

2nd Annual MRI Symposium

Thursday, November 2nd – Friday, November 3rd, 2023
McNamara Alumni Center, Memorial Hall
University of Minnesota, Minneapolis Campus

Web link to register:

<https://dentistry.umn.edu/continuing-dental-education/courses/2nd-annual-dental-mri-symposium>

Program

Thursday, November 2nd, 2023

- 7:30 AM Registration and Light Breakfast
- 8:00 AM Opening remarks, *Donald Nixdorf, University of Minnesota*
- 8:10 AM Official welcome, *Keith Mays, Dean of School of Dentistry*

Moderator: *Beth Groenke, University of Minnesota*

- 8:20 AM **Dental MRI: Perspective and Experience from using a 3.0 Tesla Scanner**
Tim Hilgenfeld, University of Heidelberg
- 9:15 AM Two 15-minute Lightning Presentations
- Why dentinal microcracks are detectable with a sub-millimeter resolution MRI
Djaudat Idiyatullin, University of Minnesota
- Experience using MRI for dental clinical care
Florian Probst, University of Munich
- 9:45 AM Refreshment Break and Networking Session

Moderator: *Lars Gaalaas, University of Minnesota*

- 10:15 AM **Dental-Dedicated MRI: Perspective and Experience from using a 0.55 Tesla Scanner**
Rubens Spin-Neto, Aarhus University
- 10:55 AM Three 15-Minute Lightning Presentations
- Comparison of TMJ images obtained at 0.55T and 1.5T

Beth Groenke, University of Minnesota

Tailoring MR image acquisition to dentistry
Andreas Greiser, Siemens Healthineers

Endodontic applications of MRI
Donald Nixdorf, University of Minnesota

12:00 PM Lunch provided and Networking Session

1:00 PM Return to session

1:10 PM **Navigating education aspects related to implementing MRI technologies into dentistry**
Lars Gaalaas, University of Minnesota

2:25 PM Two 15-minute Lightning Presentations

Leveraging MRI'S collaborative innovation strategy in dentistry
Lars Lauer, Siemens Healthineers

German perspective of dentists owning and operating MRI scanners
Monika Probst, Technische Universität München

3:10 PM Refreshment Break and Networking Session

5:00 PM Adjourn

5:30 PM Social & Networking Off Campus

Friday, November 3rd, 2023

7:30 AM Light Breakfast

8:00 AM Preview of the Day's Agenda
Donald Nixdorf, University of Minnesota

Moderator: Lars Gaalaas, University of Minnesota

8:10 AM **Innovative RF Coil Designs for Enhancing Diagnostic Potential of MRI for Dental Applications**
Ali Özen, University of Freiburg

9:00 AM One 15-minute & one 25-minute Lightning Presentation

Evolution of a dedicated Dental MRI coil
Manuel Brückner, NORAS MRI products GmbH

MR Safety of Intraoral Coils for Dental Applications
Agazi Tesfai, University of Freiburg

10:00 AM Refreshment Break and Networking Session

Moderator: *Beth Groenke, University of Minnesota*

10:30 AM **Lessons Learned from Building a Head-only MRI Scanner: Implications for Designing Future MRI scanners Dedicated for Dental Applications**
Mike Garwood, University of Minnesota

11:20 AM One 25-minute Lightning Presentations

Superconducting magnet considerations for non-hospital environments
Ben Parkinson, Victoria University of Wellington

12:00 PM Farewell, *Kristin Artinger, SOD Associate Dean of Research*

Adjournment & Directions, *Donald Nixdorf, UMN*

12:10 PM Lunch provided and Networking Session

1:00 PM Optional tour of CMRR