and maintain compliance, patent trends and protecting intellectual property.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- Aditya Sukthankar, regulatory consultant, mdi Consultants Inc.
- Tram Nguyen, partner, Monument IP Law Group
- Glenn Stiegman, vice president, regulatory affairs, Musculoskeletal Clinical Regulatory Advisers, LLC (MCRA)

4:00 to 5:00 p.m.

#### **Radiotherapeutics Panel Discussion**

This panel discussion focuses on clinical efficacy of tenured products along with new treatment options from emerging technologies and applications. Panelists will discuss product development, materials requirements, properties of good radiotherapeutic materials, chemical durability, how to maximize specific activity, method of activation and the right type of radioisotope.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- Mark Tann, MD, associate professor of clinical radiology, Indiana University School of Medicine

- Wayne Mullet, director of development, BTG International Canada Inc.
- Delbert Day, Curators' Professor Emeritus of Materials Science & Engineering, Missouri University of Science and Technology

6:00 to 8:00 p.m.

**Conference Dinner**

**Friday, August 1, 2014**

8:30 to 9:30 a.m.

**Plenary Session III**

***Clinical Testing***

Dr. Safdar Khan, MD, chief, division of spine, The Ohio State University, Columbus, Ohio

9:30 to 10:00 a.m.

**Coffee Break and Sponsor Tabletops**

10:00 to 11:00 a.m.

**Clinical Testing Panel Discussion**

This panel discussion focuses on the efficacy of a multitude of products from a variety of medical fields and how these products may be improved to get an improved outcome. Panelists will cover preliminary and primary research, testing required for commercialization, and clinical trials.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- Dr. Safdar Khan, MD, chief, division of spine, The Ohio State University
- Dr. Ben Tempel, CEO, Nanophthalmics

11:00 a.m. to 12:00 p.m.

**Bioceramic Testing Panel Discussion**

This panel discussion focuses on test methods currently used for evaluating bioceramics, especially in-vitro and cellular biology. The panelists will also discuss which animal models to use for acceptance by regulatory groups for specific indications of treatment.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- David Greenspan, President, Spinode Consulting
- Larry Hench, professor, Florida Institute of Technology
- Steve Jung, Chief Technology Officer, Mo-Sci Corporation

12:00 to 1:30 p.m.

**Lunch, Sponsor Tabletops**

1:30 to 2:30 p.m.

**Plenary Session IV**

***Surgical Trends***

Dr. Hyun Bae, MD, surgeon, The Spine Institute, Santa Monica, CA

2:30 to 3:00 p.m.

**Coffee Break and Sponsor Tabletops**

3:00 to 4:00 p.m.

**Orthopedics II Panel Discussion**

This follow-up session to Orthopedics I discusses new and emerging bioceramic technologies and technologies that are in the commercial pipeline. Individual panelists will discuss collagen ceramic products engineered to mimic the composition and pore structure of natural human bone along with bioactive bone graft materials that undergoes a time dependent surface modification upon implanting in living tissue, eventually resulting in the formation of new bone.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- Sunil Saini, director, R&D, Integra
- John Brunelle, chief technology officer, BioStructures LLC
- David Hill, Associate Professor, Department of Anatomy and Cell Biology, Georgia Regents University

4:00 to 5:00 p.m.

**Dental Applications Panel Discussion**

This panel discussion focuses on new and emerging bioceramic technologies and technologies that are in the commercial pipeline with dental applications.

*Each speaker will give a 5-minute introductory statement about their area of expertise and their technology of interest. A moderator will then ask questions and facilitate audience interaction.*

Confirmed Panelists:

- Carolyn Primus, Primus Consulting & Avalon Biomed Inc.
- Bill Poulson, product manager, Biomet 3i
- Gregory Pomrick, vice president, R&D, NovaBone Products LLC