

# SUMMER SCHOOL OF DENTAL BIOMATERIALS



## *Molecular and Structural Engineering of Resin Based Dental Materials*

**Date: August 16 – 18, 2023**

**Place: Seili Island, Turku Archipelago, Parainen, Finland**

<https://www.utu.fi/en/units/cerut/archipelago-research-institute/Pages/home.aspx>

<https://en.wikipedia.org/wiki/Själö>

Summer School Hosts:

Professor Pekka Vallittu (University of Turku)

Professor Arzu Tezvergil-Mutluay (University of Turku)

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## Day 1

- 16.00           Arrival to Seili island
- 16.30-16.45    ***Welcome / Introduction of the course participants and lecturers***  
Arzu Tezvergil-Mutluay and Pekka Vallittu
- 16.45-17.45    ***Polymer composition engineering***  
Dr Hilde BM Kopperud, NIOM, Norway
- 18.00           Dinner
- 19.00-22.00    Introduction to Finnish SAUNA  
Networking and discussions on research planning

## Day 2

- 8.15-9.15       ***Polymer composition engineering*** Part II  
Dr Hilde BM Kopperud, NIOM
- 9.15-10.15     ***Why and how to create new structures and molecules for restorative materials***  
Dr Frank Pefferkorn, Dentsply
- 10.15           Coffee Break
- 10.30-11.30    ***The chemistry and physics behind dental material curing***  
Dr Marcel Werner, Coltene Whaledent
- 11.30-12.00    Discussion and conclusions
- 12.00-13.00    Lunch break
- 13.00-14.30    ***Composite properties and their clinical relevance***  
Prof Martin Rosentritt, Regensburg, Germany
- 14.30           Coffee break
- 15.00-16.30    ***Engineering high-strength composite materials***  
Prof. Pekka Vallittu, University of Turku
- 16.30-18.00    A visit to the Archipelago Research Institute and Finnish history
- 18.00           Dinner
- 19.00-22.00    Finnish SAUNA  
Networking and research discussions

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## Day 3

8.00-9.00	Breakfast and packing
9.00-10.00	<b><i>Multifunctional adhesives for tooth-biomaterials interface, current challenges</i></b> Prof. Arzu Tezvergil-Mutluay, University of Turku
10.00-11.00	<b><i>Young investigator forum</i></b>  <b><i>1. Application of laser diode for photopolymerization of resin composites</i></b> Assistant Professor Yoshiki Ishida, Nippon Dental School  <b><i>2. Silver Daimine Fluoride: Effect on Adhesion to Dentin</i></b> Dr Merve Uctasli, University of Turku  <b><i>3. Effect of silicate-based cement on dentin matrix and dentin protease activity</i></b> Dr Ikram Salim, University of Turku
11.00	<b><i>Summary and conclusions</i></b>
11.15	Lunch
12.30	Departure from Seili to Nauvo, m/s Norrskär
13.00	Bus to Turku
14.30	Arriving in Turku