



The **ACES** Inc

The Accredited Collision Examination Specialists Inc

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David C. Wells
Collision Reconstructionist
ACTAR # 1912

Curriculum Vitae

EDUCATION

1990 Graduated from Shoreline Community College, A.A. degree, law enforcement

1976-1977 Attended Shoreline Community College

1975-1976 Attended Western Washington University

1975 Graduated from Bothell High School

PROFESSIONAL AFFILIATIONS

1994 TO 10-31-2013

Certified instructor for the Washington State Criminal Justice Training Center

2002 TO PRESENT

Member and Former president of WATAI (2011-2021) Washington Association of Technical Accident Investigators)

2007 TO PRESENT

Accredited member of the Accreditation Commission for Traffic Accident Reconstruction- **ACTAR# 1912**

2007 TO PRESENT

Member in good standing of NATARI (National Association of Traffic Accident Reconstructionists and Investigators)

CONFERENCES, SEMINARS and PRESENTATIONS ATTENDED

KING COUNTY MEDICAL EXAMINER'S OFFICE

1998 to 10-31-2013

I have attended approximately 50 traffic fatality review conferences. I have been a presenter at the conferences about twenty times

04-20-2011

Child death review conference-traffic fatalities

I presented on two cases

LECTURES AND PRESENTATIONS I HAVE GIVEN

WASHINGTON STATE CRIMINAL JUSTICE TRAINING CENTER (WACJTC)

1996 to 10-31-2013

I was a current co-instructor of the crime scene diagramming portion of the week long crime scene school course. I have instructed on more than forty occasions

KCSO CITIZENS ACADEMY

1998 to 10-31-2013

Approximately forty presentations about the MARR Unit to citizen groups from unincorporated King County and the contract cities served by the King County Sheriff's Office

PUBLIC SCHOOL PRESENTATIONS

2001 to 10-31-2013

Approximately twenty-two presentations to junior high and high school students about pedestrian and driver safety in King County

KING COUNTY FIRE DEPARTMENTS

1997 TO 10-31-2013

Eleven presentations to members of King County fire districts on evidence considerations at collision and crime scenes

NOVEMBER 3, 2011

Featured speaker on 3d diagramming technology at the violent crime investigators conference held at the WACJTC

NOVEMBER 19, 2012

CLE presentation to the Law Offices of Sweeney, Heit & Dietzler

JANUARY 10, 2013

Presentation to PSSI (Puget Sound Special Investigators) members on crash data retrieval technology (CDR)

October 14, 2016

Presentation to PSSI (Puget Sound Special Investigators) members on crash data retrieval technology (CDR)

July 28, 2016

Presentation to Allstate adjusters on vehicle inspections, damage analysis and crash data retrieval technology (CDR)

August 3, 2016

Presentation to Liberty Mutual adjusters on basic collision reconstruction, public disclosure requests from government entities and crash data retrieval technology (CDR)

February 23, 2017

Presentation to Travelers Insurance adjusters on crash data retrieval technology (CDR)

LAW ENFORCEMENT EMPLOYMENT

I have worked for the King County Sheriff's Office for over thirty-three years, which includes experience in the following areas:

1980-1988 Eight years as a patrol officer and master police officer; field training of new officers; advanced crime scene investigation and photography; traffic enforcement (with over 500 DUI arrests); automobile accident investigation.

1988-1990 Two years as a detective in the burglary / larceny unit, handling follow up investigations of burglaries, thefts, vandalism, telephone harassment, domestic violence crimes, assaults and sex crimes.

1990-10-31-2013 Twenty-three years as a detective in the Major Accident Response and Reconstruction Unit (MARR), handling the complete reconstruction of fatality and critical injury collisions; hit and run collisions and police pursuits, county and contract city vehicle collisions. Additionally, I have been processing major crimes incident scenes since 1991 (death investigations etc.) to assist other specialty units with surveying, measuring and diagramming crime scenes.

TRAINING CHRONOLOGY:

1980-1989

Completed multiple training sessions including, basic law enforcement academy, emergency medical technician, breathalyzer, emergency vehicle operation, firearms, legal aspects, crime scene school, defensive tactics, first aid, interview/interrogation, fingerprinting, crowd control, BAC Verifier Datamaster, defensive driving tactics, and officer survival.

1990

Attended multiple training sessions including, accident reconstruction conference, basic accident investigation, advanced accident investigation, BAC Verifier Datamaster, firearms training, polar measuring device, and Abney level training.

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1991

Attended training sessions including, technical accident investigation, heavy vehicle braking and acceleration testing, brake testing/standard versus ABS (anti-lock brakes).

1992

Attended training sessions that include, traffic accident reconstruction, damage energy analysis/crush deformation classification, and emergency vehicle operations.

1993

Attended training sessions including, investigation of pedestrian accidents and human factors, WACIC computer training, fall and vault testing, BAC Verifier Datamaster, Nikon total station laser survey training, and first aid refresher.

1994

Attended training including, vehicle dynamics, Vericom VC 2000 braking computer training, investigation of pedestrian and bicycle accidents, instructor development, and emergency vehicle operations.

Instructor of an advanced accident investigation course.

Qualified and testified as an expert witness in crime scene surveying and diagramming on an assault second degree case in King County Superior Court

I was certified as an instructor at the WACJTC

1995

Attended training on, inspection and investigation of commercial vehicle accidents and tire damage.

Qualified and testified as an expert witness in traffic collision reconstruction on a vehicular assault in King County Superior Court

1996

Attended training on, bus accident investigation, emergency control of natural gas, BAC Verifier Datamaster refresher, and police traffic collision reporting.

1997

Attended training sessions including, advanced accident reconstruction, access for windows fundamentals, introduction to the pc with windows 95, emergency vehicle operations, HAZ-mat training; drug lab and associated chemical recognition.

Qualified and testified as an expert witness in traffic collision reconstruction in King County District Court

Qualified and testified as an expert witness in traffic collision reconstruction in King County Superior Court

Qualified and testified as an expert witness in traffic collision reconstruction in King County Superior Court

1998

Attended training on, EDCRASH- accident reconstruction with microcomputers, PowerPoint fundamentals, access/WACIC training, and the Reid method of criminal interviews and interrogation.

1999

Attended training on, EDCRASH-simulations- traffic collision simulations with microcomputers, and hazardous material/high voltage electricity.

Qualified and testified as an expert witness on crime scene measuring and diagramming in Pierce County Superior Court

2000

Received BAC basic certification

Qualified and testified as an expert witness in traffic collision reconstruction in a civil trial King County Superior Court

Qualified and testified as an expert in traffic collision reconstruction in King County District Court

2001

Attended occupant kinematics training.

2002

Attended crash data retrieval system operator's certification course CDR, basic radar operator course, and basic Lidar operator course.

Qualified and testified as an expert witness in traffic collision in King County District Court

2003

Attended bus testing/maintenance training and access/WACIC training.

Qualified and testified as an expert witness in traffic collision reconstruction in King County Superior Court

Qualified and testified as an expert witness in crime scene surveying and diagramming in Pierce County Superior Court

2004

Attended training sessions on, King County Sheriff's Office In-service training, damage energy analysis, excel for the collision reconstructionist, and math and formula review.

Qualified and testified as an expert witness in traffic collision reconstruction in King County District Court

2005

Testified as an expert witness in traffic collision reconstruction for the city of Shoreline on a pedestrian fatal collision law suit (deposition)

Washington state Court of Appeals took judicial notice that David C. Wells is a certified expert in traffic collision reconstruction (**State v. Sipin 743 125 wn. app. 733**)

Training on survey software (pocket zone); 3d diagramming & simulation software (CAD ZONE)

2006

Attended various training sessions including, BAC refresher, staged collisions/reconstruction, Vericom VC 3000 training seminar, and traffic death pathology conference, occupant kinematics in vehicular collisions, crush energy analysis course, and emergency vehicle operations refresher.

Testified as an expert witness in traffic collision reconstruction in King County Superior Court

2007

Attended various training sessions including, Nikon digital camera training, close range photogrammetry training, Vista FX software training; 3-d diagramming; 2-d and 3-d animation and simulation of vehicle collisions, critical speed yaw testing, ABS and non-ABS skid tests-cars and motorcycles, applied physics, collision reconstruction update with Excel applications, first aid/CPR refresher, crash data retrieval-technician certification, crash data retrieval-analyst certification, and yaw mark testing and drag sleds versus electronic devices to obtain frictional values.

Testified as an expert witness in traffic collision reconstruction on a civil case (deposition)

Testified as an expert in traffic collision reconstruction for a civil case (deposition)

Testified as an expert witness in crime scene surveying and diagramming in Pierce County Superior Court

Received notification that I had successfully passed the Accreditation Commission for Traffic Accident Reconstruction (ACTAR) examination-ACTAR #1912

2008

Attended various training sessions including, access certification level 1, Railroad grade crossing collision investigation, drugs that impair driving, officer involved collision prevention and investigation, advanced motorcycle crash reconstruction, mechanical forensics engineering services, heavy truck reconstruction, and human factors for traffic crash reconstruction.

2009

Attended training sessions on, light rail worker right of way safety, light rail vehicle familiarization training, and staged crashes with reconstructions.

2010

Attended training sessions on expert testimony, advanced reconstruction with Excel applications, traffic signal intersection collision reconstruction, and light rail right of way re-certification.

2011

ARAS 360 animation software training, skid testing comparison of varying tire makes and models, pole/tree impact collision reconstruction, lamp examinations/low speed impact inspection procedures, automotive glass coding and identification, crash data retrieval technician level 1, crash data retrieval technician level 2, crash data retrieval data analyst, human factors, and vehicle inspection procedures.

I was a featured speaker at the violent crime investigators conference on 3d diagramming technology

2012

Attended various training sessions on, advanced collision reconstruction with crash data retrieval applications, hybrid vehicle technology and safety, Vericom VC3000/4000 training, BAC refresher

certification, traffic collision analysis using the Monte Carlo method, and damage energy analysis refresher.

I was re-accredited by ACTAR, The Accreditation Commission for Traffic Accident Reconstruction, new expiration date 10-07-2017; ACTAR # 1912

Qualified and testified as an expert in traffic collision reconstruction in King County Superior Court

2013

Attended training sessions on car / pedestrian collision reconstruction, downloading engine control modules on heavy truck engines, IPTM traffic crash association leadership summit, live crash testing-two fully instrumented staged collisions with analysis and discussion, determining frictional values in collision reconstruction, experimental concepts in low speed impacts, advanced momentum concepts, and event data recorder update.

Testified as an expert in traffic collision reconstruction in King County Superior Court

Testified as an expert in traffic collision reconstruction in King County Superior Court

Testified as an expert in traffic collision reconstruction in Pierce County Superior Court

Testified as an expert in collision reconstruction in an arbitration, Bellevue WA, King County

CDR-Crash Data Retrieval, analyst update training

Testified as an expert in traffic collision reconstruction in King County District Court

2014

Testified as an expert in traffic collision reconstruction in an arbitration, Seattle WA King County

Testified as an expert in traffic collision reconstruction in King County Superior Court (RJC)

Testified as an expert in traffic collision reconstruction in King County Superior Court (KCCH)

Testified as an expert in traffic collision reconstruction in Pierce County Superior Court (PCCH)

Testified (conference call) as an expert in traffic collision reconstruction in an arbitration, Tacoma WA, Pierce County

Low Speed Collision Reconstruction Conference with Live Low speed crash Testing
Presentation on Bio-Mechanics of Low Speed Collisions / Evaluate Live Low Speed Crashes

WATAI Fall Conference which included the following: High speed live test crashing of vehicle into vehicle; vehicle pedestrian, vehicle into moped, vehicle into shopping cart; Crash Data Retrieval (CDR) System Operators / Analysis and Applications Update Course

CLE Presentation to staff counsel at the Law Offices of Sweeney, Heit & Dietzler on litigated bicycle cases

2015

Testified as an expert in crime scene surveying and diagramming in a Murder First Degree criminal trial in King County Superior Court

Testified (conference call) as an expert in traffic collision reconstruction in an Arbitration, held in Lynnwood WA, Snohomish County

Testified at a Frye hearing in front of King County Superior Court Judge Jean A. Rietschel and was accepted as an expert in collision reconstruction

WATAI Spring Conference Crash Reconstruction at Traffic Signal Intersections

Instructor Daren Marceau

Burien WA

10 hours

Testified in Pierce County District Court in a jury trial (civil) as an expert in traffic collision reconstruction

Testified in Franklin County Superior Court in a jury trial (civil) as an expert in traffic collision reconstruction

Testified in King County Superior Court in a jury trial (civil) as an expert in traffic collision reconstruction

WATAI Fall Conference – Visibility, Optics, Lighting and Low light photography

Clearly Visible Presentations LLC

Burien WA

24 hours

2016

Testified in King County Superior Court in a jury trial (civil) as an expert in traffic collision reconstruction (Judge Erlick) 03-09/10-2016

Testified in Whatcom County Superior Court (via Skype) in a jury trial on a Vehicular Homicide/Vehicular Assault case (Judge Uhrig) 05-02-2016

Testified in Snohomish County Superior Court as an expert in collision reconstruction in a jury trial on a civil case (Judge Weiss) 06-15-2016

Attended and was a committee member of WREX 2016 (World Reconstruction Exposition) which was the largest crash conference ever held. Live crash testing of cars, SUV's, heavy trucks, motorcycles; live hands on practical field training on more than 30 topics

WREX 2016

Orlando Florida

40 hours

WATAI Spring Conference

Unique Aspects of Collision Reconstruction

12 hours

Wade Bartlett, P.E.

Training presentation to PSSI (Puget Sound Special Investigators) on Crash Data Retrieval (Event Data Recording) and vehicle damage inspections

Training Presentation to Allstate Insurance on vehicle damage inspections and use of Crash Data Retrieval

Training Presentation to Liberty Mutual on Collision Reconstruction and Crash Data Retrieval

Testified in Lewis County Superior Court as an expert in collision reconstruction in a jury trial on a civil case (Judge Lawler) 08-04-2016

Testified in U.S. Federal District Court -Spokane WA, as an expert in collision reconstruction in a jury trial (Judge Quackenbush) 08-17-2016

WATAI Fall Conference

Simulation vs Animation – HVE and PC Crash and WREX 2016 Data Review

18 hours

Eric Hunter

John Hunter

WATAI Board Members

Testified in King County Superior Court as an expert in collision reconstruction in a civil case (Judge Ramseyer).

Testified in King County Superior Court as an expert in collision reconstruction in a civil case (Judge McCullough)

Testified in Whatcom County Superior Court as an expert in collision reconstruction in a criminal case (State v Smith –V Homicide) (Judge Snyder)

Testified in King County District Court as an expert in collision reconstruction in a civil case (Judge Harper)

2017

WATAI Spring Conference

12 hours

Expert testimony

King County Superior Court Judge Matt Williams; Sr Deputy Prosecutor Amy Freedheim

Local jurisdiction case studies

Warrantless legal blood draws

Car – Pedestrian Collision Reconstruction

Accident Analysis and Reconstruction LLC

C. Gregory Russell and Vlad Bortchevsky

Des Moines Washington

40 hours

WATAI Fall Conference

Passenger and light truck tire seminar

TJ Tennant – Sr Engineer Bridgestone Tires - Retired
6 hours
Des Moines WA

Traffic Collision Reconstruction Review
Use of Drones and Pix 4D software
C. Gregory Russell
Accident Analysis and Reconstruction LLC
6 hours - Des Moines WA

Testified in Spokane County Superior Court
Judge Timothy B. Fennessey
Vehicular Homicide

2018

Testified in Multnomah County Superior Court (Oregon)
Judge Christopher A. Ramras
LSVI 2 car collision (Civil)

Testified in Linn County Superior Court (Oregon)
Judge David Delsman
2 vehicle crash (semi-tractor / trailer v Log truck) collision (Civil)

Testified in Snohomish County District Court
Judge Jeffrey Goodwin
3 vehicle crash (civil)

WATAI Spring Conference
Forensic Video Analysis
Andrew Fredericks – Forensic Video Solutions
8 hours

Testified in Island County Superior Court
Judge Vickie I. Churchill
Vehicular Homicide

WATAI Fall Conference
Live high-speed test crashes
Crash data review and validation
Momentum review
Crash Data Specialists LLC
22 hours

Testified in Clallam County Superior Court
Judge Brian Coughenour
2 vehicle crash – civil

Testified in Snohomish County Superior Court
Judge Bruce Weiss
2 vehicle crash (civil)

2019

Testified in Pierce County Superior Court
Judge Shelly K. Speir
2 vehicle crash (civil)

Testified in King County Superior Court
Judge John McHale
2 vehicle crash (civil)
WATAI Spring Conference

Speed calculations using vector diagrams, law of sines and cosines and momentum based on live test crashes
Detective Aaron Parker Seattle PD
6 hours

Using Pix4d in Collision Investigations
C. Gregory Russell - Accident Analysis and Reconstruction
Renton WA
32 hours

Watai Fall Conference
Jeffrey Pike – Occupant Kinematics
Brad Muir CDR 900 update for Toyota vehicles
Roger Smedsrud Vehicle Mechanical Inspections
Burien WA
12 hours

Testified in Snohomish County South District Court
Judge Jeffrey Goodwin
2 vehicle crash (civil)

2020

Testified in King County Superior Court
Judge John R. Ruhl
Motorcycle v Vehicle/Ped (civil)

2021

Testified in King County Superior Court
Judge Barbara J. Rothstein
2 vehicle crash (civil)

Testified in Clallam County Superior Court
Criminal case – Vehicular Assault

WATAI Spring Conference
Zoom Virtual Platform
16 hours

Go pro usage in Collision Reconstruction – Greg Russell
Using Freightliner New Cascadia ECM Data in Accident Reconstruction – Greg Wilcoxson – Wes Grimes
– Dave Plant
Overview of 3D Forensic Methodologies – Eugene Liscio
Autonomous Vehicles / ADAS (Advanced Driving Systems) – Alan Moore
Utilizing Toyota Techstream Software to Obtain Vehicle Control History in late Model Toyota Vehicles –
Brad Muir
EDR Download Updates – Bosch, Hyundai, Kia, Tesla and More – Kent Boots

May 13, 2021
Ended term as President of WATAI

WATAI Fall Conference
Zoom Virtual Platform
24 hours

What is Human Factors and What Equipment / Tools Should I Have
Bill Messerschmidt -Messerschmidt Safety Consultants

Fatigue Mobile Devices and Intoxication from a Human Factors Point of View
Bill Messerschmidt -Messerschmidt Safety Consultants

A Systems Based Approach to Traditional Accident Recon
Bill Messerschmidt -Messerschmidt Safety Consultants

How far do headlights illuminate
James Sobek – Clearly Visible Presentations

Photometry for Forensic Investigators – The Science of Measuring Light
James Sobek – Clearly Visible Presentations

Human Factors of Driving
John Lloyd Ph.D CPE

Distracted Driving – Causes and Consequences
John Lloyd Ph.D CPE

Looming – Stopped or Slow Moving Vehicles on the Highway
John Lloyd Ph.D CPE

Object Detection and Retro-Reflective Materials / Using Photos and Video in Human Factors Analysis
Jeff Suway – JS Forensic Consulting

Perception Response Time and the 1.5 Second Myth / Nighttime Recognition

Swaroop Dinakar Ph.D Crash Safety Research Center

Human Factors Considerations in Motorcycle Incidents
Lou Peck – Axiom Forensic / Lightpoint Scientific

Testified in King County Superior Court (Zoom platform)
Judge Samuel Chung
Car v Ped crash (civil)

GENERAL

During my career in law enforcement, I have investigated and or reconstructed over 950 accidents as a field investigator and accident reconstructionist. I have attended about 1500 hours of formal training on traffic collision investigation and related fields. I have spent an additional 250 plus hours on skid testing, acceleration testing and lamp examinations (including microscopic), as part of an on-going training process within the MARR unit. I have surveyed and or measured over 1000 accident/crime scenes. I have been electronically mapping collision and crime scenes since 1993, which includes several hundred vehicle damage profiles. I have testified at oral depositions and arbitrations in King County District Courts as an expert in collision reconstruction dozens of times that are not specifically dated and or mentioned. I have been consulting privately on civil and criminal cases since April 2006. I have reconstructed and or analyzed an additional 3000 or more cases in my private consulting practice.

Revised 12-14-2021