CURRICULUM VITAE of

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EDUCATION

Ph.D. in Applied Mechanics and Biomechanics, Sept 1996, University of Montreal, Quebec, Canada

M.Sc. in Applied Mechanics, June 1991, University of Montreal, Quebec, Canada

B.Sc. in Mechanical Engineering, June 1988, Ecole Polytechnique d'Alger, Algiers, Algeria

EMPLOYMENT

- **November 1996 – Present:** Assistant Professor King Saud University, College of applied Medical Sciences, Biomedical Technology Department.
- **September 1991 - October 1996**: Lecturer in Department of Mechanical Engineering Ecole Polytechnique *of M*ontreal

PUBLICATIONS

Journals

- **M. Z. Bendjaballah**, A. Shirazi-Adl and D. J. Zukor. "Biomechanics of the human knee joint in compression: reconstruction, mesh generation and finite element analysis", The Knee, Vol. 2. No 2, pp. 69-79, 1995
- **M. Z. Bendjaballah,** A. Shirazi-Adl and D. J. Zukor. "Finite Element Analysis of Human Knee Joint in Varus-Valgus", Clinical Biomechanics, Vol. 12,.No 3, pp. 139-148, 1997
- **M. Z. Bendjaballah,** A. Shirazi-Adl and D. J. Zukor. "Biomechanical response of the passive human knee joint under anterior-posterior forces", Clinical Biomechanics, Vol. 13. No 8, pp. 634-640, 1998
- **M. Z. Bendjaballah,** A. Al-Arabi and M. T. El-Wakad M. T. "Smooth versus threaded-neck dental implant designs using finite element analysis. Egyptian Dental Journal Vol. 54, No. 2, 1-15, 2008
- **M. Z. Bendjaballah** and M. T. El-Wakad M. T. "Prediction of the optimum number of teeth supporting a long fixed partial denture: A finite element model study" Al-Azhar Journal of Dental Sciences 305–312, 2009

Conferences

- **M. Z. Bendjaballah,** A. Shirazi-Adl and D. J. Zukor. "Passive Knee Joint Mechanics in Varus-Valgus Rotations", 42th Annual Meeting, Orthopaedic Research Society, Vol. 21, Atlanta. Georgia, 1996.
- **M. Z. Bendjaballah,** A. Shirazi-Adl and D. J. Zukor. "Finite Element Model Study of Human Knee Joint", Proceedings of the 1996 Engineering Systems Design and Analysis Conference. PD-Vol.-77, Vol. 7, pp. 19-26, 1996.

- **M. Z. Bendjaballah** and M.T. El-Wakad. "Prediction of the optimum number of teeth supporting a long fixed partial denture: A finite element model study", 12th International Conference of Machine design and production, (UMTIK2006) Kusadasi, Turkey, 5-8 Sep 691-702, 2006.
- **M. Z. Bendjaballah,** A. Al-Arabi and M. T. El-Wakad M. T. "Smooth versus threaded-neck dental implant designs using finite element analysis. 12th Saudi International Dental Meeting – Integrating Science into Dental Practice, 12 – 14 April, 2008
- **M. Z. Bendjaballah.** "Finite element study of load transfer in a splinted fixed partial denture", Accepted for publication in the 4th European Congress for Medical and Biomedical Engineering 2008, Antwerp, Belgium, 23 – 27 November, 2008.