



Message from the IADR DMG President

Dear DMG Members,

It has been less than a year since I assumed the DMG presidency at the IADR meeting in Seoul, Korea. DMG was founded in 1938 and after so many years of international activity under the precious guidance of prestigious presidents such as George Paffenbarger, Eugene Skinner, Ralph Phillips, I feel deeply honored being the first Italian serving as President.

As 2016 was a split year, thus my responsibility was mainly to organize the DMG scientific program for both the AADR Meeting in Los Angeles and the IADR Meeting in Seoul.

We are the largest scientific group in the IADR and we should aim for increasing our membership. Over the years, the number of abstracts submitted to the DMG is 2-3 times larger than the current membership (1,874), of which 1099 full members and 733 student members and 42 retired members.

In October the DMG officially endowed the William Souder Distinguished Scientist Award. This endowment has been planned for a couple of years and we are glad that it was made official. This year, DMG is pleased to announce a new award to our members. The Stephen Bayne Mid-Career Award will award highly accomplished individuals at the middle of their career of dedication to research in Dental Materials. Please, see the announcement further below in this newsletter, and refer to the DMG website (iadr.org/DMG/) for more information on eligibility criteria and how to make nominations (Deadline for nominations, February 1st, 2017).

The IADR officially celebrates its 100th Anniversary in 2020 but there will be a long run-up of celebrations and activities prior to the final date. IADR has created a task force to plan and help organize activities (Helen Whelton, Stephen Bayne, Taki Kuroda, Maria Fidela de Lima Navarro, Barry Sessle, Edward Lo, Ed Yen, Christopher Fox). The JDR will celebrate its 100th anniversary in 2019, and the IADR will celebrate in 2020. The JDR celebration will be a subset of the IADR celebration. The committee has already generated a survey to prioritize about 30 suggestions for the celebration, and will be generating a structured plan shortly to present to the officers and then Council.

I would like to thank the entire DMG Board (Jeff Stansbury, Ricardo Carvalho, Yu Zhang, Marco Bottino), our treasurer Carmen Pfeiffer, our councilor Sibel Antonson and Corporate Liaison Rade Paravina.

Finally, I would like to extend my gratitude to Steve Bayne, for mentoring me at all stages of my tasks.

I look forward to seeing you in San Francisco.
With much appreciation,

Lorenzo Breschi
2016-2017 DMG President



Handing of the DMG Gavel from Jeff Stansbury to Lorenzo Breschi (IADR Seoul)

2016 DMG-IADR DISTINGUISHED SCIENTIST WILMER SOUDER AWARD



Presentation of the William Souder Award from IADR President Marc Heft to Bob Kelly (IADR Seoul)

J. Robert Kelly, DDS, PhD

Congratulations to Bob Kelly (DDS, MS, DMSc), the recipient of the 2016 William Souder Award!

Bob Kelly is director of the Center for Advanced Technology Integration, University of Connecticut Health Center, Storrs, USA. He earned a B.A. in chemistry and biology from the University of California at Santa Cruz, USA; a D.D.S. from the Ohio State University College of Dentistry, Columbus, USA; an M.S. in dental materials from Marquette University Graduate School, Milwaukee, Wisconsin, USA; and a D.Med.Sc. in oral biology from Harvard University, Boston, Mass., USA, with an emphasis on ceramic engineering and glass science in a cross-registration program at the Massachusetts Institute of Technology, Cambridge, USA. His significant scientific contributions have involved applying principles of failure analysis and fracture mechanics to document failure mechanisms that occur during clinical functioning of all-ceramic prostheses. More recently, his laboratory developed very good capabilities in fatigue testing and lifetime analysis and predictions that have led to the documentation of strain-rate sensitivity in titanium implant alloys and the development of a protocol for predicting the lifetime behavior of denture teeth on implant-supported prostheses. Kelly is a recognized scientist in dental materials research and a leading figure in international standards development in dental ceramics and metal-ceramic systems.

Supported by an endowment provided by the IADR DMG, this is the oldest of the 17 IADR Distinguished Scientist Awards and consists of a monetary prize and a plaque. The award honors Dr. Wilmer Souder, the motivating force in establishing the Dental Section at the National Bureau of Standards. It is one of the highest honors bestowed by IADR.

2016 IADR DMG SCIENCE AWARDS

The DMG makes two annual awards in recognition of the past contributions to Dental Materials science and research by four outstanding DMG scientists: Dr. Floyd Peyton, Dr. Eugene Skinner, Dr. Gunnar Ryge and Dr. David Mahler. The awards are made to recognize scientists who throughout their careers have made outstanding contributions to (1) innovation in dental materials (Peyton-Skinner award) and, (2) clinical research in dental materials (Ryge-Mahler award).

Unexpectedly, DMG did not present the Sciences Awards last year. For more information on eligibility criteria and how to make nominations please refer to:

iadr.com/i4a/pages/index.cfm?pageid=3807#.WDXL-033Vobs

Deadline for nominations: January 15th, 2017.

2017 ANNOUNCING THE STEPHEN BAYNE DMG MID-CAREER AWARD

The DMG sponsors awards at the IADR level (Wilmer Souder Distinguished Scientist Award) and through our internally administered recognition of excellence in basic and applied science through the above mentioned Peyton-Skinner and Ryge-Mahler awards. These awards are typically presented to researchers at relatively senior levels of their careers. At the other end of the spectrum, the DMG also encourages and supports students with fellowships and travel awards through the AADR/IADR and there is also the opportunity for student travel awards through the DMG's cooperation with Heraeus Kulzer. These awards leave an obvious gap in terms of recognition of researchers who are in the critical early stages of their careers.

In recognition of the tremendous support that Steve Bayne has given to so many dental materials researchers at all stages of their professional careers as well as his unparalleled devotion to make the DMG the exemplary organization within the IADR, we are extremely proud to offer this new DMG Mid-Career Award in his name. The objective of the STEPHEN BAYNE MID-CAREER AWARD is to recognize IADR members who have demonstrated significant contribution to the science and application of dental materials research by their mid-career with the aim to help attract and retain younger investigators in the field of dental materials research. To remain a vital and relevant organization, it is imperative for the DMG to maintain and invigorate our pipeline of researchers engaged in all aspects of traditional dental materials as well as materials-centered studies applied to the oral/facial complex. To encourage diverse, high-quality research perspectives and initiatives, we want to be fully inclusive in this outreach to include individuals from any institution as well as from all regions of the IADR - North America, Latin America, Europe, Africa/Middle East and Asia/Pacific.

Application:

- The definition of a mid-career will provide for consideration of individuals who are a minimum of 5 years beyond the granting of their PhD, or equivalent highest degree.
- Prospective candidates for this award should be IADR/DMG members with at least 3-year record of participation as lead author on abstracts presented at IADR or related DMG-sponsored programs.
- The application process requires the submission of a current CV along with two letters of support from established and productive DMG members as well as a brief narrative (1-page maximum) that highlights how the individual's prior research accomplishments are anticipated to transition in work going forward (specific details not necessary but a general idea of the intended research direction is requested).

The application package must be submitted to the DMG Awards Committee by February 1st, 2017 with one awardee to be selected per year. The award will consist of a plaque and the provision of \$2000 for travel to an IADR meeting within that same year to accept the award, and \$3000 as an undesignated gift for the purposes of fostering continued research.

IADR SAN FRANCISCO MEETING

Program

The table below provides the distribution of abstracts (1036) submitted through the DMG for programming at the IADR San Francisco Meeting.

DM1 – Ceramic-based Materials (129)
DM2 – Polymer-based Materials (261)
DM3 – Metal-based Materials and Other Materials (54)
DM4 – Adhesion-Bonding and Sealing (229)
DM5 – Biocompatibility, Bioengineering and Biologic Effects of Materials (176)
DM6 – Instruments and Equipment (49)
DM7 – Color and Appearance (87)
DM8 – Clinical Trials (51)

Once the program for the Meeting has been confirmed, we will be sending an announcement to the DMG members. Stay tuned!

Reviewer Thanks

A total of 1036 abstracts were submitted to the 8 DM Sub-Groups for the upcoming IADR/AADR meeting in San Francisco (see distribution above). Rick Carvalho has been the overall coordinator of DMG session for the San Francisco Meeting, and we would like to extend our highest appreciation for our members who actively participate in the process of Sub-Groups coordination, abstract revision and construction of the sessions. DMG thanks you all for the time and effort dedicated to our group.

The DMG sub-group program chairs [and abstract reviewers] for this meeting were:

DM1 – Paulo Cesar
[Yu Zhang, Ulrich Lohbauer, Garry Fleming]
DM2 – Carmem Pfeifer
[Luis Felipe Schneider, Atais Bacchi, Jirun Sun, Ana Paula Fugolin, Christopher Felix]
DM3 – Sheldon Newman
[William Brantley, David Berzins]
DM4 – Jorge Perdigao
[Pong Pongprueska, Viviane Hass, Rick Walter, Cynthia Yiu, Ana Sezinando, Nicola Scotti]
DM5 – Carlos Alberto Souza Costa
[Samira Camargo, Faleh Tamimi, Josimeri Hebling]
DM6 – Frederick Rueggeberg
[William Palin, Mary Anne Melo, Frank Pfefferkorn]
DM7 – Rade D. Paravina
[Juliana da Costa, Andre Ritter, Alessandro Vichi, Joe Ontiveros]
DM8 – Niek Opdam
[Norbert Kraemer, Max Cenci, Valeria Gordan]

KEYNOTE ADDRESSES

In addition, we would like to convey our heartfelt gratitude to our 7 keynote speakers who agreed to lead our oral sessions with their topic-specific talks. Do not miss them:

DM1 – Ceramic-based materials:

- Jukka Matinlinna
(Hong Kong University, China)
"Silane chemistry dominates dentistry – Why?"

DM2 – Polymer-based materials:

- Carmem Pfeifer
(OHSU School of Dentistry, USA)
"Alternatives to conventional methacrylate chemistry for dental restorative materials"
- In-Bog Lee
(Seoul National University, South Korea)
"Make your own instruments for biomechanical research: Open source hardware and software"

DM4 – Adhesion – Bonding and Sealing

- Kerstin Bitter
(Charité-Universitätsmedizin Berlin, Germany)
"Challenges in adhesion to root dentin"
- Yasuhiro Yoshida
(Hokkaido University Hospital)
"Therapeutic innovation derived from basic research of dental materials"

DM5 – Biocompatibility and biologic effects

- Yoav Finer
(University of Toronto, Canada)
Biomaterial, host and microbial interactions:
Factors to consider when developing dental materials

- Timothy Watson
(King's College London Dental Institute, London)
"How can we bond and repair carious dentine?"

DM6 – Instruments and Equipment

- Ivo Krejci
(University of Geneva, Switzerland)
"The impact of CAD/CAM on restorative dentistry:
Past, present and future"

DM8 – Clinical Trials

- Niek Opdam
(Radboud University Medical Center, Nijmegen,
The Netherlands)
"Future designs in clinical trials"

Lunch and Learning

There will be four Lunch & Learning sessions, as follows:

- "Monomer Chemistries in Dental Composites: Current Trends and Future Perspectives" by Carmem Pfeifer, OHSU, Portland
- "3D Printing and Laser-Sintering: Dental Applications" by Faleh Tamimi, McGill University, Montreal
- "Bioremineralising Adhesives For Long-lasting Restorations" by Salvatore Sauro, Cardenal Herrera, Valencia
- "Bonding and Cementing Zirconia Restorations" by Liang Chen, Bisco Inc, Schaumburg

Symposia

DMG is sponsoring 1 symposium:

"Post Minamata: what is the Status of Amalgam Replacements?" organized by Tim Watson, King's College, London.

In addition DMG is also co-sponsoring:

"e-health: research initiatives in new technologies in oral health" organized by Rodrigo Mariño, University of Melbourne, Australia.

"Quo Vadis Dental Materials?" organized by Drago Skrtic, Volpe Research Centre, ADAF, Bethesda, USA.

Hand-on Workshop (Co-sponsor)

"Poster presentations: making the visual and verbal excellent", organized by Sharon Grayden, University of Michigan

UPCOMING DMG RECEPTION

IADR San Francisco
Location:

Thirsty Bear
thirstybear.com/

Date:

Wednesday (March 22nd, 2017)
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:

Rick Carvalho (rickmc@dentistry.ubc.ca, GPC Chair and General Organizer)

Rade Paravina (rade.paravina@uth.tmc.edu, Corporate Liaison)

Lorenzo Breschi (lorenzo.breschi@unibo.it, President).

RECENT DMG RECEPTIONS

2016 IADR SEOUL

The 2016 IADR DMG Reception was held at the Lu Restaurant within COEX Convention Center in Seoul. We had 220 colleagues attend the event. The picture below shows our immediate Past President Jeff Stansbury during his speech and the DMG Board at the reception.



These events have been substantially underwritten on a continuing year-to-year basis by our loyal corporate sponsors and friends of DMG-AADR/IADR. We are indebted most recently for contributions from:

BISCO, INC
DENTSPLY
GC-AMERICA, INC
HERAEUS KULZER
IVOCLAR North America
VITA.

TREASURER'S REPORT

The DMG finances are in good standing, with a net balance of \$112,000. In 2016, an income of around \$39,000 was recorded, from a combination of membership dues, registration fees for the banquet and sponsorships. The expenditures totaled \$38,000, and included the cost for organizing the banquet and symposia, and providing grants, awards and fellowships.

OTHER ANNOUNCEMENTS

2016 Inaugural Ralph W. Phillips Dental Biomaterials Symposium



Phillips Symposium was held on the IUPUI campus on October 10, 2016. The symposium, named to honor the memory and work of Dr. Phillips, will carry on the tradition of his approach of translating laboratory research findings into clinical applications to improve patient care. Current DMG Secretary Marco Bottino and DMG Past President Jeff Platt organized and hosted this event which brought over 80 scientists and clinicians to Indiana University campus to learn about the latest advances and new technologies in the fields of dental adhesives, ceramics, polymerization, regenerative dentistry and stem cell therapy. The program included 6 renowned speakers and IADR members: Mutlu Özcan; Paulo Cesar; Lorenzo Breschi; Jeremy Mao; Paulo Coelho; and Will Palin. Professor Jack Lemons (UAB) was the special guest and shared wonderful memories of Professor Phillips. We look forward with great anticipation to the next symposium in this series to honor Dr. Ralph W. Phillips. Stay tuned!

2017 ADM Meeting location is Nuernberg (Nuremberg), Germany, Oct 5-7



Please visit the ADM website for updates:
academydentalmaterials.org/scripts/default.asp

Recently Deceased DMG Members:

More extensive biographies and memories can be obtained on the DMG home page under the section MEMORIES.

Dr. Graham Jaunay Mount (1924-2016)



GRAHAM Mount was a leader within the dental profession in Australia and overseas. He had a distinguished career as a clinician, researcher and educator. His professional life was devoted to the development of more effective methods of treating dental disease. He introduced new dental care technologies in Australia, South East Asia and the Pacific Islands. One of Graham's most notable early contributions was from 1960 when he helped establish continuing education courses for dentists at the University of Adelaide.

In his mid-fifties he saw the potential benefits that a new restorative material, glass ionomer, might bring to patients with badly decayed teeth.

Under mentorship of the late Dr Owen Makinson he investigated the properties of glass ionomer cements, while continuing part-time private practice. Graham became recognized as one of the world authorities on this material. In 2000 he was presented with the Medal of Paris by the Federation Dentaire Internationale.

Dr. Rosalind (Ros) C. Randall (1947-2016)

Written by Nairn Wilson

Original link below

nature.com/bdj/journal/v221/n3/full/sj.bdj.2016.577.html

Dentistry, in particular dental biomaterials science, is greatly indebted to Ros Randall. Ros was about to retire and begin to spend more time with her husband, George, and her four Friesian horses, having only recently completed the building of her dream equestrian facilities in Minnesota, when she succumbed to sudden, unexpected illness. All those close to Ros were left stunned.

Ros, born in Staffordshire and raised in Huddersfield, qualified BChD (Hons) from Leeds in 1970. Following 16 years in general practice in Harrogate, Staley Bridge and then Sedbergh, Ros successfully applied for a highly sought after position in dental industry (3M). While working in Loughborough and subsequently Borken and Pithiviens, Ros excelled in part time MPhil and then PhD studies at the University of Manchester. Ros developed special expertise in methodologies for the clinical testing of restorative materials and systems. Related work resulted in highly cited papers; for example, systematic reviews on the effects of glass-ionomer cements on the development of secondary caries. Building on this, Ros became an international authority on protocols for clinical trials to satisfy regulatory requirements around the world – an achievement which demanded a passion for clinical research logistics and processes. From 2000, Ros was based in St Paul, Minnesota, but was always just an email or call away from her numerous friends and colleagues.

Away from research, Ros was a delight to be with, given her special quality of putting everyone at ease. Second to George and her horses, Ros loved gardening, among various other activities. Nothing was done by half! What a great shame that Ros was not spared to enjoy at least something of her well-earned retirement. All those who knew Ros, pause and reflect on the loss of a really good person who was great to spend time with and made a real difference.

Symposia ideas and offers for the 2018 Meetings

(AADR Meeting in Fort Lauderdale, Fla., March 21-24 and IADR Meeting in London, England, July 25-28)

We need to have our plans well-advanced for symposia, lunch & learning and hands-on sessions immediately after the 2017 General Meeting in San Francisco. Please send all suggestions to our next Group Program Chair, Yu Zhang (yz21@nyu.edu).

Current Officers – DMG:



Lorenzo Breschi
DMG President



Rick Carvalho
President-Elect



Yu Zhang
Vice-President



Marco Bottino
DMG Secretary



Carmen Pfeifer
DMG Treasurer



Sibel Antonson
DMG Councilor



Rade Paravina
Corporate Liaison



Jeff Stansbury
DMG Past President



Mutlu Ozcan
DMG SR Past-President