

interLink

Linking the international community of TERMIS



termis

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Letter from the Editor

Dear TERMIS Members, friends and colleagues,

On my return this weekend from London to Brisbane, as part of the in flight entertainment on the plane, there was a showing of a concert performed by Sting and his band together with the Berlin Philharmonics. I was taken away by admiration for the perfect symbioses of music and lyrics performed by a rock band a philharmonic orchestra. What a challenge that must have been for Sting and the conductor to perfect the interface between these two so different musical disciplines!

As the camera was moving systematically between Sting, his band, the conductor and the different members of the orchestra, I could not stop thinking about a possible analogy to our field; we also

have the challenge to find a symbiosis between engineering, science and medicine to create tissues, which can benefit patients.

On that philosophical note, I am looking forward to seeing more and more of these symbioses sets you have put on stage in your research projects at our annual chapter meetings. We will start with the TERMIS-EU meeting in Granada in June followed by the TERMIS-AP meeting in Singapore in August and we will finish the year with the TERMIS NA meeting in December in Houston.

Sincerely yours,

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

Edited and Compiled By:

Dietmar W. Hutmacher, PhD, MBA
Queensland University of Technology

Sarah Wilburn

TERMIS Administrator

2011 TERMIS Conferences

TERMIS-EU: Granada

7-10 June 2011

[Register Today!](#)

TERMIS-AP: Singapore

3-5 August 2011

[Submit Your Abstract Today!](#)

www.termis.org

TERMIS-NA: Houston

NEW DATES:

December 11-14, 2011



Latest Developments from the Asian-Pacific Chapter

News from Korea

BIN fusion symposium on Multi-Functional Materials and Structures 2010 (MFMS) titled with Bioinspired Materials for the 21st Century held Sept 14th 2010 at 4F Grand Meeting Room, Provisional Government Building at Chonbuk, Jeonju Korea. This symposium had been organized by Profs Robert Nerem and Hai Bang Lee and supported by World Class University (WCU) Program sponsored by Korean Ministry of Education, Science and Technology and Chonbuk Natl Univ., Korea. Five foreign speakers were invited as Prof. Jons Hilborn (Upssala Univ., Sweden), Prof. Mime Egami (Tokyo Women's Medical Univ. Japan), Prof. Robert Nerem (Georgia Tech., USA & WCU Program Chonbuk National Univ.), Prof. Andres Garcia (Georgia Tech., USA), and Prof. Yasuhiro Tabata (Kyoto Univ., Japan). Six domestic speakers were invited as Prof. Byung Hyun Min (Ajou Univ.), Prof. Dong-Wook Kim (Yonsei Univ.), Prof. Young Sook Son (Kyung Hee Univ.), Prof. Soo Hyun Kim (KIST), Prof. Taek Rim Yoon (Chonnam Natl Univ.)

and Prof. Hai Bang Lee (KRICT/Ajou Univ.). Around 250 participants were registered.



News from India

New Visions for Biomaterials and Regenerative Medicine Workshop

New Visions for Biomaterials and Regenerative Medicine to be held at Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, KERALA, INDIA

16th and 17th March 2011

Sponsored by TERMIS, Biomaterials and Government of India

Organized by Professor David Williams, FREng *Editor-in-Chief, Biomaterials* resident-Elect, TERMIS

Rationale

Professor David Williams has been appointed as a Visiting Professor at the Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, India. He has travelled to, and lectured in, India for the last 30 years. In 2010 he was elected as President-elect of TERMIS and will take up the role of President in 2013, when he will

have responsibility for global developments in tissue engineering and regenerative medicine. He is also Editor-in-Chief of the journal *Biomaterials*.

Although some very good work is performed in India in biomaterials science and tissue engineering, scientists from India are currently under-represented at International conferences and publish less frequently in the major journals than many competing countries. It is proposed, therefore that, during his March 2011 visit to Thiruvananthapuram, Professor Williams will organize and deliver a Workshop that will be devoted to instructional presentations on the directions that biomaterials science are currently taking, and to guidance on research and publication strategies that will help Indian scientists in this very competitive area.

Practical Details

The workshop will commence at mid-day on 16th March 2011 and the afternoon will be devoted to sessions on research strategies and publishing procedures. This will be delivered by Professor Williams and Peggy O'Donnell, the Managing Editor of *Biomaterials*.

On 17th March there will be a full day workshop with lectures and presentations given on the state-of-the-art and future directions of tissue engineering and regenerative medicine research. Approximately one-third of the presentations will be given by Professor Williams, two-third by leading Indian scientists in this field; Prof. SC Kundu, IIT Kharagpur; Dr. Prabha D Nair, Dr. TV Kumari, Dr. Lissy Krishnan and Dr. Annie John of SCTIMST.

The workshop will be held at the Achutha Menon Centre Auditorium, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Medical College



BIOMEDICAL TECHNOLOGY

News from India Continued...

Campus, Thiruvananthapuram. There will be no registration fee and attendance is encouraged from staff and students of any recognized Indian institution.

Endorsed by Society for Biomaterials and Artificial Organs, India (SBAOI) and Society for Tissue Engineering and Regenerative Medicine, India ().

Coordinator (contact for details)

Dr. Chandra P. Sharma, FBSE

Senior Scientist G & Assoc. Dean-PhD Programme,

Sree Chitra Tirunal Institute for Medical Sciences & Technology (SCTIMST)

Head, Biosurface Technology Division,

Ex-Assoc. Head, Biomedical Technology Wing, SCTIMST (<http://www.sctimst.ac.in>)

Thiruvananthapuram 695012, India

The [workshop proceedings](#) can be viewed via the TERMIS website.

News from Malaysia

In 2010, the Tissue Engineering Society of Malaysia (TESMA) had conducted a series of short seminars as part of the Society's Education Outreach Programme. They were opened to both members and non-members without incurring any charges. The highlight of the year was the holding of the 3rd Malaysia Tissue Engineering and Regenerative Medicine Scientific Meeting (3rd MTERMS), a biannual national event for TESMA. The following is a brief report of these activities.

The 1st short seminar was held in March. It was co-organized with the Universiti Kebangsaan Malaysia (UKM) Medical Centre and attended by 119 participants. The seminar featured four speakers, namely, Dr Ying Yang from Keele University, UK - 'Monitoring cellular activity of tissue engineering constructs via nondestructive modalities', Dr Shiplu Roy Chowdhury from UKM Tissue Engineering Centre - 'Culture process design to

expand human skeletal myoblasts for clinical applications', Dr Then Kong Yong from UKM Medical Centre - 'Corneal tissue engineering', and Dr Bakiah Shaharuddin from the National Science University - 'Corneal tissue engineering and transplantation-a multicentre research experience'.

The 2nd short seminar was held in June and was co-organized with the Medical Faculty of Universiti Putra Malaysia. In this seminar, TESMA President, Prof Dr Fauziah Othman delivered her talk on Micro-Imaging of Tissue Engineered Organs followed by Dr Syahrilnizam Abdullah who talked on Gene therapy 101: A Gene Odyssey. The seminar was attended by 80 participants. TESMA AGM was also held on the same day.

The 3rd Malaysia Tissue Engineering & Regenerative Medicine Scientific Meeting (MTERMS) was jointly organized by TESMA, Universiti Putra Malaysia, Malaysia Nuclear

Agency and Universiti Kebangsaan Malaysia on the 13-14 October 2010 with the theme: Health Regeneration Towards Wealth Creation. It was successfully conducted with participants coming from various institutes and private companies, which included 96 registered participants, 20 invited speakers together with 34 organizing committee members.

The opening ceremony commenced with welcoming address by the President of TESMA, Prof. Fauziah Othman followed by official opening by the Dean of Faculty of Medicine & Health Sciences, UPM, Prof. Dr. Norliah Othman. The two-day meeting was divided into two plenary talks and seven symposia which were delivered by four international and 16 national invited speakers and a lunch talk by Intran Technologies Sdn Bhd on the construction of cGMP facility for cell & tissue processing.

Continued on next page...



*Welcoming
remarks from the
TESMA
President, Prof.
Fauziah of UPM,
Malaysia*

News from Malaysia Continued...

The first Plenary talk was delivered by Prof. Dr. Alicia El Haj of Keele University, UK. Her talk was on designing new strategies for delivering cell therapies into clinic. The first symposium featuring Stem Cell Science had two invited speakers from abroad- Dr John Mason from University of Edinburgh, UK and Associate Prof. Dr Samuel Tay Sam Wah from National University of Singapore who talked on Foxg1 as a key regulator of neural fate, and mesenchymal/neural stem cells as potential candidates for transplantation in animal models of Parkinson's disease, respectively. The session continued with four oral presentations from selected full abstracts on various stem cell studies including human hair follicle, rat amniotic fluid and human mesenchymal stem cells.

Symposium II on Biomaterials, Bioreactors & Biomanufacturing featured two invited speakers- Prof. Dr. Ahman Fauzi Mohd Noor from Universiti Sains Malaysia who talked on biomaterial for clinical applications and Assoc Prof Dr. Iis Sopyan from International Islamic University Malaysia who talked on manganese doping on biphasic calcium phosphate ceramics for mechanical improvement. Symposium III, was on nanotechnology, computer modelling & imaging. The session had two invited speakers, Prof. Dr. Alicia El Haj of Keele University talked on magnetic nanoparticle-based tagging of mechanosensors for bone tissue engineering, and Assoc Prof Dr. Enamul Hoque who presented his findings on rapid prototyping technique in developing 3D tissue engineering scaffold. Two other free papers followed suit.

The second day of the meeting began with poster presentation and judging. 23 posters were evaluated by 12 judges and three were awarded the best posters award. Plenary II was delivered by Prof. Ruszymah Idrus, who shared her experience on the journey towards clinical trial in cell & tissue therapy in Malaysia. Symposium IV themed Tissue Engineering had three invited speakers, Prof. Dr. Tunku Kamarul Zaman Tunku Zainol Abidin from Universiti Malaya who talked on mesenchymal stem cell scale up for cartilage engineering followed by Dr Norzana Abdul Ghafar

from Universiti Kebangsaan Malaysia who presented her findings on tissue engineering of the cornea in rabbit model, and finally, Prof. Marhaen Hardjo from Universiti Kebangsaan Malaysia who discussed the issue of isolating clonal mesenchymal stem cell line from rat bone marrow and its application for preventing acute fatal and chronic liver failure. Another five free papers were presented.

Symposium V on gene and herbal therapy had four invited speakers and two free papers. In this session, Dr Syahrilnizam Abdullah from Universiti Putra Malaysia talked on transgene silencing in HSCs following lentiviral gene delivery, and Assoc. Prof. Dr Ezzarul Hoque Chowdhury from International Medical University elaborated on biofunctional nanoparticles for transfection of embryonic stem cells, while Assoc. Prof Dr Nisaudah Radenahmad from Prince of Songkla University Thailand presented novel findings on young coconut juice, a potential therapeutic agent for postmenopausal women, and finally Prof Asmah Rahmat from Universiti Putra Malaysia discussed on *Strobilanthes crispus*: a potential herb as anticancer for liver and breast.

Symposium VI on clinical translations had three invited speakers; Dr. Moniruddin Chowdhury from Universiti Kebangsaan Malaysia who talked on autologous bone marrow mononuclear cell implantation, Assoc. Prof Dr Ahmad Hafiz Zulkifly from International Islamic University of Malaysia who discussed on the challenges and results of clinical trial I and II for testing locally-fabricated bioceramic in orthopaedic applications, and finally Assoc. Prof Dr Shanti Ganabadi from Universiti Putra Malaysia who talked on the journey of stem cells in veterinary practice.

The final symposium was on regulations, ethics and commercialization. Three speakers from the Malaysian government bodies were invited. First was Dr Zubaidah Zakaria from Institute of Medical Research & National Stem Cell Ethics Board who presented on the current role of stem cell ethics board and its regulatory pathway and challenges. This was followed by Puan Fazillahnor Ab Rahim from National Pharmaceutical Control Bureau who talked on why and how to obtain a cGMP licence for cell & tissue processing facilities, and finally Mr Jay Padasian from Malaysian Biotechnology Corporation who spoke on pathway towards commercialization. The meeting ended in high spirits.



TERMIS-AP Election of Council Members

Members of the TERMIS-AP Chapter have an opportunity to elect new officers to the Asian-Pacific Council.

ONLINE VOTING is now OPEN!

All TERMIS-AP members are encouraged to cast your vote for the seven (7) open positions on the TERMIS-AP Council.

To cast your vote today, please visit
<http://termis.org/vote2011ap.php>

The Final Election Date has been set for Wednesday, April 6, 2011; all voting must be completed by this date through

the [online voting system](#).

The online form will instruct you as follows:

1. Enter the email address that you provided upon applying for membership (this will confirm that you are a registered member and will enable you to cast your vote);
2. cast your vote for seven (7) candidates to fill the open positions on the AP Council (ONLY members of the AP Chapter can cast a vote.)

The candidates for the seven (7) open positions on the TERMIS-Asia-Pacific Council are:

Guoping Chen ([bio](#))
 Ming-Huei Cheng ([bio](#))
 Mime Egami ([bio](#))
 Yan Jin ([bio](#))
 Soo Hyun Kim ([bio](#))
 Akio Kishida ([bio](#))
 Subhas C. Kundu ([bio](#))
 Seung Jin Lee ([bio](#))
 Jeong Ok (Grace) Lim ([bio](#))
 Hong Wei Ouyang ([bio](#))
 Jung-Keug Park ([bio](#))
 Michael Raghunath ([bio](#))
 Tatsuya Shimizu ([bio](#))
 Jerome Werkmeister ([bio](#))
 Evelyn Yim ([bio](#))



[VOTE TODAY!](#) (Online voting closes on April 6, 2011)

Latest Developments from the European Chapter

Solicitation of Proposals to Host the 2014 TERMIS-EU Conference

The TERMIS-EU Council would like to announce the solicitation of proposals to host the TERMIS-EU 2014 Chapter Meeting.

If you are interested in hosting the 2014 TERMIS-EU Chapter Meeting, please submit your request to [Sarah Wilburn](#). You will be provided with a meeting host form that asks detailed questions about the meeting organizers, location/venue, program, and meeting financials. When proposals are submitted, they are reviewed by the respective chapter council and an official vote is conducted.

The deadline for submitting proposals for the 2014 TERMIS-EU Chapter Meeting is Friday, 6 May 2011.

**Note that all financial responsibility for the meeting will be underwritten by the

meeting host. TERMIS will assist with the meeting by creating the meeting website; creating an ad to promote the meeting that will be included in the journal, *Tissue Engineering*; and will provide meeting updates to the TERMIS membership.

To request a meeting host application form or a sample meeting contract, please contact [Sarah Wilburn](#).

There is still time to register for the 2011 TERMIS-EU Granada conference.

*We look forward
to seeing you in
Granada!*

7-10 June 2011

www.termis.org/eu2011



Latest Developments from the North American Chapter

Overview of the 2010 TERMIS-NA Orlando Conference

Wake Forest Institute for Regenerative Medicine Hosts Successful TERMIS-NA Annual Conference

More than 800 people attended the TERMIS North America 2010 annual conference December in Orlando. The annual meeting is the premier networking and educational event for the regenerative medicine and tissue engineering industry.

This year's meeting was hosted by Wake Forest University, with **Dr. Anthony Atala, Director, Wake Forest Institute for Regenerative Medicine**, as the General Chairperson and **Dr. James Yoo**, Associate Director and Chief Scientific Officer, serving as the Scientific Chair. The main theme, "Where Discovery Meets Innovation", enabled a dynamic and informative format covering a key topics with the field of tissue engineering, biomaterials, stem cells and regenerative medicine.

Keynote lecturers included: **Ronald D.G. McKay, PhD**, National Institutes of Health; **Michael L. Shuler, PhD**, Cornell University School of Chemical and Biomolecular Engineering; and **Teruo Okano, PhD**, Tokyo Women's Medical University.

These keynote lectures, together with presentations from invited experts and presentations from junior and new investigators, and the conference agenda, offer new insights from the thought leaders in tissue engineering and regenerative medicine.

Altogether, the conference has 150 oral presentations, 450 poster presentations, and over 40 sponsors and exhibitors, an all-time record for this event! The meeting drew attendees from almost every state, and received registrations from international participants from over 32 countries. The audience included a mix of academicians, corporate professionals, and government representatives, with CEOs, principal investigators, post-doctoral fellows, pre-doctoral students, and other researchers.

The conference provided an ideal setting for academic networking, encouraging the formation of new exchanges and collaborations. Research presentations have continued



to increase in this young field, and the meeting was full of poster and platform presentations, deliberately positioned within the exhibit areas for increased exposure and community interaction.

Several new initiatives were launched to highlight the significant research being made by TERMIS-NA members. TERMIS-NA has established several award mechanisms to recognize outstanding scientists in the field, including the **Lifetime Achievement Award**, awarded to Dr. Arnold Caplan; the **Mary Ann Liebert, Inc. Outstanding Student Award**, awarded to Dr. Jim Kretlow and the **Young Investigator Award** which was given to Dr. Ali Khademhosseini. In addition, **Dr. Bryan Brown** and **Dr. James Moon** were presented with the 3rd annual **Wake Forest Institute for Regenerative Medicine Young Investigator Awards** to recognize

outstanding achievements.

Julie Steen, a student from Wake Forest, chaired the committee involved in developing programming for the Student and Young Investigator Section of North America (SYIS-NA.) The role of SYIS is to assist and encourage young researchers to network and interact with experts in the field and to foster personal professional development.

A new one-day specialty workshop on **Bone Tissue Engineering and Regeneration: From Discovery to the Clinic** was organized by **Regis O'Keefe**, University of Rochester, and **Jeremy Mao**, Columbia University. Another new half-day workshop on **Hyaluronic Acid Biomaterials for Cell Therapy**, was organized by **Glenn Prestwich**, University of Utah. These specialty workshops, sponsored by the Society's conference producer, Forecast Technology Group,

were held in an effort to offer a more in-depth educational review of specialty topic areas. To conclude the conference, a **grant writing workshop** was also organized to help experienced and young investigators understand how to write successful NIH grant applications.

Tissue engineering and regenerative medicine have become critical scientific disciplines. The TERMIS-NA meeting continues to grow and mature every year, and it has now become the major venue for the presentation of basic research, and its clinical application. After 10 years, this meeting continues to foster interactions among basic scientists engaged in discovery and development, translational researchers who bring scientific discoveries to the clinical forefront, clinicians, and those engaged with funding,

For this year's TERMIS-NA annual conference: **"Scaffolds in Tissue Engineering: Bridging Matrix Biology and Biomaterials Science."** The event will be hosted by Rice University in Houston, Texas. The co-chairs of the 2011 TERMIS-NA Conference are Dr. Antonios Mikos, the Louis Calder Professor of Bioengineering and Chemical and Biomolecular Engineering, Director of John W. Cox Laboratory of Biomedical Engineering, and the Director of Center for Excellence in Tissue Engineering and Dr. Jennifer West, Isabel C. Cameron Professor of Bioengineering, Professor in Chemical and Biomolecular Engineering, Director, Institute of Biosciences and Bioengineering. Dr. West will also be serving as the scientific advisory committee co-chair along with K. Jane Grande-Allen, Ph.D., Associate Professor,

Department of Bioengineering, Rice University.

For more information, contact **Anita Caufield**, Executive Producer, for TERMIS-NA. Updates on the 2011 TERMIS-NA conference in Houston will be provided regularly on the conference website, www.termis.org/na2011.



WAKE FOREST
UNIVERSITY

SCHOOL of MEDICINE

Institute for Regenerative Medicine

Announcement: 2011 TERMIS-NA Awards Program



Nomination packages for the 2011 TERMIS-NA Awards Program are now being accepted. The complete list of awards is available [online](#). **Nomination packages for any TERMIS-NA award should be submitted to Sarah Wilburn by Friday, June 3, 2011.** The criteria for submitting a nomination must be followed in order for the nomination to be accepted. Please visit the website for a complete list of awards and the submission details.

SAVE THE **NEW** DATES...

Join us in Houston, TX for

TERMIS-North America 2011 CONFERENCE AND EXPOSITION

*Scaffolds in Tissue Engineering:
Bridging Matrix Biology and
Biomaterials Science*

December 11-14, 2011

**Hilton Americas-Houston
Houston, Texas**

**Hosted by:
Conference Co-Chairs:**



K. Jane Grande-Allen, Ph.D.

Local Arrangements Chair:

F. Kurtis Kasper, Ph.D.

Featured Keynote Speakers:

Kristi S. Anseth, Ph.D.,
University of Colorado

**Christopher S. Chen, M.D.,
Ph.D., University of
Pennsylvania**

Molly S. Shoichet, Ph.D.,
University of Toronto

**We look forward to hosting you
in Houston!**

The Tissue Engineering and Regenerative Medicine International Society (TERMIS) will partner with the Institute for Bioengineering and Bioscience (IBB) at Georgia Tech in 2013 by hosting its annual North American Conference in Atlanta.

Two members of IBB's faculty have been designated to head the 2013 TERMIS conference. The conference chair will be Robert E. Guldberg, PhD, the director of the Parker H. Petit Institute for Bioengineering and Bioscience and professor in Mechanical Engineering and the program chair will be Todd McDevitt, PhD, associate professor in Biomedical Engineering and the director of the Stem Cell Engineering Center at Georgia Tech.

"We are honored to be selected and look forward to putting on a great meeting," Guldberg said.

TERMIS brings together an international community to promote discussion of the scientific challenges and

therapeutic benefits for the development and application of the tissue engineering and regenerative medicine fields. TERMIS' mission is to promote worldwide science and technology advancement and education in these fields. It does so through regular worldwide conferences, the Tissue Engineering journal that it endorses as well as quarterly newsletters and other correspondences with its members.

TERMIS has been an evolving over the last decade. Its roots began in 2001 as an annual workshop called "Tissue Growth Engineering" that was organized by the Pittsburg Tissue Engineering Initiative. In 2004, this small workshop evolved into the larger, national meeting called Regenerate. In 2006, the Regenerate World Congress was held in Pittsburgh where the meeting had grown significantly and had a large international following.

By the following year, the

society was rebranded into TERMIS to encompass its international presence. The society has continued to grow and now has chapters in Europe and Asia.

TERMIS is open to anyone engaged in research in the tissue engineering or regenerative medicine arenas.

The 2011 the TERMIS North American conference will be held in Houston, Texas and in 2012 the entire society will come together for the TERMIS World Congress in Vienna, Austria.

SYIS-NA: New Officers

We would like to welcome three new officers of the SYIS-NA.

Patrick Spicer has taken on the role of the Meeting & Fundraising Chair.

Christopher Bashur is the new Secretary for the SYIS-NA.

Rebecca Dahlin is serving as the Treasurer.

*Art Design Competition
open to all students and post
docs interested in designing
artwork for the 2011
TERMIS-NA conference.
The deadline to submit
artwork is May 1, 2011.
Email [Gina Saxon](#)*

Formation of Thematic Groups

The Governing Board of TERMIS has approved a recommendation that Thematic Groups of the Society should be created. According to its mission, TERMIS brings together the international community of person engaged in the fields of tissue engineering and regenerative medicine and promotes education and research within these fields, serving as an international forum to promote the informed discussion of challenges and therapeutic benefits of the application of these technologies of regenerative medicine.

These aims are mainly achieved through the annual meetings of the three Continental Chapters, the TERMIS World Congress Meeting held every three years and the endorsement of the journal *Tissue Engineering*. TERMIS is well advanced in the integration of regenerative medicine at the geographical level and now intends to address this integration at the thematic level. Tissue engineering and regenerative medicine involve a wide variety of basic scientific and engineering disciplines that have to be combined with clinical disciplines and the practical aspects of translational medicine. Thematic Groups will now be introduced, in a phased manner, which are globally based rather than geographically oriented. The incorporation of Thematic Groups into the general structure of TERMIS will be permissive and not mandatory and will be based on the submission of proposals to the Governing Board and their approval by the Board.



Procedures for Establishing Thematic Groups

Outline Submissions: An outline proposal should be made to TERMIS which will include the title of the theme, the names of the three proposers, all of whom are members of TERMIS, and one of whom will be the Chair of the Group, and a single paragraph statement of the rationale for the theme and its inclusions as a TERMIS Thematic Group. The outline submission should be communicated to the TERMIS administrator and will be reviewed by the TERMIS President and President-Elect. If it is agreed that the proposal represents a theme that is relevant to TERMIS, the proposed Thematic Group Chair would be encouraged to submit a full proposal.

Next Steps Upon Approval of Outline Submission

Full Proposal: The full proposal should contain a two-page statement of the scientific and clinical rationale for the theme and an indication of the proposed activities. It should include the names of proposed office holders, specifically Chair, Vice Chair and Secretary, and a list of ten additional scientists and/or clinicians, who need not be current members of TERMIS, who endorse the formation of the Group. These should have a broad geographical spread and preferably involve all three Continental areas.

The full proposal, which have to be submitted within three months of receiving the decision to proceed, should be communicated to the TERMIS administrator, who will distribute this to members of the Governing Board.

The process of submissions may take place at any time after March 1st, 2011; there will be no submission closure dates and each proposal will be dealt with as they are received. If two or more proposals dealing with the same or similar themes, are received, the individual proposers may be invited to discuss possible collaboration/consolidation.

David Williams

President-Elect, TERMIS

List of Potential Themes:

- *Developmental Biology*
- *Scaffolds & Matrix Biomaterials*
- *Bioprinting/Biofabrication/ Bioreactors/Bioprocessing*
- *Inflammation & Immunity*
- *Imaging*
- *Cell Sourcing & Manipulation*
- *Pre-clinical Protocols*
- *Clinical Trials*
- *Infrastructure—regulatory, health economics, ethics*

1st International Symposium of Materials in Regenerative Medicine

In 2010, National Health Research Institutes (NHRI) had conducted the 1st international symposium of materials in regenerative medicine (ISOMRM) as the leading case in Taiwan. 2010 ISOMRM was as an inter- and multidisciplinary platform that brings people together share research experiences & scientific findings. It's the beginning and could be a biannual international event in Taiwan. The following is a brief report of these activities.

On Nov 3, the opening ceremony was commenced with welcoming address by the President of 2010 ISOMRM, Prof. Feng-Huei Lin, followed by official opening by the President of NHRI, Prof. Kenneth K. Wu. The keynote speech I was started immediately after the ceremony. Prof D. F. Williams - Editor in Chief of Biomaterials gave a speech of "On the nature of biomaterials" to conduct our view in this filed. His talk was on designing strategies for biomaterials research. The presentation of Dr. Guoping Chen - National Institute for Materials Science (Japan) showed the design and fabrication of biomimetic and hybrid scaffolds for tissue engineering with excellent

results from bench to clinic. The three-day symposium was scheduled in one hr keynote speech in the morning and afternoon individually. The symposium featured keynote speakers, namely, Prof. V. Renugopalakrishnan from Harvard Medical School who talk in the topic of "Convergence of Nanoscience, Life sciences, Materials Science in Ultrasensitive Protein-Based Amperometric Sensors; Dr. Geoffrey McKELLAR - Westmead Hospital (Australia) talked on tissue engineering on maxillofacial reconstruction.

Prof. Ray Jui-Fang Tsai - Taipei Eye Center (Taiwan) shared his experience on the journey towards clinical trial in corneal tissue engineering. A talk of stem cells science in molecular imaging and therapeutic implications was conducted by Prof. Win-Ping Deng - Taipei Medical University (Taiwan). Prof. Hai Bang Lee from Ajou University (Korea) talked on "Polymeric Biomaterials for Tissue Engineering"; Prof. Young Ha KIM - Gwangju Institute of Science and Technology (Korea) discussed the effect of mechano-

stimulating tissue engineering.

Four parallel sessions were held after the keynote speech with category in 12 topics: Artificial Organs, Bioceramics, Biopolymers, Bionanotechnology, Biosensor, Cellular Engineering, Drug Delivery System, Gene Delivery System, Hyperthermia, Polymers in Medicine, Stem Cells and Tissue Engineering. Each session was continued with one to three invited speaks

and three oral presentations from selected full abstracts. Twenty-five participants were chosen to present in the Yang Investigator Award (YIA) competition. Each had fifteen mines presentation to shown their results, six winners from Hong Kong, Japan and Taiwan were chosen finally. One hundred and thirty posts were exhibited in the hallway for researches to exchange their study during the symposium.

Each topic was judged by three judges and ten posts were elected as the best post award.

Three workshops were held coincidence with the symposium. First is the Tissue Engineering Regulation Workshop, which was held by a government department in Taiwan, Center for Drug Evaluation (CDE), to introduce the regulation in Taiwan for development a tissue engineering product. The other

two workshops, SPR and Nanoink, were held by two private companies to introduce the equipment application in the biomaterials and nanotechnology research. There's two special thematic event in 2010 ISOMRM, one was "Meet with Author", Prof D.F. Williams provide the broaden mind in the research of biomaterials science and technology; the other was

"Students Mentor", questions from young generation were solved by the senior and a great discussion were presented.

At the closing ceremony, winners of YIA and poster award were awarded by symposium president. In conclusion, 2010 ISOMRM was successfully conducted with participants coming from various institutes and universities which included

360 registered participants, 40 invited speakers together from 20 countries; it was ended in high spirits. We sure this symposium had reached its main theme "The Prospects of Materials on Health Care Technology". The 2nd ISOMRM will be held in Taipei Medical University, Taipei, Taiwan in 2012. We look forward to see you in this coming year.



Prof. Feng-Huei Lin





Tissue Engineering, published by Mary Ann Liebert, Inc. is the official journal of TERMIS

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



Regenerative Medicine Jobs

RegenerativeMedicineJobs.com is a specialized online job board focused on recruiting for positions in the rapidly growing field of regenerative medicine. The site is simple to use and focused in scope but this is more than just another website. RMJ has developed a sophisticated system designed to leverage our extensive network in RM to ensure every post gets maximum attention

and attracts the best candidates.

Traffic is pulled to the site and job postings are pushed to a targeted audience by focused social media and marketing campaigns. This is the latest way to recruit for any position in a regenerative medicine department, division, or company. This is regenerative medicine recruiting with a focus.

All TERMIS members are entitled to a 25% discount for posting positions on RegenerativeMedicineJobs.com.

Current Employment Opportunities
TERMIS members still have the benefit of posting current job openings on the TERMIS website free for 30 days.

3rd TERMIS World Congress 2012

“Tissue Engineering and Regenerative Medicine”

September 5 - 8, 2012 Vienna, Austria

www.termis.org/wc2012



Society for the
Advancement
of Research in Shock and
Tissue Engineering



Upcoming Meetings Endorsed by TERMIS

April 2011

[2011 Translational Regenerative Medicine Forum](#)

Forum Dates: April 6-8, 2011
Forum Location: Washington, DC

May 2011

[9th International Symposium on Frontiers in Biomedical Polymers](#)

Symposium Dates: 9-12 May 2011
Symposium Location: CS Madeira Atlantic Resort & Sea SPA in Funchal, Madeira

[CTTE 2011 Short Course](#)

Short Course Dates: May 16-19, 2011
Short Course Location: Case Western Reserve University, Cleveland, OH "Cell-Based Therapies and Tissue Engineering"
[CTTE 2011 Brochure](#)

[17th Annual ISCT Meeting](#)

Dates: May 18-21, 2011
Meeting Location: De Doelen Conference Centre Rotterdam, The Netherlands

[Vision Restoration: Regenerative Medicine in Ophthalmology](#)

Louis J. Fox Center for Vision Restoration of UPMC and the University of Pittsburgh Conference Dates: May 26-27, 2011
Conference Location: University Club at the University of Pittsburgh, Pittsburgh, PA

[4th International Conference on Tissue Engineering](#)

Conference Dates: May 31 - June 5, 2011
Conference Venue: Minoa Palace Conference Center
Conference Location: Chania, Crete, Greece

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

[1st Advanced Summer School - Interrogations at the Biointerface](#)

Summer School Dates: 20-24 June 2011
Theme: "Cancer/Regeneration Interface" Location: INEB/IPATIMUP/IBEC, Porto, Portugal

July 2011

[4th Annual Business Education Course](#)

Course Dates: July 11-14, 2011
Course Organizers: Dr. Arnold I Caplan
Course Location: Cleveland, OH
[BEC 2011 Brochure](#)

August 2011

[TERMIS-AP 2011: Singapore](#)

Conference Dates: 3 - 5 August 2011
Conference Location: Crophorne Waterfront Convention Centre
Conference Theme: "Rescuing the Patients" Meeting
Chair: Prof. James Goh
Scientific Chair: Prof. Michael Raghunath

[Rice University Short Course 2011](#)

Short Course Dates: August 10-13, 2011
Short Course Location: Rice University BioScience Research Collaborative Short Course Director: Dr. Antonios G. Mikos

September 2011

[ESB 2011](#)

Conference Dates: 4th-9th September 2011
Conference Location: Dublin, Ireland
Dr. Abhay Pandit, Conference Chair

October 2011

[4th Joint ESAO-IFAO Congress 2011](#)

Congress Dates: 9-12 October 2011
Congress Location: Porto, Portugal at the Porto Congress Centre - Alfândega

[bone-tec 2011](#)

Congress Dates: 12-15 October 2011
Congress Location: Hannover, Germany
Congress Chair: Dr. Karl-Heinz Schuckert, Head of Institute Indente

December 2011

[TERMIS-NA 2011: Houston, Texas](#)

Conference Dates: December 11-14, 2011
Conference Location: Hilton Americas-Houston
Conference Co-Chairs: Antonios G. Mikos, Ph.D. and Jennifer L. West, Ph.D.
Scientific Program Co-Chairs: Jennifer L. West, Ph.D. and K. Jane Grande-Allen, Ph.D.
Local Arrangements Chair: F. Kurtis Kasper, Ph.D.
Conference Theme:

Scaffolds in Tissue Engineering: Bridging Matrix Biology and Biomaterials Science

April 2012

[7th Symposium on Biologic](#)

[Scaffolds for Regenerative Medicine](#)

Symposium Dates: April 26-28, 2012
Symposium Location: The Silverado Resort, Napa Valley, CA
Symposium Organizer: Stephen F. Badylak, DVM, PhD, MD
Keynote Speaker: Mina J. Bissell

For more information, please contact: [Jocelyn L. Runyon](#)
Phone: +1 (412) 624-5253

September 2012

[2012 3rd 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 contact: [Dr. Heinz Redl](#)

June 2013

[2013 TERMIS-EU: Istanbul, Turkey](#)

Conference Dates: June 12-15, 2013
Conference Location: Istanbul, Turkey
Conference Chair: Erhan Pişkin, PhD

October 2013

[2013 TERMIS-AP: P. R. China](#)

Conference Dates: October 2013
Conference Chair: Yiliin Cao, MD, PhD

December 2013

[2013 TERMIS-NA: Atlanta, GA](#)

Conference Location: Atlanta, Georgia
Conference Chair: Robert E. Guldberg, PhD
Conference Program Chair: Todd C. McDevitt, PhD
More details to follow.

Would you like to have your meeting listed here? To learn more, contact [Sarah Wilburn](#).