

## Letter from the President

To the TERMIS Membership,

By the time this newsletter reaches you, the European Chapter meeting in Galway, Ireland will be history. From the program organized by Abhay Pandit and his colleagues, this meeting promises to be extraordinary in every respect; particularly in one of the areas that I believe is very important to the society which is the clinical translation of tissue engineering and regenerative medicine.

This note is intended to provide a quick update of governing board activities. David Williams (President-Elect), the governing board and I have been addressing several issues of relevance to all members of TERMIS.

- We are pleased to report that the financial status of TERMIS is on solid ground at the moment. Our financial stability of course depends entirely upon the continued success of the three chapter meetings held each year and the world congress every third year.
- On a similar note, our membership has steadily grown and by the time all members are counted at the end of each year, we have more than 3,000 members as part of our global society. This critical mass places us in a strong position to negotiate favorable terms with publishing companies, conference venues, and other such activities. This membership also speaks to the interest and enthusiasm of scientists around the world in the field of regenerative medicine.
- The official TERMIS journal, *Tissue Engineering* published by MaryAnn Liebert, has been particularly supportive of our growth and has provided a very respected site for publication of our scientific activity. Of note, you realize that by being a member of TERMIS, you have free on-line access to the journal; a benefit that is at no small cost to MaryAnn Liebert and we extend our gratitude to her and her staff.
- The governing board has encouraged each of the member chapters to organize various awards for their membership to be presented on an annual basis. You should see evidence of this activity at some of the meetings in 2010.
- The membership and research activity within emerging countries, especially on the continents of Africa and South America, are increasing steadily. The governing board is encouraging these countries in a variety of ways to continue this upward trend.

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Queensland University of Technology

Sarah Wilburn  
TERMIS Administrator

## Letter from the President Continued...

During the next 2 ½ years, I have several goals which I think are important for the society to achieve.

First, our efforts at clinical translation of regenerative medicine activities must be sustained and increased to the fullest possible extent. The mark of our success will not, in the long run, be measured by the amount of money poured into regenerative medicine research, but rather by the number of companies commercializing the technology and the number of patients that are treated as a result of our scientific efforts. One of the most obvious and practical means of accomplishing this is to engage the clinical specialties in our efforts and activities. To this end, I would strongly encourage the various chapters to organize workshops that are directed toward a strong mixture of basic scientists and clinicians.

Secondly, it is just as important that we increase our efforts as a society to strengthen the ties with developmental biologists. The discipline of developmental biology has existed much longer than the field of tissue engineering and regenerative medicine. Our objective of recreating functional tissues and organs is closely aligned with many of the principles of developmental biology. It would benefit members of both disciplines to exchange information and collaborate in funded research. Workshops and special sessions that engage individuals from both of these disciplines will move us in that direction.

Finally, I would like to see an expansion of the opportunities that are already emerging in the collaboration between stem cell biologists and scientists in regenerative medicine/tissue engineering. This collaboration is happening to a moderate extent already, but a more formal attempt to integrate activities of the two societies can only result in increased productivity.

The meetings planned for Sydney, Australia and Orlando, Florida later in 2010 promise to be very strong from a scientific standpoint. David and I look forward to seeing you at each of these meetings.

Sincerely,  
Stephen F. Badylak, DVM, PhD, MD  
TERMIS President



**REGISTER TODAY** for the  
2010 TERMIS-AP Sydney Conference!

**Early bird registration available  
until 19 July 2010!**



## Letter from the Editor

Dear Colleagues and Friends,

The first half of the year is already over again and as I stop and ponder over writing for this newsletter I cannot help and become a bit philosophical. At the moment, I am reading the book "Amusing Ourselves to Death" by Neil Postman. A book of social commentary published 25 years ago. Neil Postman predicted that in the year 1985 (the Mac computer is 1 year old, Ronald Reagan is the American president and Mikhail Gorbachev has just become the Soviet leader) that the television would undermine other forms of communication, particularly the written word in the next ten years. How right he was! Yet, living in 2010 means another dimension; we are busy writing emails, returning calls, downloading tunes, playing games (online, Play station, X-Box, etc.) checking out websites, sending text messages, IM'ing, Tivoing, watching what we have Tivoed, ....no not one after the other, if possible all at the same time.

So what does this have to do with our area of tissue engineering and regenerative medicine? Well the developments in our field are also moving very fast and in parallel; I cannot keep up with the newest literature, news and breakthroughs. More and more journals, especially open access and web portals seem to show up out of the blue. More and more conferences are organized and advertised. Hence, on that philosophical note I wonder how our field and the newsletter will look in 20 years?

Yours sincerely,

Professor Dietmar W. Hutmacher PhD (NUS), MBA (Henley)



December 5-8, 2010, Hilton in the WALT  
DISNEY WORLD® Resort - Orlando, Florida

## CALL FOR ABSTRACTS

**Abstract submission for TERMIS-NA 2010 is now open.** [Click here](#) to submit your abstract. The deadline is 5:00 p.m. EDT on August 10, 2010.

Details about the format and procedure for submitting abstracts for the **TERMIS NA 2010 Conference and Exposition** are available at [www.termis.org/na2010](http://www.termis.org/na2010). **Abstract submission deadline is August 10, 2010.** For more information about abstract content, format and submission procedure, contact Andrea Lubienski, Forecast Technology Group, Inc., [alubienski@conferencestrategists.com](mailto:alubienski@conferencestrategists.com).

### **[Technology Innovation Program \(TIP\) Announced 2010 Competition:](#) "Manufacturing and Biomanufacturing: Materials Advances and Critical Processes"**

The new TIP competition offers cost-shared funding for innovative research on "Manufacturing and Biomanufacturing: Materials Advances and Critical Processes." Approximately \$25 million is available for first-year funding for an expected 25 new TIP projects.

#### **Additional Resources:**

1. NIST press release for the 2010 competition:  
[http://www.nist.gov/public\\_affairs/releases/20100413\\_TIP\\_comp\\_announce.html](http://www.nist.gov/public_affairs/releases/20100413_TIP_comp_announce.html)
2. TIP White Paper "Manufacturing and Biomanufacturing: Materials Advances and Critical Processes":  
[http://www.nist.gov/tip/cur\\_comp/upload/manufacturing\\_biomanufacturing\\_matls\\_adv\\_crit\\_proc\\_04\\_2010\\_wp.pdf](http://www.nist.gov/tip/cur_comp/upload/manufacturing_biomanufacturing_matls_adv_crit_proc_04_2010_wp.pdf)
3. Full Federal Funding Opportunity (FFO) announcement, available at Grants.gov or the TIP Web site:  
[http://www.nist.gov/tip/cur\\_comp/upload/2010\\_ffo\\_competition\\_0410.pdf](http://www.nist.gov/tip/cur_comp/upload/2010_ffo_competition_0410.pdf)
4. TIP proposal preparation kit:  
[http://www.nist.gov/tip/cur\\_comp/kit\\_home.cfm](http://www.nist.gov/tip/cur_comp/kit_home.cfm)

As mentioned on page 10 of the Federal Funding Announcement, the term "biomanufacturing" refers to manufacturing of biopharmaceuticals. Biopharmaceuticals are complex pharmaceutical products manufactured by biotechnology. Two types of biomanufacturing are considered: bioprocessing for production of biopharmaceuticals such as recombinant proteins as vaccines, therapeutics, or as molecular probes for diagnostics, and advanced biofabrication and processing for production of cell or tissue-based biopharmaceuticals such as engineered cells and engineered tissues as therapies. Engineered tissues are complex structures involving cells, scaffolds and signaling molecules. Manufacturing of either type of biopharmaceuticals is within the scope of the competition.

***Tissue Engineering, Parts, A, B & C***

**Tissue Engineering, Parts A, B, & C - The Official Journal of TERMIS  
Expanding to 24 issues in 2010!**

Members of TERMIS may purchase a print subscription to the journal, *Tissue Engineering, Parts A, B, & C*, at a discounted membership rate. The Journal is published by Mary Ann Liebert, Inc., publishers, and is the Official Journal of TERMIS (Tissue Engineering and Regenerative Medicine International Society). TERMIS has no affiliation with the journal entitled *Tissue Engineering and Regenerative Medicine* published by John Wiley & Sons.

For further information on the journal, *Tissue Engineering, Parts A, B, & C*, and to view information on other journals published by Mary Ann Liebert, Inc. please visit the [Tissue Engineering](#) website.

***Tissue Engineering, Parts A, B, & C — 2010 Subscription Rates***

*Tissue Engineering* is expanding in 2010 due to the continued increase in the numbers of excellent reviews and methods papers. *Part B: Reviews* and *Part C: Methods* will each publish 6 issues per year, in addition to the 12 issues of *Tissue Engineering, Part A*, for a total of 24 issues. *Tissue Engineering* (Part A) has traditionally focused on hypothesis-driven scientific reports. The *Reviews* and *Methods* journals enable the flagship *Tissue Engineering* to bring these valuable papers to the readership on a much larger scale. As the Official publication of TERMIS, Mary Ann Liebert, Inc., publishers is pleased to offer Members a special print subscription price to *Tissue Engineering, Parts A, B & C* to supplement their online access.

Special prices for TERMIS members to upgrade to a PRINT subscription:

**Print: \$249.00 US & Canada; \$309.00 outside US**

(Online Journal content is included with membership and available through TERMIS website)

***Tissue Engineering, Part A***

Co-Editors: Antonios G. Mikos and Peter C. Johnson

The flagship journal provides a fundamental understanding of structure-function relationships in normal and pathologic tissues with the ultimate goal of developing biological substitutes. The Journal brings together scientific and medical experts in the fields of biomedical engineering, biomaterials science, molecular and cell biology, genetic engineering, and surgery to present and discuss advances in this emerging field.

***Tissue Engineering, Part B, Reviews***

Co-Editors: John P. Fisher, Antonios G. Mikos, and Peter C. Johnson

This journal meets the urgent need for high-quality review papers due to the rapid expansion of the field. The Journal presents critical discussions, analyses, and concise summaries of research in different aspects of the field to assess where we are now and future directions.

***Tissue Engineering, Part C, Methods***

Co-Editors: John A. Jansen, Antonios G. Mikos, and Peter C. Johnson

This journal presents procedures and protocols that will be adopted by the tissue engineering community as the research is translated into clinical applications. Authoritative papers will bring consistency to the research methods employed and help the field grow and mature.

### Regenerative Medicine Online Package

The publisher also offers a special Online subscription package that includes *Tissue Engineering, Parts A, B, & C*, as well as Cellular Reprogramming (formerly *Cloning and Stem Cells*), *Stem Cells and Development*, and *Rejuvenation Research* for \$449.00. If you are interested, please check the corresponding box that is included within the TERMIS online membership form.

### Free Online Access to the Journal, *Tissue Engineering* - For Members Only!

[Click here to login and access the journal online.](#)

### Encourage Your Institution to Subscribe to *Tissue Engineering*

If your institution does not currently subscribe to the journal, *Tissue Engineering, Parts A, B, & C*, we ask that you please complete the library recommendation form and fax to your institution's librarian encouraging them to subscribe to the journal today.

[Library Recommendation Form](#)

## Upcoming Conferences Endorsed by TERMIS

### July 2010

- [1st INTERNATIONAL CONFERENCE ON REGENERATIVE ORTHOPAEDICS](#)  
Conference Date: 02 July 2010  
Conference Location: Zagreb, Croatia  
Organized by: Croatian Academy of Sciences and Arts, The Department of Medical Sciences
- [3rd Annual Business Education Course BEC 2010](#)  
"The Business of Regenerative Medicine: From Stem Cells to the Market Place"  
Course Dates: July 12-15, 2010  
Course Location: Cleveland, Ohio
- [REMEDI 2010](#)  
Conference Dates: 15-18 July 2010  
Conference Location: Iasi, Romania  
Conference Chair: Luminita Simion, MD

## August 2010

- [2nd International Conference on Cellular and Molecular Bioengineering \(ICCMB2\)](#)  
Conference Dates: 2-4 August 2010  
Conference Location: Singapore  
Abstract Deadline: 30 April 2010
- [Advances in Tissue Engineering Short Course](#)  
Short Course Dates: August 11-14, 2010  
Short Course Location: Rice University, Houston, TX  
Short Course Director: Antonios G. Mikos

## September 2010

- [BIOSPINE 3 - 3rd World Congress on Biotechnologies for Spinal Surgery](#)  
Conference Dates: September 1-4, 2010  
Conference Location: Amsterdam, The Netherlands
- [ISCT-EU 2010 2nd Regional Meeting](#)  
Meeting Dates: 11-14 September 2010  
Meeting Location: Belgirate, Italy  
Meeting Chair: Chair: Ineke Slaper-Cortenbach, Utrecht, The Netherlands
- [Stem Cells USA & Regenerative Medicine Congress 2010](#)  
Congress Dates: September 13-15, 2010  
Congress Location: Philadelphia, PA
- [TERMIS-AP: Sydney, Australia](#)  
Conference Dates: 15-17 September 2010  
Conference Location: Sheraton on the Park, Sydney  
Meeting Chair: A/Prof. Geoffrey McKellar

## October 2010

- [4th International Conference on Biofabrication](#)  
Conference Dates: October 4-6, 2010  
Conference Location: Drexel University  
Co-organizers: Prof. Wei Sun and Prof. Gabor Forgacs
- [2010 World Stem Cell Summit](#)  
Summit Dates: October 4-6, 2010  
Summit Location: Detroit Marriott Renaissance Center, Detroit, MI, USA
- [bone-tec 2010 - International Bone-Tissue-Engineering Congress](#)  
Congress Dates: 7 – 10 October, 2010  
Congress Location: Hannover, Germany  
The deadline for abstract submission has been extended: 15 May 2010
- [BioStar 2010](#)  
4th Congress on Regenerative Biology and Medicine  
Congress Dates: October 13-15, 2010  
Congress Location: Stuttgart, Germany

Congress Organizer: Prof. Dr. Claus D. Claussen

- [ASMB 2010 Biennial Meeting](#)  
Conference Dates: October 24-27, 2010  
Conference Location: Marion Hotel, Charleston, SC  
Organizer: Jean Schwarzbauer, Princeton University  
Keynote: Elaine Fuchs, Rockefeller University
- [Fraunhofer Life Science Symposium Leipzig 2010](#)  
Symposium Dates: October 29-30, 2010  
Symposium Location: Leipzig, Germany  
President: Professor Frank Emmrich  
Themes: „Stem Cells for Immunotherapy, Immune Disease and Disorders“

#### **November 2010**

- [Biophysical stimuli and mass transport for tissue development](#)  
"Biophysical stimuli and mass transport for tissue development; implications for in vitro model systems"  
Symposium Dates: 18 and 19 November 2010  
Conference Location: the Netherlands  
This symposium is organized by the Dutch "Translational excellence in Regenerative Medicine" (TeRM Smart Mix) consortium (see [www.TeRM.nu](http://www.TeRM.nu)).

#### **December 2010**

- [TERMIS-NA 2010: Orlando, Florida](#)  
Conference Dates: December 5-8, 2010  
Conference Location: the Hilton in the Walt Disney World Resort  
Conference Chair: Anthony Atala, MD  
Scientific Chair: James Yoo, MD, PhD  
Hosted by: Wake Forest Institute for Regenerative Medicine

#### **June 2011**

- [TERMIS-EU 2011: Granada, Spain](#)  
Conference Dates: 7-10 June 2011  
Conference Location: Granada Exhibition and Conference Centre  
Conference Chair: Antonio Campos Muñoz, MD, PhD  
To request further information, please send an email to [acampos@ugr.es](mailto:acampos@ugr.es).

#### **July 2011**

- [TERMIS-AP 2011: Singapore](#)  
Conference Dates: 20 - 22 July 2011  
Meeting Chair: Prof. James Goh  
More information to follow.



## **December 2011**

- [TERMIS-NA 2011: Houston, Texas](#)  
Meeting Chairs: Antonios Mikos, PhD and Jennifer West, PhD  
More information to follow.

## **September 2012**

- [2012 TERMIS World Congress - Vienna, Austria](#)  
Conference Dates: September 5-8, 2012  
Conference Location: Hofburg Congress Center in Vienna, Austria  
Conference Chair: Heinz Redl, PhD  
To request further information, please send an email to [Office@lbitrauma.org](mailto:Office@lbitrauma.org).