



Bicycle Collision Investigation Presented by Mr. Roman Beck February 13, 2008

The First Quarter Training in Southern California was held at the Riverside Police Department on February 13, 2008. We had a total of 39 attendees. (We had RSVP's for 44 persons, and 3 people attended who did not RSVP). 34 of the attendees were regular members and 3 were guests who completed membership applications and paid their membership dues. Additionally, 2 expired members renewed their memberships. 10 of the attendees were ACTAR accredited.

During his classroom presentation, Mr. Roman Beck offered a rather informative lecture on Bicycle Collision Investigation, bicycle nomenclature, data, and a typical inspection routine. His lecture was accompanied with

handouts that included a diagram of bicycle major components, a bicycle inspection report, and his two PowerPoint presentations for Bicycle Collision Investigation and Reconstruction on both "Dynamics" and "Forensics".



Mr. Beck touched on "Maximum Coasting Speeds" and a number of equations relative to a bicycles speed capability through the Terminal Velocity, Curvilinear Velocity, and Velocity from gearing formulas. Additionally the class was introduced to the Lean Angle equation.

Topics discussed throughout the presentation included but were not limited to: Bicycle types and general differences, typical scene evidence, types of damage sustained during bicycle collisions, safety equipment inspections such as brake pad and rim wear, tire wear, and brake component nomenclature. Additionally, Mr. Beck discussed actual acceleration and braking tests. The lecture was reinforced with a "hands on" inspection of a bicycle damaged in an actual collision. A list of recommended tools one should be equipped with for a thorough bicycle inspection was also included.

The attendees were all given a CD containing all of the PowerPoint presentations as well as Bicycle Crash Test Data and Mountain Bicycle Acceleration and Braking Factors, which the attendees can readily refer to during their own particular investigations for research and data.

At the end of the day, Mr. Beck was given a Certificate of Appreciation for his fine and informative presentation. All of the attendees were given a Certificate of Attendance.

Paul Arnold