

# Charles S. Greear

7425 W. Terra Cougar Ln., Coeur d'Alene, Idaho 83814

208-661-5639

[cgconsultingcda@gmail.com](mailto:cgconsultingcda@gmail.com)

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## SUMMARY OF QUALIFICATIONS AS A COLLISION RECONSTRUCTIONIST

Charles Sperry Greear is a twenty-seven-year police officer and a fifteen-year veteran of the Idaho State Police. He recently retired as a Senior Detective assigned to the Idaho State Police Investigations Division in Coeur d'Alene where he was responsible for investigative activities in the five northern counties; cases involving drugs and crimes against persons. Prior to his investigations assignment, Charles Greear worked as a uniformed patrol officer based in Coeur d'Alene.

Charles Greear is an ACTAR Accredited Collision Reconstructionist, a Breath Testing Specialist, a Drug Recognition Expert, a Field Training Officer and a Standardized Field Sobriety Test instructor. He is also certified by Idaho P.O.S.T. as an instructor for Crash Investigation, Collision Reconstruction and DUI Investigation.

Charles Greear attended the University of Nevada, Reno, where he received a Bachelor of Sciences degree in Chemistry. He then attended the University of California, Santa Cruz, where he received a Master of Sciences degree in Inorganic Chemistry. After graduating, he worked as a Metallurgical Engineer, specializing in aerospace materials applications; working for Precision Rolled Products Inc. and for Viking Metallurgical Inc., both in the Reno, Nevada area. He has taught chemistry at the University of Nevada, Reno, at the University of California, Santa Cruz and at Truckee Meadows Community College, Reno, NV.

In 1987, he joined the Washoe County Sheriff's Office, in Reno, Nevada. He served there until January of 1996, at which time he moved to Idaho and joined the Clearwater County Sheriff's Department in Orofino. In June of 1999, he started with the Idaho State Police. Charles Greear worked uniform patrol for the Idaho State Police until October 2011, at which time he was promoted to Detective. He retired on 11/30/2014 as a Senior Detective.

Charles Greear has been an active Collision Reconstructionist since 1995 and has personally investigated over 1500 crashes during his career, ranging from minor property damage crashes to multiple fatality crashes. He has been certified as an expert witness in Idaho State Court and in the United States District Court (4<sup>th</sup> District).

## FORMAL EDUCATION

### 1980-1986

Graduate Courses (Metallurgical Engineering) at University of Nevada Reno

- Elements of Material Sciences
- Advanced Methods of Physical Metallurgy
- Corrosion of Metals
- Materials Failure Analysis
- Advanced Corrosion Principles

### 1977-1980

Master of Science (Chemistry) from University of California, Santa Cruz

Applicable Courses:

- Introduction to Quantum Theory
- Mathematical Methods of Physics
- Chemical Kinetics
- Statistical Mechanics
- Reaction Mechanisms
- Organometallic Chemistry
- Thesis Research (*Oxidative Addition Reactions of Highly Fluorinated Ligands with Transition Metals*)

### 1971-1977

Bachelor of Science (Chemistry) from University of Nevada, Reno

Applicable Courses:

- Life Science Chemistry (I & II)
- Introduction to Community Health
- Organic Chemistry
- General Physics
- Calculus
- Differential Equations
- Linear and Vector Algebra
- Analytical Chemistry
- Instrumental Analysis
- Physical Chemistry
- Advanced Inorganic Chemistry
- Advanced Physical Chemistry

## **TRAINING SPECIFIC TO COLLISION INVESTIGATION**

Basic Accident Investigation (Washoe County Sheriff's Office)  
Technical Accident Investigation (Nevada P.O.S.T.)  
Traffic Accident Reconstruction-I (Northwestern University)  
Basic Accident Investigation Refresher (Idaho State Police)  
Advanced Crash Investigation (Idaho State Police)  
Collision Reconstructionist (Idaho State Police)  
Crash Investigation (The Backup)  
Collision Reconstructionist Refresher (Idaho State Police)  
IAARS Conference, 2005 (Idaho State Police)  
Technical Collision Investigation (Washington C.J.T.C)  
Collision Reconstruction Refresher (Idaho State Police)  
Momentum and Energy Analysis (Washington C.J.T.C)  
Crash Zone Training (ISP / George Maglaras)  
Yaw Mark Testing & Drag Sled Evaluation (WATAI 2007, Bartlett)  
Grade Crossing Collision Investigation (UP & BNSF Railroad)  
Advanced Motorcycle Crash Reconstruction (Wade Bartlett)  
MVA Reconstruction: Theory and Practice (IAARS 2008)  
Energy Methods and Damage Analysis in Traffic Crash Reconstruction (IPTM)  
LTI Laser / Crash Zone Refresher (Idaho State Police)  
WATAI Crash Testing (Rusty Haight – WATAI 2009)  
Momentum, Vectors,  $\Delta v$  & PDOF (Greg Russell – WATAI 2009)  
Occupant Kinematics (Rob Kaufman – WATAI 2009)  
Advanced Reconstruction w/ Excel Applications (Greg Russell)  
ARC-CSI Conference 2011 – Assist with crash test evaluation using iWitness Photogrammetry  
Applied Physics for the Traffic Crash Investigator (IPTM)  
Optics, Lighting, Visibility & Digital Photography (WATAI 2015)

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## **CAREER HISTORY AND ACCOMPLISHMENTS**

### **IDAHO STATE POLICE (1999- 2014)**

#### **Assignment**

Patrol Division, District 1 (from June 1999 until October 2011)  
Investigations Division, District 1 (from October 2011 until December 2014)

#### **Responsibilities**

Uniform Patrol (from June 1999 until October 2011)  
Breath Testing Specialist  
Crash Reconstructionist (3/01 – 7/09)  
Drug Recognition Expert

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SFST Instructor  
Field Training Officer

Criminal Investigations (from October 2011 until December 2014)

**Commendations**

Letter of commendation from Idaho State Police for excellence in Collision Reconstruction (2009)

**CLEARWATER COUNTY SHERIFF'S OFFICE, OROFINO, IDAHO (1996-1999)**

**Assignment**

Corporal / Investigator (01/22/96 - 05/08/97)  
Senior Deputy / Uniform Patrol (05/09/97 – 06/27/99)

**Responsibilities**

Criminal Investigations  
Crash Reconstructionist  
Uniform Patrol  
Canine Handler  
Member of the Emergency Response Team (ERT)

**WASHOE COUNTY SHERIFF'S OFFICE, RENO, NEVADA (1987-1996)**

**Assignment:**

Detention Deputy (07/87 - 07/89)  
Department Armorer (07/89 - 07/90)  
Reno Patrol Division (07/90 - 03/91)  
Resident Deputy, Gerlach, Nevada (03/91 - 01/21/96)

**Responsibilities:**

Uniform Patrol  
Canine Handler  
Member of the Fatal Accident Investigation Team (Crash Reconstructionist)  
Member of the Hostage Negotiations Team  
Drug Recognition Expert  
CSI Deputy  
Rangemaster/Armorer  
HAZMAT Instructor

## **VIKING METALLURGICAL CORPORATION, VERDI, NEVADA (1986-1987)**

### **Assignment:**

Quality Control Manager

### **Responsibilities:**

Oversee Statistical Quality Control Program  
Working With Titanium and High-Temperature Alloys for Aerospace Applications  
Materials Integrity  
Laboratory Manager  
Physical Metallurgy  
Materials Testing

## **PRECISION ROLLED PRODUCTS INC., RENO, NEVADA (1980-1986)**

### **Assignment**

Quality Assurance Manager

### **Responsibilities**

Working With Titanium and High-Temperature Alloys for Aerospace Applications  
Materials Integrity  
Physical Metallurgy  
Materials Testing  
Oversee Production Quality and Ingot Forging



### **Memberships & Affiliations**

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ACTAR Accreditation Number: 1943

Washington Association of Technical Accident Investigators (WATAI)

Society of Automotive Engineers (SAE)

International Network of Collision Reconstructionists (INCR)

National Association of Professional Accident Reconstructionists, Inc. (NAPARS)