



Brief biographical note

Dr. Cristina Maria Bortun is Professor at "Victor Babes" University of Medicine and Pharmacy, Timisoara, Faculty of Dental Medicine, at Dental Technology Specialization. Her domain of interests is Removable Partial Dentures and Complete dentures technology and biomaterials for their achieving. Her competences are related to dental alloys, frameworks casting, processing, welding, especially CoCrMo, design and technology variants used in Removable Partial Dentures Technology. Dr. Bortun has also competences in interpreting static analysis using finite elements method and mechanical static and dynamic resistance evaluation, for Removable Partial Dentures.

Her studies are also focused on four out of five known technologies variants of complete dentures and resins quality appreciation for elongation, bending, and fatigue tests in order to estimate the lifetime- dentures warranty. The results are directed to diminution of error sources in the dentures technology, increasing of responsibility and simplification of some long lasting and energy wasting technologies, through new materials and technologies implementation.

All the tests are realized in a multidisciplinary activity, in collaboration with Politehnica University of Timisoara and Politehnica University of Bucharest.

Her's professional and scientific activity comprises: handbooks/textbooks (12); courses (8), papers published ISI reviews (10 in last 5 years), PubMed (6), Other International reviews (25 in last 5 years); papers published in the proceedings of international or national conferences (24 in last 5 years); participating in different national research projects; member of the scientific committee of different meetings (5); head of the organizing committee for different international conferences (3);

Name, salutation: Professor Dr. BORTUN CRISTINA MARIA

Current appointment:

Biomaterials Group,
Department of Dental Technology,
Faculty of Dentistry,
„Victor Babes” University of Medicine and Pharmacy, Timisoara, Romania



Educational Background:

- PhD in Medical Science, „Victor Babes” University of Medicine and Pharmacy, Faculty of Dentistry Timisoara, Romania, 1995.

Experience:

- 2008- at present PhD leading, decision 3292/26. 02. 2008
- 2004- at present **University Professor**, through a **contest**, at UMF „Victor Babeş” Timișoara and head Discipline- Dental Prostheses Technology, Dental Technology Specialization- additional act 142/10.10.2004 to work contract 1312 / 1996;
- 2004- at present **Senior in dental-alveolar surgery** – confirmation order MS. 1464/9.XI.2004;
- 2004- at present **Preventive Dentistry Competence**- confirmation MH, National Centre for Postgraduate Perfecting of Doctors, Pharmaceutical Chemists, other stuff with superior studies and medically assistants - series C no. 014272/2.VI.2004, registration no. 16002;



4th International Conference "Biomaterials, Tissue Engineering & Medical Devices"



- 1992 – 1999 Head **Department** through **competition**, - 1st Dentistry Polyclinic, dependent on No.1 Clinical District Hospital (work contract 2095/ 1992);
- 1991- at present **Senior in General Dentistry**, through a **contest** de (MH order 800/1991);
- 1990- 1991 **Specialist in General Dentistry** (disposition 1373/1990) by title changing from main to specialist doctor, Municipal Clinical Hospital Timișoara;
- 1988- 1991 **Main Doctor in General Dentistry** at 3rd Polyclinic of Municipal Clinical Hospital Timișoara (through transference in job's benefit);
- 1980- 1990 **Main Doctor in General Dentistry**, through a **contest** - MH order 603/1980, 1st Dentistry Service of 2nd Polyclinic Timisoara; 1984- 1988 **Main Doctor in General Dentistry** at 4th Polyclinic (transference in job's benefit to Municipal Clinical Hospital Timișoara- work contract 177/1984);

Research/clinical interest

- Diagnosis correlations between pathology of genetic diseases and oral cavity
- Testing and evaluation of prosthetic pieces quality or polymeric wax-up by finite elements method. (RPD, Complete. Dentures)
- Complete edentation – pick technologies: casting, light-curing, injection of complete dentures realized from different acrylic resins.
- Technologies optimization as a result of dental alloys testing and of casting and melting technology assimilation
- Laser welding in Dental Technology
- Oral rehabilitation of the patients with neurodegenerative affections and of elderly patients
- Nosocomial infections in dental technology laboratories

Present Areas of Research

The ongoing research work is characterized by the following keywords: Metallic biomaterials, Polymer/ composites, removable partial dentures, complete dentures technology, fracture mechanics for dental resins, and dental alloys.

Title of your BIOMMEDD 2010 lecture:

Fracture Toughness Evaluation for Eclipse UDMA Resins