



**DENNIS D CHIMICH**  
**PRINCIPAL**  
**SENIOR BIOMECHANICAL ENGINEER**  
**INJURY BIOMECHANICS GROUP**

MSc, Civil Engineering (Biomechanics), 1993  
BSc, Mechanical Engineering, 1986  
Registered Professional Engineer

Dennis Chimich leads MEA's Injury Group in Vancouver. He is responsible for conducting biomechanical analyses of injury-producing incidents including those to assess loads applied to the body, injury mechanics and causation, and the relationship between the applied loads and the injury. Mr. Chimich also performs seat belt effectiveness analyses to determine the potential for injury with seat belt use.

**Areas of Specialization**

- Injury mechanics/causation
- Injury potential
- Seat belt effectiveness
- Sports injuries
- Slip and fall/recreational incidents

**Professional Affiliations**

MEA staff are members of various professional organizations. A current listing can be found on our website [www.meaforensic.com](http://www.meaforensic.com).

**Recent Publications**

In the past, Mr. Chimich's biomechanical research has focused primarily on knee ligament injury mechanisms and the study of healing ligament properties. More recently, Mr. Chimich's biomechanical research has focused on occupant response in rear-end and frontal impacts, and motorcycle helmet effectiveness.

DeMarco AL, Chimich DD, Gardiner JC, Nightingale RW, Siegmund GP (2006). Motorcycle helmet impact response: Comparison of helmet type and impact severity. Presented at the 34th International Workshop on Human Subjects in Biomechanics Research, Dearborn, MI, November 5, 2006.

Siegmund GP, Heinrichs BE, Chimich DD, Lawrence JM (2005). Variability in vehicle and dummy responses in rear-end collisions. Traffic Injury Prevention 6, pp. 267-277.

Siegmund GP, Chimich DD, Heinrichs BE, DeMarco AL, Brault JR (2005). Occupant responses to moderate frontal impacts vary with seat belt slack and anchor location. Traffic Injury Prevention, 6(1), pp. 38-43.

Siegmund GP, Brault JR, Chimich DD (2002) Do cervical muscles play a role in whiplash injury? Journal of Whiplash & Related Disorders 1, pp23-40.

**Contact:** [dennis.chimich@meaforensic.com](mailto:dennis.chimich@meaforensic.com)