

# Innovations in Biomedical Materials 2012

## TENTATIVE SCHEDULE

North Carolina Tissue Engineering and Regenerative Medicine Society Conference will be held on Monday, September 10, 2012 from 8:00 a.m. to 5:30 p.m. Although co-located, it is a separate conference.

### Monday, September 10, 2012

Networking Reception 5:30 p.m. – 7:30 p.m.

### Tuesday, September 11, 2012

Plenary Speaker 9:00 a.m. – 10:00 a.m.  
 Break 10:00 a.m. – 10:30 a.m.  
 Three Concurrent Sessions (4 speakers each – R&D, Clinical, Manufacturing) 10:30 a.m. – 12:00 p.m.  
 Lunch with Plenary Session 12:00 p.m. – 1:30 p.m.  
 Three Concurrent Sessions (4 speakers each – R&D, Clinical, Manufacturing) 1:30 p.m. – 3:00 p.m.  
 Break 3:00 p.m. – 3:30 p.m.  
 Three Concurrent Sessions (4 speakers each – R&D, Clinical, Manufacturing) 3:30 p.m. – 5:00 p.m.  
 Poster Session 1, Exhibit, Reception 5:00 p.m. – 8:00 p.m.

### Wednesday, September 12, 2012

Plenary Speaker 9:00 a.m. – 10:00 a.m.  
 Break 10:00 a.m. – 10:30 a.m.  
 Three Concurrent Sessions (4 speakers each – R&D, Clinical, Manufacturing) 10:30 a.m. – 12:00 p.m.  
 Lunch with Plenary Session 12:00 p.m. – 1:30 p.m.  
 Three Concurrent Sessions (4 speakers each – R&D, Clinical, Manufacturing) 1:30 p.m. – 3:00 p.m.  
 Break 3:00 p.m. – 3:30 p.m.  
 Three Concurrent Sessions (4 speakers each – R&D, Clinical, Manufacturing) 3:30 p.m. – 5:00 p.m.  
 Poster Session 2, Exhibit, Reception 5:00 p.m. – 8:00 p.m.

### Thursday, September 13, 2012

Discussion Groups – with Plenary and Invited Speakers 9:00 a.m. – 10:00 a.m.  
 Break 10:00 a.m. – 10:30 a.m.  
 Tutorial Sessions 10:30 a.m. – 12:00 p.m.

#### Hotel

Hilton North Raleigh-Midtown, 3415 Wake Forest Road, Raleigh, NC 27609  
 Tel: 1-919-872-2323 Fax: 1-919-876-0890  
 To reserve your room, visit [www.ceramics.org/biomaterials2012](http://www.ceramics.org/biomaterials2012).

#### Rates:

Single/Double - \$115 Quad - \$135  
 Triple - \$125 Government - \$91



The American Ceramic Society  
[www.ceramics.org](http://www.ceramics.org)  
 600 N. Cleveland Ave., Suite 210  
 Westerville, Ohio 43082 USA

September 10-13, 2012  
 Hilton North Raleigh-Midtown, NC, USA

Innovations in Biomedical  
 Materials 2012

Call for Papers – Due March 7, 2012

*At the intersection of medical practitioners, materials researchers,  
 manufacturers and marketers.*

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**Innovations in Biomedical Materials** is a new, biennial conference for those working in the materials research, manufacturing and medical communities. This conference will specifically look at technological advancements, discuss product innovations and identify potential applications. Attendees like you will experience an innovative and sharing environment where you can network with one another, explore opportunities to partner with research organizations and manufacturing, and discuss the growing entrepreneurial side of materials in the biomedical field.

Most importantly, this conference will address these critical questions:

- What research will advance biomedical materials for tissue engineering, novel treatments and other medical applications?
- What material and product innovations are needed for the medical community to improve treatments?
- How can businesses capitalize on basic research and understand the medical community needs to shape innovative and effective new products?



Together, we will tackle these issues and you will walk away with new ideas for the ceramic and glass side of the biomedical materials industry including:

- Bioactive glass for bone augmentation
- Bone cements
- Scaffolds
- Soft tissue regeneration
- Wound treatment
- Radiation therapy



If you work in the research or business side of the biomedical materials field, **Biomaterials 2012** is designed specifically for you. Join like-minded professionals for an in-depth look into the current and future trends of the industry and how they will grow your business and change the world. Stay connected to meeting updates by joining the email list at [www.ceramics.org/biomaterials2012](http://www.ceramics.org/biomaterials2012)



#### Meeting Co-chairs:

**Steven Jung, PhD**  
Senior Research Engineer, Mo-Sci Corporation  
573-364-2338 | [sjung@mo-sci.com](mailto:sjung@mo-sci.com)

**Roger Narayan, MD, PhD**  
Professor, Biomedical Engineering  
University of North Carolina and NC State University  
919-696-8488 | [roger\\_narayan@ncsu.edu](mailto:roger_narayan@ncsu.edu)



## TRACKS:

**Innovations in Biomedical Materials 2012** will emphasize collaboration between R&D, medical practitioners, and biomedical materials manufacturers/marketers to better develop emerging technologies into marketable products. Submit your abstract by **March 7, 2012** in:

#### Uses of Bioactive Glass in New Treatments

Novel bioactive glass forms, compositions, and microstructures focused on improving the natural healing process for treatment of any area of the body.

**Track Chair:** Charanpreet Bagga, Prosidyan, Inc.

#### Blood Vessel and Nerve Guides

Biomaterials that are used specifically for guiding vascular or nerve growth or regeneration. Insight into the environment needed for successful vascular or nerve regeneration applications.

**Track Chair:** Dr. Amy Harkins, St. Louis University

#### Three-Dimensional Scaffolds for Tissue Regeneration

Scaffolds for both segmental load bearing defects and non load bearing bone void fillers are of interest. Primarily for orthopedic, dental, and spine applications.

**Track Chair:** Dr. Hyun Bae, Cedar Sinai Hospital

#### Malleable Bone Void Fillers (Bone Cements or Putty)

Improvements in bone void filler technology or insight into the current products commercially available. This track may cover improvements in carrier technology, bone filler technology, new products, or conceptual products.

**Track Chair:** Dr. Greg Pomrink, NovaBone

#### Wound or Burn Treatment

Novel methods, dressings, or insights into effective wound healing or burn treatment. In-vitro data may be acceptable, but in-vivo animal or human data preferred.

**Track Co-chairs:** Dr. Luisa DePietro and Dr. Lin Chen, University of Illinois at Chicago

#### Surface Treatments and Coating of Titanium Implants

Surface treatment or coating technology aimed at improving the clinical outcomes of titanium implants. This track is open to all areas of clinical use including dental, orthopedic, and spine.

**Track Chair:** Dr. Peter Ulrich, Titan Spine

*"Sessions are being designed to help you make valuable contacts and to educate both the R&D and applied medical community about valuable information necessary to advance research and business. Other sessions will focus on steering R&D efforts to better develop new ideas and products for the medical industry and informing medical practitioners and manufacturers about new technologies available for limited trials and licensing."*

– Ted Day, R. Ph., President, Mo-Sci Corporation

#### Composites

This is a general track that covers biomaterial composites for various applications.

**Track Chair:** Dr. Erik Erbe, NuVasive

#### Sensors

This is a general track that covers sensor technology that will be or is currently applied to improve healing.

**Track Chair:** Dr. Randy Avent, North Carolina State University

#### Biomedical Imaging

This track is to discuss specific clinical needs for advanced biomedical imaging or to showcase a new imaging technology.

**Track Chair:** Dr. Andy Larson, Northwestern University

#### Radiation Treatment

This track will focus on biomaterial radiation treatment options, current products, future products, and new areas or methods of treatment.

**Track Chair:** Dr. Riad Salem, Northwestern University

#### Hemostasis and Blood Loss Control

Hemostatic devices, advanced tourniquets, and other blood loss control technologies. Insight into current technologies and desirable future development are other acceptable topics.

## ABSTRACT SUBMISSION INSTRUCTIONS

Visit [www.ceramics.org/biomaterials2012](http://www.ceramics.org/biomaterials2012) to review the session topics then select the "Submit Abstract" hyperlink to be directed to the Abstract Central website. If you have questions, please contact Marilyn Stoltz at [mstoltz@ceramics.org](mailto:mstoltz@ceramics.org) or 614-794-5868. Abstracts are due March 7, 2012.