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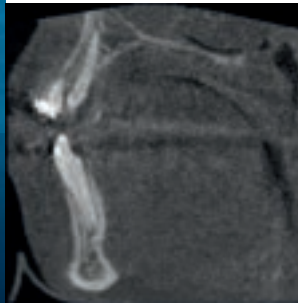
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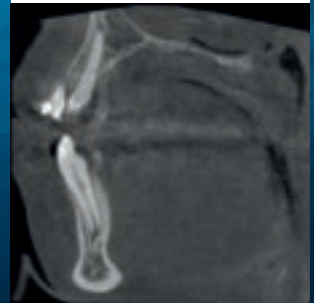
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EADMFR Newsletter

Issue 13, Spring 2017

Editor

Keith Horner

Editorial

Dear Colleagues,

Along with the website, the Newsletter is the main method of communication from the Academy to its members. For many EADMFR members, their involvement may be limited to attending the biennial Congress, so it is important for the Newsletter to communicate the many activities undertaken by officers and members of the Academy at other times. The EADMFR is always busy, as I have discovered.



The recent EADMFR Congress in Cardiff, at the start of my term as Vice-President, was a memorable event, thanks to the great efforts made by Nick Drage and his team. If you were unable to come to Cardiff, then be sure to read Nick's report to see what you missed. Over the last few months, I have pestered the Chairs of the Academy's Committees to prepare their annual reports for inclusion in the Newsletter. I am very grateful for their tolerance for my emails and their work.

There are excellent reports from all the Committee Chairs. I will not repeat what they say here, but each has something interesting to say. Among the news in the reports, however, I will highlight a few things. The Education Committee is planning this year to perform a survey of undergraduate education in dental and maxillofacial radiology in Europe. Please play your part in facilitating this important work. The Selection Criteria and Radiation Protection Committee is going to work on an evidence-based guideline for the use of CBCT in the assessment of mandibular wisdom teeth. The accumulating evidence that CBCT may not be effective in changing patient outcomes after surgery means that this task is essential. Work such as these examples is exactly what the Academy should be doing.

The Junior Committee held their meeting in Porto earlier this year and I hear that it was a great success. This event has become increasingly popular, with applicants from all over Europe and beyond. Take a look at the happy faces in the photographs in Linda's report. The Task Force set up to develop a European DMFR programme has been working hard, both before and after a round table session at the Cardiff EADMFR Congress last year. We look forward to further developments over the next year or so.

There are several people whom I should thank. Apart from everyone who wrote reports for the Newsletter, I particularly thank the Academy's Officers (Eva, Dennis, Nick and Kaan) for their great support, good humour and wisdom. Kaan deserves

everyone's thanks for completing his successful term of office in 2016 and for his continuing contribution and experience. Dirk Schulze should also be thanked for his great work as Secretary, a position now handed over to his close colleague Dennis. In Eva we have a dedicated and talented President and she has been a pleasure to work with. The support of AIM in Brussels has been great; thanks to Bernadetta and Dorothee; the Belgian chocolate after last November's meeting in Brussels was appreciated! It is also essential that we engage with our sponsors who so generously support the Academy. So look at their advertisements in this issue; without their Partnership, it would be harder for the EADMFR to function as an effective organisation.

We look forward to the next EADMFR Congress in Lucerne (14th-16th June 2018). It seems a long time away, but it will come very quickly.

I hope that you find the Newsletter interesting. It was an honour to take on the responsibility of preparing the Newsletter. If anyone thinks it is an easy job, then think again!

Best wishes to all of you.

Keith Horner

Newsletter Editor and Vice-President

Cover page: The images on the cover page, going clockwise from the top left: 1) digital subtraction parotid sialogram, showing changes of chronic sialadenitis with dilatations of the ductal system, but also a main duct stricture and some small filling defects, 2) a dens invaginatus on a CBCT cross-sectional image, 3) a CBCT of a patient with bilateral impacted mandibular canine teeth, 4) a cementoblastoma on a panoramic radiograph. Images 5) and 6) are a CT three-dimensional image and a radioisotope bone scan of a patient with bone necrosis in the maxilla. He also had Paget's disease of bone in the cranium and was taking bisphosphonates.

Message from the President

Eva Levring Jäghagen



Dear Colleagues and friends,

You are reading the 13th issue of EADMFRs Newsletter, excellently edited by the Academy's President elect, Keith Horner. Thank you for all your efforts to finalise this issue Keith!

Many of us met last June, during the 15th European Congress of DentoMaxilloFacial Radiology in 2016. It was an excellently prepared and performed event and I want to thank and congratulate Nick Drage and his local organising team in UK for this very successful congress. I know that you all put great effort in making us all feel welcome and having an unforgettable time in Cardiff – and you succeeded. We met, we learned, we presented the latest research and developments, we discussed and we came to conclusions and solutions.....and in the end I became President.

Eight months as president of the Academy has passed and the width of all the continuously upcoming tasks that has to be handled within the Academy are getting clearer. A number of colleagues and members of EADMFR are dedicating their valuable free time to work for our Academy. This is extremely important for the existence of the Academy and I am very grateful to all of you who voluntarily take your time, thank you! Special thanks for all your support to the officers that I am constantly in contact with, Kaan Orhan, Keith Horner, Dennis Rottke and Nick Drage.

Since January, the system for payment of the membership fee has been changed and a new and better working system has been launched. You have all had an invitation to pay your membership fee and I hope you have found it sufficient. The Academy is dependent of our members, what we do is for the sake of all of you. So, please encourage your colleagues to become members too. The AIM group and Bernadetta Della Croce, are continuously handling the Academy's administrative tasks very professionally, now also including the new routines for payment of the membership fee, administration of the homepage and registration for the coming congresses. Thank you Bernadetta, for your dedicated work for the Academy - with any large or small task!

The officers met in Brussels in November to discuss upcoming tasks including planning future activities. The EC have had a joint Skype meeting for updates of the activities in

the committees – please read the chairs reports in this issue. Planning of the ECDMFR 2018 in Switzerland is in progress and during the past months the officers, including Reinhilde Jacobs from the congress committee, have had several Skype meetings with the local organisers chaired by Dorothea Dagassan, to discuss their plans for a unique and fruitful congress in the beautiful environment of Lucerne. Save the dates, 14-16 June 2018, and find the invitation in this issue of the Newsletter.

Recently, the 4th Junior Meeting was successfully organised in Porto, Portugal 4-8 February 2017. Our local host, Ana Paula Reis, did a tremendous job planning the meeting in every detail, thank you Ana! In total 34 juniors from more than 20 countries participated, learned, networked and had a great time. They are our coming chairs and offices – and after listening to their presentations of themselves, and of their research and plans, I feel confident that the academy has a great future. My sincere thanks to the members of the Junior Committee, as well as the guest lecturers, Christina Lindh and Ralf Schulze, who always deliver according to commitment and with perfection - you all did a great job! Search “EADMFR” on Youtube and you will get a glance of what has been going on during the past Junior Meetings in videos prepared by Marius Bud – and read Linda Arvidssons report from the Junior Committee.

During the junior meeting several members of the task force were present, organising and giving lectures. We discussed possible solutions to raise the knowledge in DMFR for members who don't have access to specialist training programs in their countries, please see Francois Gabioud's report. More detailed ideas will be presented during the congress in Lucerne.

The Education Committee is planning a survey of the content of DMFR in the curricula in the dentistry programs in Europe. When it is released, I hope the committee will have your response. Looking forward to take part of the summary and results.

Only a short time ago, a team consisting of Kaan Orhan, Ralf Schulze, Dennis Rottke and Dirk Schulze, represented the academy during IDS in Cologne. They met with our industrial partners that are so important for our existency. I want to thank EADMFRs industrial partners, Morita, NewTom/Cefla, Planmeca and Dentsply Sirona, for making all the above mentioned activities possible, without you our achievements wouldn't have been possible. Also many thanks to all the sponsors of the Newsletter.

At this moment many of us are looking forward to IADMFRs congress in Kaohsiung, Taiwan, 26-29 April, 2017. I hope to meet many of you there. If not, I hope to see you all in Lucerne 2018.

Best wishes,

Eva Levring Jäghagen

Report from the Secretary

Dennis Rottke

Dear EADMFR members, dear friends,

Since our ECDMFR meeting in Cardiff, eight months have gone by and I have the impression that time is so fast nowadays. The position of the General Secretary is new to me and it took some time before the procedures were organized and the gears were interlocked. I am learning every day. Fortunately, I was supported in the initial phase by Dirk Schulze, my predecessor, who has his desk only a few metres away from mine.



Our organization has nearly 250 active members. Several 100 inactive members are also listed in our database. It would be a good thing if we succeeded in re-activating these people. My request to you is, therefore, to actively approach these people. Only in this way our organization can grow and remain successful.

With regard to the decision we made during the General Assembly in Cardiff in 2016, we started to transfer the membership administration to the AIM Group in Brussels, Belgium. However, this is a very time-consuming and complex matter. From 2017 the membership fees will be managed from there and a new registration platform will be set up that we have already evaluated in Brussels. The completion of this task could take a few more weeks, but you can be assured that it has one of the highest priorities for me. At this point I would like to thank the AIM Group team who have done a great job so far. Every single one was more than helpful and supported us with the realization of this project.

The next step in this process would be that the registration and abstract submission processes for our biennial ECDMFR meetings will also be completely handled by the AIM Group. From first hand, I can tell you that this will be an extreme relief for the Academy; as an organization we have now reached a size where it is time to put these things into professional hands. Obviously, this will cost money but, on the other hand, resources are being created that can be utilized elsewhere.

With a very low membership fee, we would not be able to realize these things without our sponsors, whom I would like to thank here. Of course, we hope that their support will be continued so that the Academy can grow and remain a platform for scientific exchange and networking.

I also would like to emphasize the outstanding work of the Junior Committee. It is wonderful to see how this European network of young scientists is emerging. To know that this would probably not have been possible without the Academy keeps us going. In February of 2017 we held the fourth junior meeting, which this year took place in Porto, Portugal.

Finally, my special thanks go to my Executive Committee, Central Council and Committee colleagues. It is very impressive to see how much time these people invest next to their regular job to bring the Academy forward. It is a pleasure to work with all of you.

With best wishes from Germany,

Dennis Rottke

Report from the Finance Committee

Chair: **Nicholas Drage** (UK)
Dirk Schulze (Germany)



The total assets of EADMFR at the end of 2016 stand at €161 824,96. EADMFR would like to thank the industrial partners for their financial support. The industrial partners for 2016 were Morita, Newtom, Planmeca, Sirona and Soredex. Part of the money was used to finance the European Congress of DentoMaxilloFacial Radiology in Cardiff. The money is also used to fund travel grants to allow young researchers to attend the congresses.

Details of the financial position are shown on the following page.

Thanks to Dirk Schulze for his continued support and also to Bernadetta Della Croce for her excellent management of the finances over the past year.

Nicholas Drage
Treasurer EADMFR

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1831 Machelen (Diegem)

RPR Brussel: 0836.400.415

*Financial statements for the year ended 31st December 2016***A. State of Revenues and Expenses**

EXPENSES		REVENUES	
Salaries	0,00	Partnerships	69 000,00
Administrative expenses	238 371,88	Memberships	2 465,00
Financial charges	2 603,65	ECDMFR	169 076,66
Other expenses	0,00	Other operating income	6 360,00
TOTAL EXPENSES	240 975,53	TOTAL REVENUES	246 901,66

B. Schedule accounting1. *Summary of the valuation rules :* (Article 6 de l'A.R. du 26 juin 2003)

Nihil

2. *Adapting assessment rules :* (Article 7 de l'A.R. du 26 juin 2003)

Nihil

3. *Supplementary information :* (Article 11 de l'A.R. du 26 juin 2003)

Nihil

4. *minimum standard scheme of the status inheritance*

ASSETS		LIABILITIES	
Land and buildings	0,00	Equity	51 342,48
Plant, machinery and equipment	0,00	Accumulated result	84 800,00
Amounts receivable	30 237,74	Suppliers	24 617,48
Current cash investments	80 197,06	Taxes and remuneration payable	0,00
Cash at bank and in hand	51 390,16	Miscellaneous amounts payable	1 065,00
TOTAL ASSETS	161 824,96	TOTAL LIABILITIES	161 824,96

5. *Important rights and obligations which are not capable of being quantified*

Nihil

Report from the Nomination Committee

Chair: **Kaan Orhan** (Turkey)
Lennart Flygare (Sweden)
Kostas Tsiklakis (Greece) co-opted



Dear Colleagues,

According to EADMFR's constitution, the Immediate-Past-President is also the chairman of the Nomination Committee. This committee's activities are focused on identifying potential candidates, who may be able to take a role as officer within our Academy, in particular as successors for the roles of Secretary, Treasurer, and President-elect. For the forthcoming period the next President-elect needs to be identified. To find new candidates is a demanding job and can be challenging for the appointed officers. Appropriate candidates are colleagues who serve our Academy unconditionally and enthusiastically. Since the Cardiff congress, the committee has been working towards recognizing individuals who might potentially be able to take a role as an officer within the EADMFR. Suggestions and further ideas by any of you are very much welcomed by emailing me at: call53@yahoo.com

With kind regards from Ankara, Turkey,

Kaan Orhan

Report from the Research and Scientific Committee

Chair: Bart Vandenberghe	(Belgium)
Azin Parsa	(Netherlands)
Spiros Damaskos	(Greece)
Kivanc Kamburoglu	(Turkey)
Bence Szabo	(Hungary)
Dorothea Dagassan	(Switzerland) Co-opted



Dear Colleagues, Dear friends,

2016 was quite a challenging year for most of us, but definitely also with some major highlights. Did you know that researchers at the University of Toronto were able to use stem cell therapy to prevent functional bone loss in a mouse-model of age-related osteoporosis¹ or that in September a Japanese team of researchers discovered a protein that may protect human cells of radiation damage²? Pretty exciting if you ask me, but maybe as exciting, was our biannual meeting, the XVth EADMFR congress, organized by the Cardiff team! It was a very nicely organized meeting, with excellent scientific content and fun evening activities.

It was a pleasure to work with the local organizing committee of the Congress (Drs Rose Ngu, Nicholas Drage and Jackie Brown) and especially with my new members of the Research and Scientific Committee (Drs Azin Parsa, Kivanc Kamburoglu and Spiros Damaskos) to organize for the first time a novel hands-on Workshop on Digital Imaging (Fig. 1), next to the already popular Ultrasound Workshop (Fig 2), which both took place on the first day of the conference . It took quite a lot of preparation in advance, with long skype meetings, but the hands-on exercises for both these sessions have been a huge success which is of course mostly due to the support of the companies that provided us with the necessary equipment and their on-site support. For the Digital Imaging Workshop, I have to thank (together with the entire EADMFR council) the company Nobel Biocare and their local UK team for providing computers, segmentation and planning software and guided surgery equipment, as well as 3Shape and their UK managers for providing the digital impression units. For the Ultrasound Workshop, the Academy and especially Dr Rose Ngu would like to thank Phillips, Toshiba, GE, Storz and Cook Medical for providing the sponsorship, ultrasound machines, the sialoendoscopy kit and interventional equipment for the course. An excellent overall feedback on the workshops has been received. We will do our best to continue to organize such sessions during the upcoming meetings, starting with the XVIth Congress in Lucerne.



Figure 1: Digital Dentistry Workshop during the EADMFR congress in Cardiff.

For the EADMFR 2016 research awards, we were surprised to see fewer applications this year, although the quality of the four finalists for the Oral Research Award, as well as the Posted Research awards, was very high. There was especially a decrease in Travel Grant and Research Fellowship applications and we would thus like to highlight once more to every teacher, supervisor or student in and outside our Academy the many awards (e.g. up to 10 travel grants of 1000 euro) that are available due the continuous support of our sponsors. Each member of the Research and Scientific Committee has carefully reviewed the different applications and the actual presentations during the congress (Fig. 3) to come up with as many as six prizes that were awarded (see Table 1), but only 4 travel grants. So we hope for a massive amount of applications for the coming congress!



Figure 2: Ultrasound Workshops at the XVth ECDMFR Cardiff.



Figure 3: Finalists for the EADMFR Poster Awards presenting their work at the XVth ECDMFR Cardiff.

EADMFR Research Awards	Winners	Research Project
Oral First Prize 1500€	Rubens Spin Neto	PATIENT MOVEMENT DETECTION COMPARING VIDEO OBSERVATION WITH A NOVEL THREEDIMENSIONAL TRACKING METHOD
Oral Second Prize (shared) 1000€	Chen Hui	RELIABILITY AND ACCURACY OF IMAGING SOFTWARE FOR THREE-DIMENSIONAL ANALYSIS OF THE UPPER AIRWAY ON CONE BEAM CT
Oral Second Prize (shared) 1000€	Codari Marina	IN-VITRO QUANTIFICATION OF THE IMPACT OF ARTIFACTS ON METAL SEGMENTATION AND IMAGE QUALITY WITH VARYING CBCTS, MATERIALS AND FIELD OF VIEWS
Poster First Prize 1000€	Louise Hauge Matzen	RADIOGRAPHIC PATHOLOGICAL FINDINGS DECISIVE FOR REMOVAL OF MANDIBULAR THIRD MOLARS IN PANORAMIC IMAGES COMPARED TO CBCT
Poster Second Prize 500€	Ibrahim Bayrakdar	CONE BEAM COMPUTED TOMOGRAPHY AND ULTRASONOGRAPHY IMAGING OF INTRAOSSEOUS JAW LESION: A PROSPECTIVE RADIO-PATHOLOGIC STUDY
Fellowship Award 4000€	Jeroen Van Dessel	VOLUMETRIC EVALUATION OF SOCKET HEALING AND DIMENSIONAL CHANGES IN ALVEOLAR RIDGE USING CONE-BEAM COMPUTED TOMOGRAPHY

Table 1. Overview of the winners of the EADMFR Research Awards 2016.

We also will very soon put some new guidelines on the website, since there had been a few disagreements and misunderstandings in the older set of award guidelines. Therefore, after the congress, we immediately started a revision of the older guidelines which consisted of several documents for each of the different awards, making it complicated and unclear for the candidates. The proposal by the EADMFR council to come up with one set of clear guidelines has thus been one of the Research and Scientific Committee's most recent tasks and will be finalized shortly to avoid any future misunderstandings.

To conclude this report, I wish you all a happy and healthy 2017! To those of you eager to feed your scientific brains, please make sure not to miss one of the upcoming

DMFR meetings this year, like the 9th Iranian Oral and Maxillofacial Radiology Congress in Tehran or the 21st International Congress of Dental and Maxillofacial Radiology in Koahsiung, where we can raise our glass and exchange knowledge and ideas in person!

Cheers,

Bart Vandenberghe

REFERENCES:

1. Jeffrey Kiernan, Sally Hu, Marc D. Grynpas, John E. Davies, William L. Stanford. Systemic Mesenchymal Stromal Cell Transplantation Prevents Functional Bone Loss in a Mouse Model of Age-Related Osteoporosis. *Stem Cells Trans Med*, March 17, 2016 DOI: 10.5966/sctm.2015-0231
2. Takuma Hashimoto et al. Extremotolerant tardigrade genome and improved radiotolerance of human cultured cells by tardigrade-unique protein". *Nature*. 20 September 2016. Doi: 10.1038/ncomms12808

Report from the Education Committee

Chair: **Jan Ahlqvist** (Sweden)
Anastasia Mitsea (Greece)
Erdogan Fisekcioglu (Turkey)
Kazimierz Szopinski (Poland)
Silvina Friedlander-Barenboim (Israel)
Rosalyn Clarkson (UK)



DentoMaxilloFacial Radiology is very important in dental care, not least with increasing demands on the quality of diagnostics and documentation. With increasing internationalization, including free movement within Europe, working towards common standards in undergraduate education is particularly important.

The Education Committee has the objectives of encouraging high standards in dentomaxillofacial radiology all over Europe and to encourage and support high levels of graduate and postgraduate education in dentomaxillofacial radiology all over Europe. It should also work to simplify the European directives concerning education in dentomaxillofacial radiology within the basic training of dentistry. A fundamental requirement, in order to fulfill these objectives, is to strive for uniformity in the knowledge gained by the students during undergraduate education to ensure a common base of knowledge among colleagues interested in specialist training.

For this reason the education committee has decided to put together a document describing undergraduate education within dental and maxillofacial radiology in Europe. By means of a questionnaire the committee wants to compile quantifiable information regarding time and resources provided the undergraduate students within dental and maxillofacial radiology in the European dentistry programs. The resulting document is intended to show averages and spread regarding time and resources provided, and serve as a benchmark against which individual schools, and/or countries, can relate their undergraduate education when planning and realizing changes and/or evaluating curricula. In this way it could form a valuable tool that can be used to achieve greater uniformity between countries and schools. The members of the education committee therefore encourage all members of EADMFR to promote this survey and to reply to the questionnaire that will be sent out during the course of this year.

On behalf of the education committee I wish you all a successful 2017.

Jan B Ahlqvist

Report from the Junior Committee

Chair: Linda Arvidsson	(Norway)
Rose Ngu	(UK)
Kaan Orhan	(Turkey)
Dennis Rottke	(Germany)
Ingrid Rozylo-Kalinowska	(Poland)
François Gabioud	(Switzerland)
Rubens Spin-Neto	(Denmark)
Eva Levring Jäghagen	(Sweden)
Marius Bud	(Romania)



Dear Friends and Colleagues,

First I would like to congratulate Nicolas Drage and his team for arranging a very successful ECDMFR in June 2016 and express my thanks for the lovely days we all spent in Cardiff!

It is with great humility that I have taken over as chair of the Junior Committee (JC). My predecessor Eva Levring Jäghagen has done a fantastic job with this committee from the beginning in Leipzig 2012. I am pleased that she is still very committed to the JC and will continue as a committee member, even though she is now the president of the EADMFR. I will do my best to continue this work in the very active and dedicated JC in order to make EADMFR attractive to younger members. By arranging separate meetings for the juniors in an informal setting we believe it is easier for them to meet colleagues, establish an important network and to make friends. For some of the participants the junior meeting gives them their first chance to present for an international audience. This experience will hopefully lower the threshold to participate in the next congress of the EADMFR, and make them become part of the community, continuing as members for the rest of their career.

Junior film reading session at the 15th ECDMFR in Cardiff, Wales

This session began with a presentation of the of 3rd EADMFR Junior Meeting in Lublin, Poland by two of the participants from the meeting; Liene Zamure, Riga Stradins University, Latvia and Joanna Gullberg, Malmö University, Sweden. After their excellent presentation, the session continued with interactive film reading where the participants were presented to various DMFR-cases and answered questions via an audience response system. I would like to thank Eva Levring Jäghagen and Kaan Orhan for good collaboration in the preparation and presentation, and Nicholas Drage and the organizing committee for giving us the space in the schedule and for providing us with the voting system. These sessions arranged by the JC have become a recurring and successful activity in the European meetings and was first meant to be part of the strategy to provide the juniors with suitable activities.

The session however, proves to be popular among participants on all levels of experience and we hope to be able to continue this tradition in the next ECDMFR in Luzern.

The 4th EADMFR Junior Meeting in Porto, Portugal

As I am writing this, the 4th EADMFR Junior Meeting (February 5th – 8th 2017) has just finished. Thirty-four juniors, representing 21 different countries, and 12 lecturers and committee members have participated in the meeting. The topics of lectures and seminars included Radiation doses from DMFR, an evidence-based radiology task, ultrasound in head and neck including hands on training, temporomandibular joint, how to write a scientific paper, clinical cases and interactive image reading and oral and pharyngeal function. Furthermore, presentations of DMFR programs in Europe and presentations of scientific work by the juniors themselves were given.



Figure 4: Participants at the 4th Junior meeting in Porto

I wish to express my sincerest gratitude towards the local organizer Ana Paula Reis whose extensive effort with preparations have made it all possible. She and her team made the 4th EADMFR Junior Meeting an unforgettable experience in the beautiful city of Porto. Thank you so much! I also want to thank the lecturers Christina Lindh and Ralf Schulze for their valuable contribution to the Junior Meeting, all the members of the JC for their committed work and contributions and especially Eva, Kaan and Dennis. Also thanks to Marius who has prepared the traditional summary of the junior meeting published on YouTube. A special thank you also goes to Bernadetta and to our sponsors and industrial partners: NewTom, Morita, Planmeca and Dentply Sirona.



Figure 5: The members of the Junior Committee and the local organising committee



Figure 6: Workshop with ultrasound training and lecture during the junior meeting

Now, the preparations for the 5th Junior Meeting are already beginning and we hope to announce the date and venue shortly. Please encourage any juniors at your department who have not already participated in previous meetings to apply for the next!

Best wishes

Linda Z. Arvidsson

Report from the Specialisation Committee

Chair: **Ingrid Rozylo-Kalinowska** (Poland)
Bamse Mork-Knutsen (Norway)
Tomislav Lauc (Croatia)
Paul Nixon (UK)



Due to increasing volume of dental X-ray equipment available for dental practitioners, recognition of dentomaxillofacial radiology as a separate specialisation seems indispensable.

Probably most panoramic radiographs and CBCT datasets taken in Europe are handed over to patients as digital data only, without a written report. Moreover it is not always clear how many machines there are in each country and, even more importantly, how many dental CBCTs are taken annually. In some countries like Sweden, CBCT examinations are refunded by the public health service and therefore the numbers of scans are exactly recorded. For example in 2015 as many as 20 000 CBCT exams were performed by means of 100 machines in that country. It is estimated that in Switzerland there are 400 CBCT units, in Poland and in the UK around 600 in each, and in Germany over 2000. Out of these four countries with high numbers of CBCT machines, dentomaxillofacial radiology is recognized as a specialty only in the UK. Germany and Switzerland lack qualified dentomaxillofacial radiologists, as does does Poland.

It seems that currently Poland is further away from introduction of dentomaxillofacial radiology as specialisation than ever. This is due to new concepts of the Ministry of Health to reshape completely the Polish system of specialisations, which have been criticized for an excessive number of detailed specialties, reaching 78 in medicine and nine in dentistry. The German model of specialisation (including only orthodontics and maxillofacial surgery) is now supposed to be the guiding light for the authorities. At least according to a group of departmental advisors, dentomaxillofacial radiology should be recognized only as a so-called, board certified, “additional ability”.

The situation is different in countries with low number of inhabitants like Croatia where there is a limited need for specialisation in dentomaxillofacial radiology. Therefore international European specialisation or subspecialisation in DMFR would fully satisfy the needs in Croatia. Specialisation in general radiology covers a large part of the basic topics that would be covered by DMFR specialisation. Therefore, according to Tomislav Lauc, a member of the Specialisation Committee,

subspecialisation in dentomaxillofacial radiology would fully meet the needs of radiological diagnosis of the maxillofacial area. Such a subspecialisation should be possible after specialisation in Radiology as well as after some of specializations in dentistry or general medicine (eg, oral surgery, maxillofacial surgery, orthodontics, oral medicine, ETN etc.). This should also be a topic of discussion.

In countries in which dentomaxillofacial radiology is recognized, the postgraduate specialization programme in maxillofacial is quite popular. For example in Norway each year there is a number of well-qualified applicants. In Oslo there are candidates in all three stages of the programme and, in 2017, two candidates hopefully will pass their exams. The Norwegian Dental Association had chosen radiology and diagnostics as a topic in its annual Holmenkollen Symposium in March 2016. Almost 400 general practitioners took part in the event, which was moderated by Drs. Anne Møystad and Bamse Mork-Knutsen. Professor Stuart C. White was invited as key-note speaker, and almost all the Norwegian specialists in maxillofacial radiology were lecturing. In June 2017, the Midnattsol Symposium (Mid-Night Sun Symposium) in Tromsø will be arranged with the same moderators and topics. Stu White will also attend at this symposium. In 2017 the Norwegian Association of Maxillo-Facial Radiology will celebrate its 15 years anniversary, and also ten years of Maxillo-Facial Radiology as an officially recognized speciality in Norway. The jubilee meeting will be arranged in Bergen on the 8th and 9th of September 2017, and the Norwegian colleagues are looking forward to a great celebration.

The past and previous chairs of the Specialisation Committee are a part the “Task Force” working group of the Academy created in order to establish a pan-European post-graduate training in dentomaxillofacial radiology (see report in this Newsletter). The Specialisation Committee will maintain their contribution to this group, as well as working for further recognition of the speciality throughout Europe and the design of post-graduate clinical Specialization-programs.

For the Specialisation Committee,

Ingrid Rozylo-Kalinowska

Report from the Selection Criteria and Radiation Protection Committee

Chair: **Erwin Berkhout** (Netherlands)
Anni Suomalainen (Finland)
Rubens Spin-Neto (Denmark)
Hakan Kurt (Turkey)
Louise Hauge Matzen (Denmark) co-opting
Dan Brüllmann (Germany) co-opting
Ralf Schulze (Germany)



Dear colleagues,

As I am writing this in the first days of 2017 I wish all of you a wonderful and harmonious year! After a rather busy 2015 for the committee, 2016 was quiet. At the request of Ruben Pauwels, some feedback was given to the draft version of an ICRP publication on radiological protection in CBCT. Only a few pages in this publication deal with applications of CBCT in dental and maxillofacial radiology. Most of the publication deals with general, CBCT-related, radiation protection matters. Interesting, but not too much work for the committee as the authors did an excellent job! Meanwhile the document has been published as ICRP Publication 129.

The Cardiff conference of EADMFR in June was great, interesting and very well-organized. Thank you Nick Drage and team! After the Cardiff congress some changes in the membership of the committee took place. Dennis Rottke left the committee as he became an Officer of the Academy (Secretary). This 'job' will consume a considerable amount of time and therefore Dennis chose to leave the committee. Dennis has been replaced by another German heavyweight (all figuratively of course ;). I would like to welcome Ralf Schulze as member of the committee! A warm welcome also for Rubens Spin-Neto from Denmark and Hakan Kurt from Turkey!

At the Cardiff conference a very interesting lecture was given by Louise Hauge Matzen from Aarhus, Denmark on the efficacy of CBCT before mandibular third molar removal. In the discussion after the lecture it was suggested to make a proposal for updating the relevant guideline in EU Radiation Protection guideline no. 172 (CBCT for dental and maxillofacial radiology). This year our committee will write this proposal. Louise Hauge Matzen as well as Keith Horner, because of their knowledge of the subject and knowledge of guideline 'procedures' (respectively) were co-opted to the Committee to support this process. Welcome Louise and Keith!

Kind regards,
Erwin Berkhout

Report from the Congress Committee

Chair: **Karin Näsström** (Sweden)
Raluca Roman (Romania)
Reinhilde Jacobs (Belgium)
Kaan Orhan (Turkey)



Dear friends and colleagues all over the world!

Last year, in June 2016, we all had the great opportunity to meet at the 15th European Congress in Cardiff, Wales, UK. Under the leadership of Dr Nicholas Drage, Chairman of the Local Organizing Committee (LOC), and with the support of a great LOC team, delegates were offered a perfectly arranged and interesting EADMFR Congress. I guess we can speak for all participants, when saying that we all enjoyed this congress very much. Both the scientific and social programmes were very well organised, yielding a perfect outcome of the congress! We will surely all keep great and unforgettable souvenirs of this successful congress and thus we extend many extra thanks to Nicholas Drage and his wonderful LOC team in Cardiff.

We are now looking forward to meet all of you at the next, 16th European Congress of the EADMFR in 2018, which will be held in Lucerne and arranged by Dr Dorothea Dagassan and the Swiss local organizing team. We are convinced it will be another successful congress and at the same time give us the opportunity to experience a little of Switzerland. Lucerne is an internationally very well-known town, full of interesting and exciting history, surrounded by a wonderful nature. We all strongly recommend you to come! Details about the congress will later be available on the website at www.eadmfr.eu and you will also find more information of the congress and Lucerne in this and the next issue of the Newsletter.

During the EADMFR in Cardiff, the congress committee also received alternative bids. After careful consideration, the next host to hold the 17th Congress of EADMFR in 2020 was proposed and approved during the general assembly meeting in Cardiff. We are thus happy to announce that Jerusalem, Israel, will be the 2020 EADMFR destination. Dr Silvina Friedlander and her team are very much looking forward to welcome us to Jerusalem. The alternative bid from Lublin, Poland was also carefully considered, and proposed during the general assembly meeting in Cardiff to hold the 18th Congress of EADMFR in 2022. They are happy to welcome us all to Lublin, Poland in 2022. Information of how to apply to host a future EADMFR Congress will be placed on the website during this spring 2017.

Karin Näsström

Report from AIM

Bernadetta Della Croce
EADMFR Secretariat



Our work supporting Nicholas Drage and his team, as well as the executive committee's involvement have been rewarded by a very successful congress.

The 2016 ECDMFR offered to visitors a great exhibition with 30 exhibitors: the EADMFR Partners and other local exhibitors. This success is mainly attributed to the Cardiff team's hard work and in particular to Rose Ngu.

AIM is now looking forward to collaborating for the preparation of the next ECDMFR in Luzern, in 2018. A site inspection has been already organised and we will do our utmost to offer all our support to the local team in organising yet another successful congress.

During the General Assembly held at the Cardiff Congress, the new President, Eva Levring Jäghagen, the new Vice President, Keith Horner, and the new Secretary, Dennis Rottke, have been appointed.

As throughout our six years of long collaboration, AIM is now working closely with the new team to promote the interests and ensure the smooth running of EADMFR and is glad to continue working with Nicholas Drage who remains the treasurer of the academy.

AIM is very proud to have been appointed for additional services: the maintenance of the website, as well as the management of the new membership system. So please for any queries do not forget to contact me at aims@eadmfr.eu.

Best regards,

Bernadetta

The Task Force for a European DMFR training program



Chair: François Gabioud	(Switzerland)
Jackie Brown	(UK) co-opting
Reinhilde Jacobs	(Belgium)
Eva Levring Jäghagen	(Sweden)
Bamse Mork-Knutsen	(Norway)
Kaan Orhan	(Turkey)
John Rout	(UK) co-opting
Ingrid Rózylo-Kalinowska	(Poland)
Dirk Schulze	(Germany)
Ralf Schulze	(Germany)
Rubens Spin-Neto	(Denmark)

Dear Colleagues and friends,

Prior to the Cardiff Congress, the Task Force had worked hard for two years in order to gather a strong task force that could define the demands for a European DMFR training programme. During the process we have faced several challenges to provide a programme, such as achieving clinical training and costs for courses and learning platforms; also administrative and copyright issues. These issues were presented during a round table session at the ECDMFR in Cardiff, with a proposal to define the demands for a European DMFR diploma/accreditation but to change the way of achieving it.

The suggestions presented to the general assembly were:

- make a plan for how to qualify to participate in an exam in DMFR for EADMFR members who have a complete portfolio in DMFR, as defined by the academy;
- define the minimum requirements of learning objectives and training for the portfolio;
- set up an Accreditation group of recognised and experienced Professors in DMFR, to identify accredited courses and training centres.

After the Cardiff Congress, during our skype meetings as well as by personal job of Task Force members, we had suggestions on how to achieve these three tasks. The next step is to identify already existing DMFR courses delivered by Radiological societies and by the European universities suitable for the task. By that means we aim to also identify what specific courses EADMFR need to set up as supplements to make it possible to reach all learning objectives.

The idea is also that all potential participants for the programme have a supervisor who can guide them through the process and advise them when they are ready to go for the exam. The criteria for being a supervisor need to be set. The plan is that the final examination will be conducted during or in connection with one of EADMFR congresses. We have also approached some of our prominent members for the Accreditations group.

With these last words I will thank all of you who have helped, are helping or will help the Task Force in this exciting work. I hope to present a more detailed plan during the XVI ECDMFR in June 2018 in Lucerne (Switzerland) where I hope to see all of you!

François Gabioud

The 15th European Congress of DentoMaxilloFacial Radiology 15-18 June 2016 in Cardiff, Wales

The 15th ECDMFR was held at City Hall in the centre of Cardiff. Over 230 delegates attended the congress with an additional 48 delegates attending on the Friday. The venue proved excellent with the oral presentations given in parallel sessions in the Assembly room and Ferrier Hall. The posters were set up for the duration of the congress in the Marble Hall and the Lower Hall. These rooms were very good as there was plenty of room to look at and discuss the posters with the presenters.



Figure 7: Delegates enjoying a poster session in the Marble Hall (left) and Scientific session in Assembly Room (right)

During the congress there were five key note talks, delivered by Rhodri Evans, Eric Whaites, Jackie Brown, Louise Hauge Matzen and Jim Thurston. All the talks were very high quality and very well received. The programme also included a junior film viewing session - this was a fully interactive diagnostic session using voting handsets which again was really enjoyed by the delegates.

On the Thursday we ran two hands-on workshops. Each was attended by at least 20 delegates. The first workshop was an interactive workshop on digital dentistry led by Bart Vanbenburghe and the second a workshop on the use of ultrasound in the head and neck including salivary endoscopy led by Dr Rose Ngu. This was the first time that workshops were introduced into a congress and they proved very successful. It is hoped similar workshops will be run in future congresses.

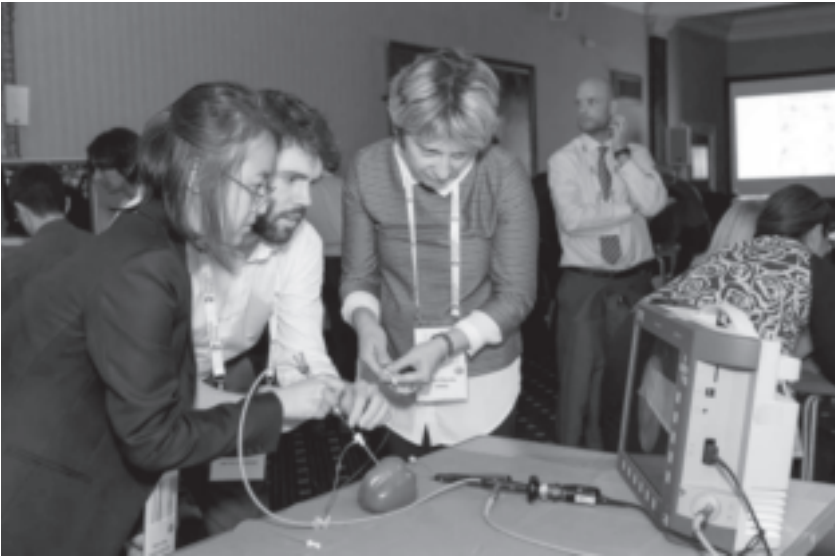


Figure 8: Ultrasound workshop – delegates practicing endoscopy on a Pepper!!



Figure 9: The immediate past president (Ralf Schulze - left), the President Elect (Eva Levring-Jaghagen - centre) and the President of EADMFR (Kaan Orhan - right) enjoying the opening ceremony at City Hall

The opening ceremony was held in City Hall and included a performance by City Voices followed by dinner. The Dinner on the Thursday night was held at the National Museum. This included a drinks reception in the Gallery amongst the Impressionist

paintings and the Cowbridge Male Voice Choir singing the guests down to dinner from the balcony.

The Gala Dinner was held in the Principality Stadium. Before dinner we had a tour of the stadium which is the home of Welsh Rugby Union. The Stadium is also due to hold the UEFA Champions League final in 2017. After the dinner delegates enjoyed dancing to a live band and also using the photo booth!

I would like to thank the local organising committee and the team at AIM, particularly Bernadetta and Isabelle for making the congress a great success and wish Lucerne well for their congress in 2018.

Nicholas Drage

Chair of the Local Organising Committee



29th ESHNR Annual Meeting and Refresher Course, September 22-24, 2016, Leiden, Netherlands



Chair: **Ingrid Rozylo-Kalinowska**
Chair of the Specialization Committee

Dear Colleagues,

It is a great pleasure to meet more and more members of the EADMFR during the consecutive Congresses of the European Society of Head and Neck Radiology (ESHNR), since both disciplines overlap in the maxillofacial area and closer cooperation between the two of them is encouraged.

In 2016 the 29th Congress and the Refresher Course of the ESHNR was held in Leiden in the Netherlands and the president of the Congress was Dr. Berit Verbist from the Leids Universitair Medisch Centrum.

This time all the lectures were held in one room only but on the other simultaneous workshops were organized. The sessions were divided into Scientific Sessions, Short Oral Presentations as well as New Horizon Sessions. The latter were most stimulating and dealt with elastography (not only in thyroid), Ultra High Field MRI and proton therapy. The topics of the Scientific Sessions ranged from anatomy to pre- and postoperative imaging in paranasal sinuses and skull base, hearing loss and oncology. Among abstracts accepted for Short Oral Presentations MRI imaging prevailed, but papers on ultrasound and CBCT were presented as well. This time the organizers introduced a new type of presentation called a 'Poster snapshot'. Presenters of the best posters were assigned 3 minutes to comment on their findings during the oral sessions. I consider this an excellent idea, because all the participants were not able to browse through all electronic posters during 3 days of the conference. The posters can now be found on the EPOS electronic poster system.

As always the Congress was accompanied by Refresher Courses. This year the impact of the educational sessions was placed on cranial nerves and perineural spread, head and neck trauma, oral cavity, oropharynx and salivary gland tumours. The session dedicated to head and neck trauma consisted of three lectures – laryngeal trauma, trauma of the skull base and orbital trauma. All of them were most informative and provided numerous practical hints to be used in everyday practice. It is worth underlining that although the last two refresher courses were held in the afternoon after the closing ceremony of the congress, the lecture hall was still full of attentive

members of the audience. Educational value of the meeting was further increased by the “Case-based learning session with the expert”.

One of the highlights of the conference were critically acclaimed workshops. Our colleagues who attended the Anatomy workshops on spaces of neck and larynx praised the opportunity of performing neck dissection on cadavers thus relating radiology to anatomy. I had a chance to attend Ultrasound hands on workshop which was focused on head and neck lymph nodes with an interesting approach – 7 sweeps. After live demonstration of 1 or 2 sweeps the participants moved to 11 ultrasound units to practice on volunteers. It was fantastic that every time we could (and should) change the machine and teacher in order to practice more and gain knowledge from different sonographers. I sincerely thank the team from Swansea for this flawless workshop.

The 29th ESHNR Congress was an excellent opportunity for scientists and practitioners to meet, exchange experiences and gain cutting edge knowledge. However, in future, more cooperation between specialists in Dentomaxillofacial radiology and Head & Neck radiologists might refine the content of the lectures regarding pathology in the maxilla and mandible. The two groups of specialist have different background and competence, and various experience of CT, MRI and CBCT. The next ESHNR meeting will be held in Lisbon, Portugal 28-30 September 2017. More information is available at <http://www.eshnr.eu/>. I hope to see many of the EADMFR members there!

Ingrid Rozylo-Kalinowska

IAEA 2nd Consultancy meeting on Radiation Protection in Dental Uses of Ionizing Radiation

Over the last 18 months, several members of EADMFR have been working as invited experts in a multidisciplinary international project on Radiation Protection in Dental Radiology, initiated by the International Atomic Energy Agency (IAEA) Radiation Protection of Patients Unit. The objective of the project was initially to develop a package of training material on radiation protection in dentistry, which will be freely accessible. A first meeting was held at the IAEA headquarters, United Nations in Vienna, in February 2016 at which draft material, developed by Ruben Pauwels, was presented and reviewed. It was proposed at this meeting that the group should also prepare a formal IAEA Safety Report on Radiation Protection in Dental Radiology.

Work on revising the training material and preparing the draft Safety Report has been taking place over the course of 2016. A second Consultancy meeting on Radiation Protection in Dental Uses of Ionizing Radiation was held from 20 -24 February 2017 in Vienna. It is anticipated that the material will be reviewed by participating organisations during the course of 2017 prior to publication. Further details can be found at: <https://rpop.iaea.org/RPOP/RPoP/Content/News/2017-3-cs-dental.htm>



Figure 10: The members of the group (left to right): Mohammed Parker, Slavik Tabakov, Ruben Pauwels, Virginia Tsapaki, Ralf Schulze, Keith Horner, Jenia Vassileva, Dirk Schulze.

It is great to see such a strong EADMFR representation in this group. The commitment of IAEA to this project is also testament to the importance that they give to radiation protection in dentistry. We will keep EADMFR members informed about this project.

Keith Horner

16TH European Congress of Dentomaxillofacial Radiology (ECDMFR) 14-16 June 2018, In Lucerne, Switzerland



Figure 11: Image of Lucerne (© Luzern Tourismus / Fotograf)

Dear colleagues, dear friends,

On behalf of the local organizing committee and the "Swiss Association of Dentomaxillofacial Radiology" we invite members of the EADMFR to join us all in June 2018 for the next ECDMFR Congress in Lucerne, Switzerland. The congress will discuss scientific breakthroughs, current challenges and future trends of DMFR. Lucerne offers a unique opportunity to meet specialists from EADMFR, researchers from Universities and colleagues from private practices interested in DMFR. Furthermore, the city of Lucerne is geographically located in the heart of Switzerland and Europe. Lucerne ranks amongst the world's prettiest cities surrounded by the beautiful lake and mountains.

The conference will take place at the "The Swiss Museum of Transport in Lucerne" – the one-of-a-kind, Verkehrshaus' (Fig. 12) - just a few metres away from the beautiful shores of Lake Lucerne. An outstanding social programme has also been arranged for accompanying guests and families. One of the meetings social highlights will certainly be the "Swiss Evening" to be held on Thursday that will feature traditional dishes and other surprises that make up for our famous "Swissness".



Figure 12: Exterior and interior images of the Verkehrshaus.

Last but not least, the scientific program promises also to be exciting. The kick-off will be a pre-congress course on the topic of "The virtual patient" on Wednesday, where internationally renowned experts in the field will present the state-of-the-art in imaging and processing of data to provide a functional work-flow for an all-digital treatment concept. The main congress - held from Thursday to Saturday - will have key-note lectures on many hot topics in the field of medical and dental radiology focusing on current and future challenges of our specialty. Other highlights will include the traditional junior film reading session, the research competition, and also the many exciting presentations of current research by known experts and young scholars.

It is with great pleasure that we are all looking forward to welcoming you in great numbers to the upcoming ECDMFR in Lucerne to show that EADMFR is alive and kicking ...

Further congress information can be found on the EADMFR website. Other useful websites about the venues and social programme are listed below:

<http://www.luzern.com/de/index.cfm>

<http://www.myswitzerland.com/en/lucerne.html>

<https://www.verkehrshaus.ch>

...best wishes from the hosts:

EADMFR – The European Academy of Dentomaxillofacial Radiology, and...

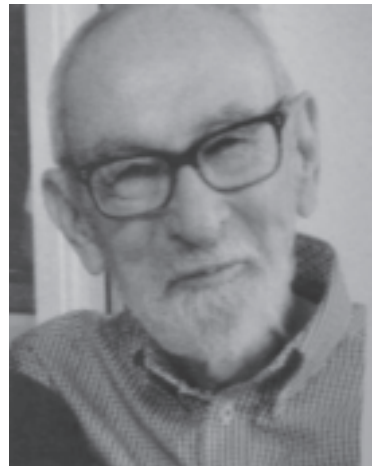
...bis bald, à bientôt, a presto, a revoir from the local organizing committee

SADMFR – Swiss Association of Dentomaxillofacial Radiology

Prof. Dr. Michael Bornstein

Dr. Dorothea Dagassan-Berndt

Obituary: Frederich Anton Pasler DDS, PhD 1924-2016



Professor Pasler died on 24 November 2016 at the age of 93. He was an Honorary Member of EADMFR. Professor Pasler was one of those who responded to Professor David Smith's invitation to European Dental Radiologists to a meeting of the British Society of Dental Radiology in 1986. It was felt that there was a need for a European forum to discuss not only clinical subject but training and matters relating to the Medical Directives being established by the European Union. The general feeling was for another congress where these matters could be discussed. Prof. Pasler offered to hold the Congress in Geneva in September 1987. The 1st European meeting of DMFR in Geneva was attended by 136 delegates from 28 countries and 68 papers were presented. We were indebted to Prof. Pasler for this highly successful meeting, which he organised almost singlehanded.

Frederich Pasler, the son of a dentist, qualified in Innsbruck, Dr.med in 1951 and in Dentistry 1953. Previous to university he was a Dental Technician, an experience that was used by the American 101st Airborne Division after the War. He taught at Berne University 1963-66 and then at The University of Zurich where he specialised in DMFR. In 1980 he succeeded Prof. Perrelet in the Division of DMFR in the Faculty of Medicine, Geneva. Prof. Pasler was awarded the prestigious Paatero Medal by the University of Helsinki for his work on Orthopantomography. He retired in 1989 as Professor Emeritus of Geneva University.

His book on Dental Radiology (1972) was translated into French and went to 3 editions, a second Dental Radiology book (1981) was published in 5 editions and translated into 5 languages and his 1991 Radiology book in Georg Thieme series went to 2 editions and 6 translations. His major Colour Atlas of Dental Medicine (Radiology) in 2003 (Thieme) was translated into 6 languages. He published a Pocket Atlas of Dental Radiology with Prof. Heiko Visser in 2007. Professor Pasler was made an Honorary Member of the Austrian Society of DMFR and of EADMFR. His other interests were Art history and sport. He excelled at the latter and had been a Hammer Thrower for 30 years. In 1942 he won the Bronze medal in the German Youth Championships and a Gold medal at the first post-war Univ. Championships. He was Austrian Champion in 1949,-51 and -52 and held the Tyrolean record for 36 years from 1961 to 1997.

Brian O'Riordan

Acknowledgements

Last but not least, thank you all contributors (in alphabetical order), without whom this newsletter would not have been completed:

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Karin Näsström

Kaan Orhan

Brian O’Riordan

Dennis Rottke

Ingrid Rozylo-

Kalinowska

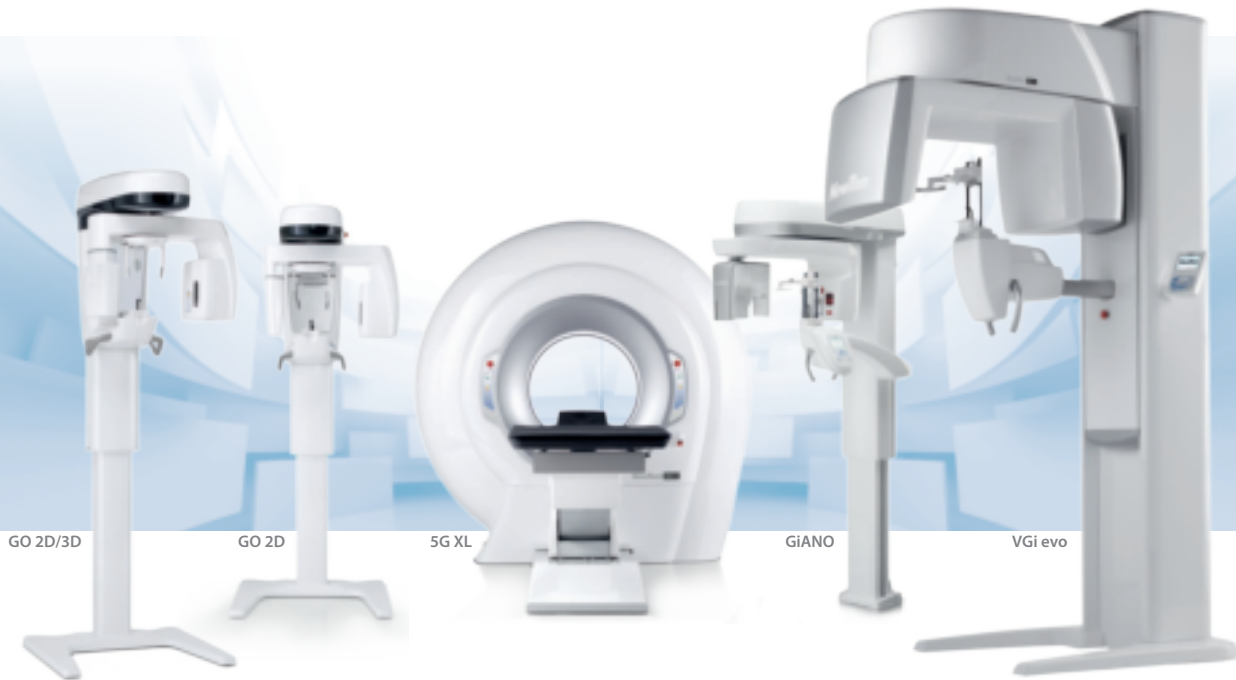
Bart Vandenberghe



The Newsletter is also available on EADMFR’s website
www.eadmfr.eu

THE DNA OF A LEADER

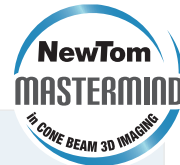
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