



## **Message from the IADR DMG President**

Dear DMG Members,

It has been one year since I took the DMG presidency at the Seattle IADR meeting.

I have made new friends and realized how so many of us share the same interests and dedication to science and academia. The opportunities given to members from all over the world to gather and share science and camaraderie is clearly a strength that our organization should continue to cherish.

We are the largest scientific group in the IADR and we should aim for increasing our scientific group. There is much room for growth; over half of the presenters in the DMG scientific sessions are not members of the DMG.

Our current membership is close to 1376, 736 full members and 640 student members. Student members represent 46% of our total DMG membership. In order to maintain and raise the impact of Dental Materials and Biomaterials in Dental Research, we need to continue to foster our student members to provide a strong foundation as well as provide them with a voice to prepare our organization for the future.

The 2013-2014 has been another busy year for our group. In October, the DMG officially endowed the William Souder Award. This endowment has been planned for a couple of years and we are glad that it was made official.

This year I appointed a Constitution and Bylaws committee chaired by Paulo Cesar to review and update the DMG Constitution and Bylaws document. The revised version is expected to be shared with the members before the IADR business meeting in Cape Town where it will be open for discussion. Approval of the update document is likely to happen via electronic voting.

New initiatives have been discussed during the AADR council meeting. Among them, IADR headquarters is proposing a free membership for a scientific group/network with the general membership dues. This is likely to increase the

size of the DMG membership but we do not know at this point how it will affect the membership fees collection in the long-term. You can find the report of the 2014 AADR Council meeting on the DMG website (<http://www.dentalresearch.org/DMG/>).

The AADR Charlotte meeting was another successful event for our group. The Symposia and hand-on workshop were well attended. Some highlights included the innovative approaches from 5 research groups presenting their approach to develop novel polymer chemistry for resin composites. The lunch & learning sessions were sold out and ran smoothly. The poster sessions were well attended and interactive. Constructive discussions could be seen during the oral presentations. I would like to thank those that attended and participated at the event.

As we gear up for the IADR Cape Town, I am most grateful to the DMG officers for their team approach, dedication and enthusiasm during the planning and organization of both meetings. Special thanks to Steve Bayne for keeping us on track and for updating the DMG website.

We look forward to seeing you in Cape Town.

With much appreciation,

Ana Bedran-Russo  
2013-2014 DMG President



Handing of the DMG Gavel from Paulo Cesar to Ana Bedran-Russo (IADR Seattle)

**2014 DMG-IADR DISTINGUISHED SCIENTIST  
WILLIAM SOUDER AWARD**



Susanne Scherrer, DDS, PhD

Congratulations to Susanne Scherrer! She is uniquely trained among most dental materials researchers, being a dentist who has been heavily involved in practice for more than 29 years, while also teaching and conducting clinical research. Her special area of focus has been fractography. She has led dental materials researchers into this domain with her special tutorials at national meetings (including IADR) and her co-management of the NIST summer course on fractography from 2007-2011. This effort has been singular, impactful, and influential on the way we look at clinical research and understanding clinical problems. Susanne's work has focused mostly on ceramics but has had general application to all dental materials. Her scholarship includes 54 peer-reviewed journal publications. She has been extremely loyal to IADR and DMG since joining in 1994 and serving on a variety of committees. She was the DMG President in 2001-2002 and has continued to provide support the DMG Executive Committee.

**2014 IADR DMG SCIENCE AWARDS**

Congratulations to the recipients of the 2014 Peyton/Skinner and Ryge/Mahler Awards.

**Peyton/Skinner Award Recipient**



Chris Angeletakis, MS, PhD

Christos (Chris) was born in Athens Greece and moved to the US at age 13. Chris

graduated from California State University Long Beach with a B.S. degree in Chemistry in 1976 and a M.S. in Chemistry in 1978. Chris then earned a Ph.D. at Univ. of Calif. Irvine in 1982. After working for American Hospital Supply Corp. in Irvine (later Sybron Corp.) till 1985, he joined the Research Department of Johnson and Johnson Dental Products Company in North Brunswick NJ where he worked on the development of composite filling materials and resins. He also developed synthetic methodologies for several tetracycline derivatives for use in periodontal treatment. In 1991 he joined the research department of Ivoclar AG in Liechtenstein in Europe. There, Chris worked on the development of amalgam replacement composite restoratives and new adhesives. He also worked on the development on a slow release biodegradable system for doxycycline delivery to the periodontal pocket. In 1996 he moved back to California where he began working again for Kerr Corporation, a subsidiary of Sybron Dental Specialties in Orange. His research interests still involved development of better performing dental adhesives, restoratives as well as improved impression materials. Chris has also worked extensively in the field of Ring Opening Metathesis Polymerization (ROMP) using Ruthenium carbene complexes for the curing of thermosets such as silicone elastomers as an alternative to hydrosilation. Since 2008, he has gone independent and formed his own consulting Company, Proteas Technologies Inc. Chris has worked with major dental Companies for the research and development and production of novel dental materials. With Danville Materials as the major contractor, he developed a zirconia based nanocomposite for both direct and indirect placement and impression materials. Chris's work has resulted in 22 publications, more than 25 US patents and numerous presentations. Chris and his wife Christine live in Orange CA. Chris has six children, Ellina (23), Nicholas (22), Sophia (13), Alexios (12) and Georgia (10) and Aristomenes (7). He is an avid gardener and enjoys bicycle riding.

**Ryge/Mahler Award Recipient**



Steven R. Jefferies MS, DDS, PhD

Dr. Steven R. Jefferies is a Professor in the Department of Restorative Dentistry, Maurice H. Kornberg School of Dentistry, Temple University; where he holds the Donald and Cecelia Platnick Professorship in Restorative Dentistry. He is also the Director of the Biomaterials Research Laboratory in the Department of Restorative Dentistry; and Director of Clinical Research for the School of Dentistry. Prior to his current full-time academic position, Dr. Jefferies completed almost twenty years of service with Dentsply International; having served as Corporate Vice President for Advanced Technology, Vice President of Corporate Product Development, and as Director of Clinical Research for Dentsply's Caulk Division in Milford, Delaware. He also previously held the appointment of Associate Clinical Professor in the Advanced Education in General Dentistry (AEGD) Program of the Department of Health Promotion and Policy, Dental School, University of Maryland at Baltimore. After completing a General Practice Residency (GPR) in the United States Public Health Service, Dr. Jefferies was in full-time private general practice for almost 6 years. He has been an inventor or co-inventor on 29 issued US Patents and 63 World-wide Patent Disclosures; an author or co-author on over 60 scientific articles and abstracts, including 3 book chapters; and has delivered over 80 oral presentations on various clinical and scientific topics, in North American and International venues. He is a member of the American Dental Association (1980), Academy of General Dentistry (1980), International Association of Dental Research/American Association of Dental Research (1986), and the Academy of Operative Dentistry (1986); and is a fellow in the International College of Dentists, American College of Dentists, the Academy of Dentistry International, and Academy of General Dentistry.

## 2014 DMG ELECTIONS

### Candidate for Vice-President



Lorenzo Breschi DDS, PhD, FADM

Lorenzo Breschi received his DDS degree cum laude in 1994 and PhD in Human Morphological and Molecular Sciences in 1998 at the University of Bologna (Italy). He is now Associate Professor at the Department of Biomedical and Neuromotor Sciences at the University of Bologna (Italy).

Dr. Lorenzo Breschi is President of the Academy of Dental Materials, Vice-President of the Italian Academy of Conservative Dentistry, and Associate Editor of the Journal of Adhesive Dentistry.

Dr. Lorenzo Breschi is member of the editorial board of international journals, actively involved in research on the ultrastructural aspects of enamel and dentin and their interactions with dentin bonding systems. Dr. Lorenzo Breschi has published more than 180 original papers and review articles on peer-reviewed journals on different aspects of adhesion and restorative materials.

### Candidate for Secretary



Yu Zhang, PhD, MS

Dr. Yu Zhang received his MS degree in Condensed Matter Physics from La Trobe University, Australia in 1996 and his PhD in Materials Science and Engineering from Monash University, Australia in 2002. From 2002 to 2005, he worked as a Postdoctoral fellow at Materials Science and Engineering Laboratory, National Institute of Standards and Technology, Gaithersburg, MD. In February 2005, Dr. Zhang joined the Department of Biomaterials and Biomimetics at the New York University College of Dentistry as an Assistant Professor, where he was promoted to Associate Professor in July 2011. His research interests have largely focused on applying principles of material mechanics to design next-generation functionally graded materials with improved damage resistance and functionalities (supported by both NIH/NIDCR and NSF/CMMI); fabrication of calcium phosphate-based materials for bone therapy (supported by NIH/NIAMS); and mechanical reliability, fatigue damage assessment and lifetime prediction for biomechanical structures—all-ceramic dental restorations (supported by NIH/NIDCR). Dr. Zhang has published over 70 high impact journal articles and book chapters. He is a

reviewer for a number of scientific journals, including Dental Materials, Journal of Dental Research, Journal of Dentistry, Acta Biomaterialia, Acta Materialia, Journal of Biomedical Materials Research: Part B – Applied Biomaterials, etc. Dr. Zhang also holds 5 US, EU, and Japanese patents.

#### Candidate for Treasurer



Ricardo Marins Carvalho, DDS, PhD

Dr. Ricardo Marins Carvalho is Professor at the Department of Oral Biological and Medical Sciences at the University of British Columbia, Faculty of Dentistry, Vancouver, BC, Canada. He is also the Director of the Frontier Clinical Research Centre of the same institution. Dr. Carvalho teaches Biomaterials to graduate program. Dr. Carvalho obtained his DDS (1986) and PhD (1993) from the University of São Paulo, Brazil. He was a post-doc fellow (1993-1995) at the former Medical College of Georgia (currently Georgia Regents University) in USA. Dr. Carvalho has held faculty positions at the University of São Paulo, Departments of Operative Dentistry and Prosthodontics (1988-2011); University of Florida, Faculty of Dentistry, Department of Operative Dentistry (2009-2010); and several other visiting fellowships in Japan and USA. He also held a corporate appointment as Director of Research and Development for Bisco Inc. USA (2006-2008). Dr. Carvalho has published over 190 research articles and has 3 patents. His research focuses on biomaterials-tooth interfaces and also on the development of innovative materials for restorative dentistry. He sits on the Editorial Board and serves as a referee for several journals in dentistry.

#### ONLINE VOTING FOR DMG OFFICERS

The electronic election ballot for DMG officers will be sent to all members.

#### IADR CAPE TOWN MEETING

##### Program

Once the program for the IADR Cape town has been confirmed, we will be sending an announcement containing the detailed program. Stay tuned!

#### Reviewer Thanks

There were eleven Dental Materials Sub-Groups reviewing abstracts for the Cape Town IADR. We received 416 abstracts. Thanks go out to the Chairs of those groups: DM1 – **Ricardo Carvalho**, DM2 – **Steve Armstrong**, DM3 – **William Palin**, DM4 – **Denis Fasbinder**, DM5 – **George Eliades**, DM6 – **Jeff Stansbury**, DM7 – **Nick Silikas**, DM8 – **Hidekazu Takahashi**, DM9 – **Ulrich Lohbauer**, DM10 – **Alex Fok**, DM11 – **Rade Paravina**. These people could not have done their job without the work of a superb group of reviewers: **Erica Teixeira, Rodrigo Souza, Ana Bedran-Russo, Siegward Heintze, Mine Dundar, Paulo Cesar, Yu Zhang, Norbert Krämer, Marit Oilo, Josette Camilleri, Conrado Aparicio, Carmem Pfeiffer, Cees Kleverlaan, Arzu Tezvergil, Satoshi Imazato, Marco C. Bottino, Cortino Sukotjo, Mark Latta, Nikoleta Ilie, Lin Nancy, Jianying Li, Camila Sabatini, and Juliana da Costa**.

There were 10 lunch & learning programs organized by **Mutlu Özcan** with thanks to **Alex Fok, Jan Tiore Samuelsen, Jeff Stansbury, Josette Camilleri, Annalisa Mazzoni, Van Thompson, Kenneth Anusavice, Robert Kelly, and Christian Stappert**. We look forward to the symposia sponsored by DMG and organized by **Marco C. Bottino**.

Planning of the scientific program of 2 large meetings in the same year involves a tremendous amount of time, dedication and creativity. Please help me congratulate **Mutlu Özcan**, she has done a superb work in the organization and planning of the DMG scientific program.

#### UPCOMING DMG RECEPTION

##### IADR Cape Town

**Location:** The DMG Reception will be held at the “Marimba” located in the Convention Center  
(<http://www.marimbasa.com/wp/restaurant-cigarette-bar/>)

**Date:** Wednesday (June 25<sup>th</sup>, 2014) 6:30 p.m. to 8:30 p.m., Smart-Casual Dress

**Registration:** It is strongly encouraged to register online for the reception. Tickets may be purchased at the door based on remaining availability for planned size of reception.

**Registration fees:**

\$50 for member  
\$40 for student member

Direct all other questions to (Mutlu Özcan, GPC Chair and Organizer), Rade Paravina (Corporate Liaison) or Ana Bedran-Russo (President).

**PAST DMG RECEPTIONS****2014 AADR CHARLOTTE**

The 2014 AADR DMG Reception was held at the Howl at the Moon in Charlotte. We had 220 colleagues attend the event. The picture below shows the participants enjoying the performances of the dueling pianos.



Participants at the DMG Reception enjoying the music show.

**2013 IADR/AADR SEATTLE**

The 2013 DMG Reception was held at the Experience Music Project (EMP) in Seattle. The pictures below show the winners of the 2012 and 2013 DMG awards who were acknowledged during the event.



Recipients of the 2012 and 2013 IADR DMG awards

These events have been substantially underwritten on a continuing year-to-year basis

by our loyal corporate sponsors and friends of DMG-AADR. We are indebted most recently for our 2014 Diamond sponsors (Ivoclar North America, Inc. and GC America Inc.) and Silver sponsors (3M-ESPE, BlueLight Analytics Inc., DMG Dental-Material Gesellschaft mbH, Heraeus and SDI).

**Announcements:**

- Jack Lemons chosen to receive the "2015 ACTA Biomaterialia Gold Medal Award".

Please visit the DMG website for updates:  
<http://www.dentalresearch.org/DMG/>

**Recently Deceased DMG Members:**

Hideo Ogura -- Dr. Hideo Ogura was a teacher and mentor at the School of Life Dentistry at Niigata, The Nippon Dental University, since 1973. He sponsored numerous doctoral projects as Chair of the Department of Dental Materials Science. He became Professor Emeritus in 2013 after serving as Dean, School of Life Dentistry at Niigata, The Nippon Dental University, for five years. Dr. Ogura's research focused on development and testing of dental casting alloys and techniques, development and testing of dental amalgam, evaluation of microleakage, development and testing of metal resin composites, evaluation of toothbrushes and oral care devices, and wear testing. He promoted dental materials research and collaboration through his roles in major organizations. He was active in standards development through ISO since 1980. He served as Chairman, ISO/TC106 Dentistry, Subcommittee 9, since 2011. He served as Councilor, Japanese Society for Dental Materials and Devices, since 1976, and was Vice President from 2010-2012. He was a member of the Dental Materials Group since 1979. He received honorary doctoral degrees from Mahidol University, Thailand, and Chung Shan Medical University, Taiwan. He received the Minister of Economy, Trade and Industry Award in 2013. He is survived by his wife and two children. – Tribute by John Powers.

Dennis Smith (1928-2014) -- It is with great sadness that we learned of the death of Professor Dennis Smith. He was the fourth Chair of ISO/TC 106, from 2000 to 2005. He was a world-renowned scientist, a friend, a colleague and a leading light in the work of ISO/TC 106 for some 35 years. Dennis made major contributions to dentistry and the work of ISO/TC 106, as an expert on biomaterials and serving as Chair of SC 1 subcommittee. He invented the first biomaterial to bond to natural tissues (polycarboxylate cement) as well as the

use of acrylic orthopedic bone cement. He received many honors in recognition of his scientific work; Dennis received the 'Order of Canada' and the 'Freedom of the City of Lincoln, UK' where he was born. As Chair of TC/106, Dennis was compassionate, understanding and knowledgeable in dealing with consensus discussions. We will miss his wry sense of humor. We have lost a great man—a wonderful colleague and friend who will be deeply missed. – Tribute by Derek Jones. [Special note: Dennis had been a member of the IADR for 52 years.]

**Symposia ideas and offers for the IADR/AADR Session in Boston, Mass., March 11-14, 2015**

We need to have our plans well advanced for symposia, lunch & learning and hands-on sessions immediately after the 2014 General Meeting in Cape Town. Please send all suggestions to our next Group Program Chair, Jeff Stansbury ([jeffrey.stansbury@ucdenver.edu](mailto:jeffrey.stansbury@ucdenver.edu)).

***Current Officers – DMG:***

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