



# ADM Newsletter

A Publication of the Academy of Dental Materials

Volume 96, Number 2

May 2018

## Message from the President

By Paulo Cesar

Dear ADM Members,

The ADM Board is going through very busy times with the organization of the 2018 Meeting, revision of the contract with Elsevier, creation of an institutional investment strategy, redesigning of our website, among other issues. One important issue is the communication between the ADM Executive Board and general membership of our Academy. In the past, we sent out newsletters on a regular basis, but for some reason we stopped doing this. A newsletter with updated information is long overdue and we decided to reinstate this tradition.

We had a very successful ADM meeting in October 2016. Ana Bedran-Russo organized a wonderful meeting at the Drake Hotel in Chicago, USA. Nine international opinion leaders even from outside the dental field provided a deep insight in the different



themes, including “a fresh look at natural biomaterials and interfaces”, “innovation in dental materials development and performance biocompatibility considerations for novel materials” and “challenges faced by materials in the various oral micro-environments”. At this conference, we introduced the “Meet the Industry” format, in which we gave space to our platinum sponsors to present their perspective on dental materials.

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## Message from the President

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In 2016, we had a major change in our Executive Board, as our long-term treasurer Tom Hilton decided it was time to transition his position to another colleague. Tom joined the Executive board in 2002 and became



treasurer in 2004. During his twelve years of service as treasurer, the ADM steadily grew to become a financially sound society! We would like to express our appreciation to Tom for all his encouragement and leadership! At the ADM meeting in Chicago, Carmem Pfeifer took over the duties and responsibilities as our new treasurer.

Our 2017 annual meeting was held from October 5-7 in Nuremberg, Germany. The overall theme of the conference was “Material Development: From Benchtop to Clinic” with a first day on “Material Characterization”, followed by a day on “Functional Behavior”, and a last day on “Clinical Performance”. Locally organized by Ulrich Lohbauer, the oral presentations were given by eleven international experts in the field. The success



of the meeting was reflected by the significant number of 268 attendees coming from 37 different countries. Some impressions can still be found at [www.adm-conference.com](http://www.adm-conference.com). At this meeting, we introduced the regional “Student Travel Award”, dedicated to the five major regions: North America, Latin America, Europe, Asia/Middle East, Asia/Pacific Region.

Deanna Hilton, our long-term Executive Manager decided to retire from this position by the end of 2018. Dea Dea diligently managed this role over 14 years. She was always the backbone and the brain of the Academy and the Executive Board very much relied on her effective and competent support. She was also the first contact for all members and all inquiries. We will miss her and would like to wish her good luck in her personal future!

DeaDea very seriously took care of her successor and recommended RES Seminars ([www.res-inc.com](http://www.res-inc.com)) as a professional management company for the Academy.

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## Message from the President

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She introduced Lynn Reeves as a new contact person at RES. The ADM Board of Directors signed a four- year contract with RES starting in 2018. Due to the manifold duties of the executive manager, 2018 will be a transition year in which DeaDea and Lynn will be working together, transferring all ADM businesses to RES. We are looking forward to working with RES in the management of the ADM!



During the Business meeting in Nuremberg, the financial investment plan involving about half of the ADM current assets was presented to the membership. Discussion and concerns have been raised related to the general investment policy as well as to practical support versus investment options. The ADM Executive Board has created a financial advisory committee (FAC) which has undertaken an extensive analysis and argumentation for investment. The primary goal of the investment strategy is to achieve financial growth that can be returned as

sustainable benefits to the ADM membership. Respective documents can be downloaded in the secure members-only area of the ADM website. Any comments from ADM Members are welcome!

As you might have recognized, the ADM website received several refreshing features, including the secure members-only area with a new Find-a-Member tool and the connection to the new 2018 conference website ([www.admconference.com](http://www.admconference.com)). Currently under construction, the website will receive a new responsive, mobile friendly interface as well as some new organizational features at the backend.

Since last October, I have been working diligently with Roberto Braga to prepare our Annual Meeting in Brazil. The good news is that we were able to attract 16 sponsors to support the meeting (Kulzer, Elsevier, Sulzer, Vita, DMG, Ultradent, Bisco, Ivoclar Vivadent, Kerr, Pulpdent, Bien Air, Dentsply Sirona, Shofu, 3M, Coltène and FGM). I would like to thank all board members who helped me with this, especially Ulrich Lohbauer, Rick Carvalho and Ana Karina Bedran-Russo. Dea Dea Hilton and Carmem Pfeifer were also very helpful in this process.

RES prepared a new website for our annual meeting, which is almost ready and looks very nice. The website is compatible with smartphones and tablets and will be directly connected to our registration and abstract submission platforms.

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## Message from

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The idea is that, from now on, each meeting organizer will simply send the meeting information to RES and they will update the existing meeting website.

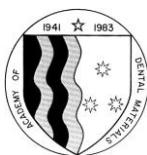
We are expecting a high attendance at this annual meeting, especially from Brazilian researchers, of course. We are planning the meeting based on this large attendance, so this involves decisions about the lecture room format, poster and meeting rooms. We decided to keep the Breakfast and Learn as an early morning activity, like as in previous years. Please contact me if you have any questions regarding our Meeting.

New in 2018, we are offering a scientific award for post-doctoral researchers. The specific outline details are available online upon the abstract submission procedure for the 2018 meeting.

I would kindly ask our members to directly contact me or any of the Board Members in case of any inquiry related to the future of our society.

Sincerely,

Paulo Cesar



**ADM 2018**  
academy of dental materials  
Porto de Galinhas - Brazil  
**October 4 - 6**

## Future Meetings

The **2018** annual meeting of the ADM will be held in Porto de Galinhas, Brazil between October 4 and 6. The registration and abstract submission is open, the respective submission deadline is June 8. Further information can be retrieved at [www.admconference.com](http://www.admconference.com).

The **2019** annual meeting will be organized by Jeff Stansbury and held in the US. Details will be announced at the 2018 annual meeting.

### Call for Abstracts

We are now accepting abstracts for consideration. The Scientific Program Committee invites you to submit an abstract to be considered for Poster Presentation at the 2018 Conference Program.

### IMPORTANT DEADLINES

abstract submission deadline:

**June 08, 2018**

Pre-Registration Deadline for Presenters: **July 22, 2018**

Final Acceptance: **August 3, 2018**

## Treasurer’s Report

By Carmem Pfeifer

Due to the transition in the Treasurer and Executive Administration positions, the Academy’s finances have been audited. The determination from the audit is that the accounting has been approved. The Academy is in good financial standing, as can be seen on the table below.

A detailed summary report, including historical information on the Academy’s financial situation and detailed rationale for the board’s decision to invest part of the assets is now provided in the member’s only area of the ADM website.

	2016	2017
Total members	374	317
Students	55	47
Total fellows	61	56
Registered for meeting	319 (total) 272 (paid)	268 (total) 216 (paid)
Total assets	\$585,371	\$610,825
Total income	\$253,282	\$235,436
Royalties	\$84,795	\$81,989
Total expenses	\$258,340	\$288,972
Net income (loss)	\$79,737	\$28,453
Annual meeting net income (loss)	\$49,904	\$19,342

### ADM Corporate Sponsors:





## Dental Materials Editors' Report

By David Watts and Nick Silikas

So far this year (to week 40, 2017) we have received 715 new submitted manuscripts – approximately 18 per week. If this rate is sustained to year-end it will mean total submissions of 930 MSS; more than a 16 % increase over 2016. Despite the clear message that our focus is on (bio)materials science for dentistry, we receive some MSS that have little connection with either field, even though many of these papers appear to be of a high scientific standard. We are constantly re-assessing what constitutes the content and boundaries of our field in the 21st century.

The support from Elsevier continues to be excellent, both from our Senior Publisher: Jane Ryley and the Journal Manager: Matthieu Renaud. The latest Journal Citation Reports (for 2016; released June 2017) were particularly encouraging. The Dent Mater IF is 4.070 and the 5-year IF is 5.155 – this is higher than any other dental journal (of the 90 listed). We had 11,915 citations. We are also top of Elsevier's Citescore Index (4.74) for all of their 28 dental journals and every other dental journal.

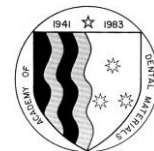
This year we had many of the ADM Research Guidance papers accepted and published. The speaker Manuscripts for the 2016 ADM meeting in Chicago were published at intervals this year, with one default. Also the majority of speaker manuscripts for the Nuremberg meeting have now been received

and typeset. So many will be available for the January 2018 issue: 34(1).

We also published a number of Review papers, for which we require prior approval before submission. Some proposed reviews were declined, because a high standard is expected – not a first attempt at a literature review by a novice researcher. Moreover, there is a problem of inappropriately conceived review topics through misapplication of Cochrane-type criteria to issues in restorative biomaterials, for which they are unsuitable. This problem was addressed recently by Prof J-F Roulet in a Guest Editorial.

We now have 12 months experience with operating the Elsevier manuscript management platform, known as EVISE, which replaced the previous system (EES) in September 2016. EVISE has recently gone through a series of revision updates, entailing periods of downtime. The new system has greater functionality, although there are some things that editorially we could do previously that we cannot so easily do now. EVISE is now becoming common to all the Elsevier journals, publishing – as they do – 25 % of global research papers.

The Editorial Team expresses grateful thanks for their support to the ADM President, ADM Board members and the journal Editorial Board – David Watts & Nick Silikas.



## Fellowships and Awards

### Fellowship

In 2017, the Academy awarded Fellowships to Tom Hilton, Marco Bottino, Carmem Pfeiffer, and Marcelo Giannini. The respective plaques were presented during the annual meeting in Nuremberg. Congratulations to our new Fellows!

### Emeritus status

The emeritus status was approved by the Executive Board for Maria Pintado (2017), Tom Hilton (2018), and for Diane Rekow & Van Thompson (2019). We wish you all the best for your future!

### Founder's Award

This most important ADM Award was initiated to honor Dr. Evan Greener in recognition of his



contribution to the Academy. This honorary Award was presented to Prof. David C. Watts in 2017 for his outstanding commitment to the Academy as one of the most distinguished leaders and as a highly respected and cited scientist with a strong impact to Dental Materials and Polymer Science. Dr. Watts is

the Editor-in-Chief of our Journal Dental Materials since 1998 and raised the impact to 4.040 in 2017, which made it the leading dental journal.

### Paffenbarger Award

This competition recognizes students who present the most excellent research at our annual conference. The 2017 winners are:



#### 1. Bruna Marin Fronza

B.M. Fronza, M. Giannini, J. Stansbury. Modification of Filler-Matrix Interphase of Restorative Composites Using Reactive Nanogels. State University of Campinas, Piracicaba, Brazil & University of Colorado, Aurora, USA

#### 2. Diana G. Soares

Regenerative Potential of Simvastatin-Loaded Nano-Fibrous Scaffolds with LPS-Stimulated Pulp Cells. D.G. Soares, Z. Zhang, F. Mohamed, C.A. De Souza Costa, P.X. Ma. Araraquara Dental School, UNESP, Brazil & University of Michigan, USA

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## Fellowships and Awards

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### 3. Dayane Oliveira

From Blue to Red: New Photoinitiator Systems For Dental Materials. D. Oliveira, M.R. Rocha, A.B. Correr, A. C. Silvino, M.A.C. Sinhoreti. Piracicaba Dental School, UNICAMP, Brazil

The Paffenbarger Award winner received a plaque, a money prize of US \$1,750 and free registration for the following ADM meeting; second place received a certificate, a money prize of US \$1,250 and free registration for the following ADM meeting; and third place received a certificate a money prize of US \$1,000 and free registration for the following ADM meeting.

### Student Travel Award

This new regional Award reflects the five major regions North America, Latin America, Europe, Asia/Middle East, and Asia/ Pacific and was presented for the first time in 2017. With the focus on excellence in dental biomaterials research, this travel support includes a certificate of recognition, a US \$ 1,000 money price for actual travel expenses and a free registration for the annual meeting. The 2017 price winners are:

Asia/Middle East: Hafiz Muhammad Owais Nasim (Pakistan): Synthesis of phosphate based bioactive glass material. Unfortunately, the awardee was not able to attend the annual meeting and so the travel support was not assigned.

Asia/Pacific: Ting Wang (Hong Kong): The biomechanical properties of a novel bis-GMA-free fiber reinforced composites

Europe: Allegra Comba (Italy): Effect of acrolein-based primer as collagen cross-linker on dentin adhesion

Latin America: Diego Santos Manarão (Brazil): Silica-coating of Y-TZP before final sintering: Monoclinic content

North America: No application received.

### University Student Award

In 2017, 29 members of the Academy, at various Dental Schools around the world (USA:25; Japan:1; Brazil:1; Germany:1; UK:1), presented awards to the most outstanding student researchers in the field of Dental Materials – Congratulations!

Request forms for the 2018 Awards are available at our website. Please send the request forms to the ADM secretary: [ulrich.lohbauer@fau.de](mailto:ulrich.lohbauer@fau.de) with sufficient time for the student award plaques to be prepared and shipped.





## Other Business

### *ADM Guidance Initiative*

Back in 2013, the ADM Board established a scientific initiative towards proper guidance for dental materials research. The principal motivation was to address this to young or new researchers in the field, beyond what is available in the ISO specifications and other literature reviews. It should further help standardizing inter-lab research and

worldwide R&D collaborations. Separate working groups have formed, focusing on the subjects: Adhesion, Ceramics, and Composites. To date, the following contributions are published in Dental Materials:

Cesar P, Hickel R, Kelly JR, Lohbauer U, Watts DC. ADM research guidance papers. *Dent Mater* 2017;33:967.

Armstrong S, Breschi L, Özcan M, Pfeifferkorn F, Ferrari M, Van Meerbeek B. Academy of Dental Materials guidance on in vitro testing of dental composite bonding effectiveness to dentin/enamel using micro-tensile bond strength ( $\mu$ TBS) approach. *Dent Mater*. 2017;33:133-143.

Cesar PF, Della Bona A, Scherrer SS, Tholey M, van Noort R, Vichi A, Kelly R, Lohbauer U. ADM guidance-Ceramics: Fracture toughness testing and method selection. *Dent Mater* 2017;33:575-584.

Scherrer SS, Lohbauer U, Della Bona A, Vichi A, Tholey MJ, Kelly JR, van Noort R, Cesar PF. ADM guidance-Ceramics: guidance to the use of fractography in failure analysis of brittle materials.

*Dent Mater* 2017;33:599-620.

Lohbauer U, Scherrer SS, Della Bona A, Tholey M, van Noort R, Vichi A, Kelly JR, Cesar PF. ADM guidance-Ceramics: all-ceramic multilayer interfaces in dentistry.

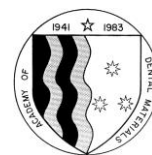
*Dent Mater* 2017;33:585-598.

Ilie N, Hilton TJ, Heintze SD, Hickel R, Watts DC, Silikas N, Stansbury JW, Cadenaro M, Ferracane JL. Academy of Dental Materials guidance-Resin composites: Part I-Mechanical properties.

*Dent Mater* 2017;33:880-894.

Ferracane JL, Hilton TJ, Stansbury JW, Watts DC, Silikas N, Ilie N, Heintze SD, Cadenaro M, Hickel R. Academy of Dental Materials guidance—Resin composites: Part II—Technique sensitivity (handling, polymerization, dimensional changes).

*Dent Mater* 2017;33:1171-1191.



## ADM Executive Board and Committees

### ADM Board of Directors:

**President** (2016-2018):

Paulo F. Cesar  
[paulofc@usp.br](mailto:paulofc@usp.br)

**Vice-President** (2016-2018):

Jeffrey W. Stansbury  
[Jeffrey.Stansbury@ucdenver.edu](mailto:Jeffrey.Stansbury@ucdenver.edu)

**Past-President** (2016-2018):

J. Robert Kelly  
[kelly@uchc.edu](mailto:kelly@uchc.edu)

**Treasurer** (2016-2020):

Carmem Pfeifer  
[pfeiferc@ohsu.edu](mailto:pfeiferc@ohsu.edu)

**Secretary** (2016-2018):

Ulrich Lohbauer  
[ulrich.lohbauer@fau.de](mailto:ulrich.lohbauer@fau.de)

### Board Members-At-Large:

Ana Karina Bedran-Russo(2014-2018):  
[bedran@uic.edu](mailto:bedran@uic.edu)

Mutlu Özcan (2016-2020):

[mutluozcan@hotmail.com](mailto:mutluozcan@hotmail.com)

Arzu Tezvergil-Mutluay (2016-2020):

[arztez@utu.fi](mailto:arztez@utu.fi)

Roberto Braga (2017-2021):

[rrbraga@usp.br](mailto:rrbraga@usp.br)

Annalisa Mazzoni (2017-2021):

[annalisa.mazzoni@unibo.it](mailto:annalisa.mazzoni@unibo.it)

William Palin (2017-2021):

[W.M.Palin@bham.ac.uk](mailto:W.M.Palin@bham.ac.uk)

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[david.watts@manchester.ac.uk](mailto:david.watts@manchester.ac.uk)

**Transaction Editor:**

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**Membership Chair:**

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**Webmaster:**

David Berzins  
[david.berzins@marquette.edu](mailto:david.berzins@marquette.edu)

**Executive Manager:**

Lynn Reeves, RES Inc.  
[admin@academydentalmaterials.org](mailto:admin@academydentalmaterials.org)

### ADM Current Committees:

**Award Committees:**

**The Marshalls Postdoctoral Award Chair**

William Palin

**Paffenbarger Award Chair**

Arzu Tezvergil-Mutluay

**Student Travel Award Chair**

Mutlu Özcan

**University Student Award Chair**

Ulrich Lohbauer

**By Laws Committee:**

Paulo Cesar  
 Ulrich Lohbauer  
 Carmem Pfeifer  
 Ana Karina Bedran-Russo  
 Rick Carvalho

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## ADM Executive Board and Committees

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### Financial Advisory Committee (FAC):

Carmem Pfeifer  
 Jeff Stansbury  
 Two Board Members-at-Large  
 External Volunteers (t.b.a.)

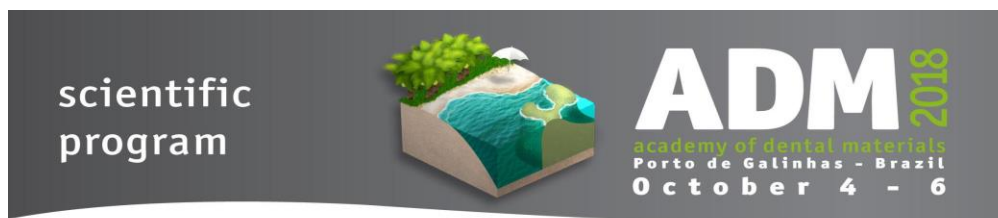
### Fellowship Committee:

Ulrich Lohbauer  
 Mutlu Özcan  
 Roberto Braga

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CONFERENCE THEME  
 Translational Biomaterials Research:  
 Ceramics, Remineralization and Adhesives

#### Wednesday Oct 03<sup>rd</sup>

16:30 – 18:30	Registration
19:00 – 22:00	Welcome Reception

#### Thursday Oct 04<sup>th</sup>

07:30 – 13:00	Registration
08:00 – 08:30	Opening Ceremony
08:30 – 09:30	YU ZHANG (NEW YORK UNIVERSITY) Performance of Zirconia-Based Dental Ceramics: Challenges and Opportunities
09:30 – 10:30	SUSANNE SCHERRER (UNIVERSITY OF GENEVA) Translational Research on Clinically Failed Zirconia Implants
10:30 – 12:00	Coffee Break and Poster Session
12:00 – 13:00	JASON GRIGGS (UNIVERSITY OF MISSISSIPPI) Using Fractal Geometry to Examine Failed Implants and Prostheses



#### Friday Oct 05<sup>th</sup>

07:30 – 08:25	Breakfast and Learning
08:30 – 09:30	IMAD ABOUT (UNIVERSITY OF MARSEILLE) Pulp Capping Materials Modulate the Balance Between Inflammation and Regeneration
09:30 – 10:30	STEPHAN HABELTZ (UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO) Remineralization of Dentin Lesions Using P/LP-Releasing Cements
10:30 – 12:00	Coffee Break and Poster Session
12:00 – 13:00	ROBERTO BRAGA (UNIVERSITY OF SÃO PAULO) Calcium Phosphates as Ion-Releasing Fillers in Restorative Composites
13:00 – 14:00	General Assembly
19:00 – 23:00	Social Dinner

#### Saturday Oct 06<sup>th</sup>

07:30 – 08:25	Breakfast and Learning
08:30 – 09:30	MILENA CADENARO (UNIVERSITY OF TRIESTE) The Role of Polymerization in Adhesive Dentistry
09:30 – 10:30	JOSIMERI HEBLING (SÃO PAULO STATE UNIVERSITY) Challenges to Produce and Maintain a Stable Hybrid Layer
10:30 – 12:00	Coffee Break and Poster Session
12:00 – 13:00	YOAV FINER (UNIVERSITY OF TORONTO) Biostable, Antidegradative and Antimicrobial Restorative Systems Based on Host-Biomaterials and Microbial Interactions
13:00 – 14:00	Awards Ceremony