

California Association of Accident Reconstruction Specialists

P.O. Box 53536, San Jose, CA 95153 ★ E-MAIL: CA2RS@CA2RS.COM ★ WWW.CA2RS.COM

SKIDEMARKS

NO. 38

SEPTEMBER 2007

quarterly Training Review

VEHICLE DAMAGE DOCUMENTATION & CRUSH MEASUREMENT PROTOCOL

QUARTERLY TRAINING REVIEW BY JOEL SALINAS, CA²RS VICE CHAIR

Third quarter Northern California training was held in July, in Windsor, California, which is just north of Santa Rosa. Kent Boots covered the Vehicle Damage Documentation while Chris Kauderer covered the Crush Measurement Protocol.

From the onset it was made clear what we were going to learn and what we were not going to learn. Those expecting a class on Crush learned that this topic cannot be presented in an eight hour session. You'll need to take a 40 hour training class for that. The key points of the topic presented included:

- What's important to document with respect to vehicle damage
- How to measure and draw a damage profile by hand and electronically

The PowerPoint presentation was filled with numerous examples of damaged vehicles that prompted discussions and advise on how to accurately document the damage.

One method still commonly used today, especially by those not trained in the use of the total station, is to hand measure the vehicle by establishing a box around it. Kent covered how to set up the box, ensure that it's square, and how to take the measurements. We got another glimpse of the prototype jig that Kent designed to help align the tape measurers. Kent, any chance this will go into production soon? This jig would be a significant time saver in getting the box set up around the vehicle. All of this can be done by hand and the damage profile can be drawn on graph paper.

If you use a total station to document the damage profile, you have the option of shooting multiple lines and then labeling or coloring them differently to show the various heights and depths of crush damage.



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California Association of Accident Reconstruction
Specialists
Presents our 2007 Conference

CA²RS Toolbox
A Reconstruction Grab Bag

October 18th - 20th, 2007

This year our conference will focus on a variety of information needed to reconstruct collisions. It will include sessions on issues related to commercial vehicle reconstruction, nighttime visibility, understanding low speed collisions, pedestrian collision investigation, errors and omissions in determining post collision trajectories, and automobile insurance fraud schemes.

Speakers this year include; Jerry Eubanks, Automobile Collisions Cause Analysis; Tim Reust, Accident Science, Inc.; Bruno Schmidt, Schmidt Consulting Services LLC; Chief Tony Torres, California Department of Insurance and Representatives from MEA Forensic.

In addition to the wonderful conference there will be vendors and a vendor reception on Thursday evening.



ACTAR Class and Test:

An ACTAR Prep class is being offered at the hotel on Tuesday, October 16, 2007 and the ACTAR Test will be held on Wednesday, October 17, 2007.

Anyone wishing to take to ACTAR Test **must** contact Al Baxter at www.actar.org or (800) 809-3818 to register.

Conference registration includes: All conference materials, all sessions, CD of conference materials, continental breakfast, lunch and afternoon snack on Thursday and Friday, continental breakfast on Saturday, vendor reception on Thursday night and discounted hotel room rates at the Sheraton Anaheim Hotel for 3 night prior and post conference.

Conference Registration Information: On-line registration is necessary even if you are paying by check or purchase order. If for some reason you can't complete your registration on-line, please call Karen Haverkamp at (951)353-7980 for assistance.

Location:

Sheraton Anaheim Hotel
900 South Disneyland Drive
Anaheim, California 92802

Hotel reservations may be made on-line at www.starwoodmeeting.com/book/ca2rs or you may call 866-716-8130

You **MUST** contact the hotel directly to make reservations and mention CA²RS to secure the discounted room rate.

\$99.00 (15.25% tax) per night single or double occupancy
(Children 18 and under stay free in parents room)

Rooms at these rates will be available on a first come first serve basis until September 13, 2007. Please call early to secure your rate.

Complimentary parking will be provided at the hotel.

See the conference brochure on pages 5 & 6.

From The Bookshelf

Another Book Review from the desk of
Joseph E. Badger, Bloomington, Indiana

Linear and Rotational Motion Analysis in Traffic Crash Reconstruction

by Orion P. Keifer, Richard V. Conte and Bradley C. Reckamp

Crash reconstructionists are commonly faced with vehicle collisions with post-impact rotation, yet few are knowledgeable about the pitfalls and analysis opportunities this rotation presents. Generally, the rotation is simply ignored and the drag coefficient is adjusted by some amount to account for the rotation. While this approach is adequate for some crashes, it is totally inappropriate for others.

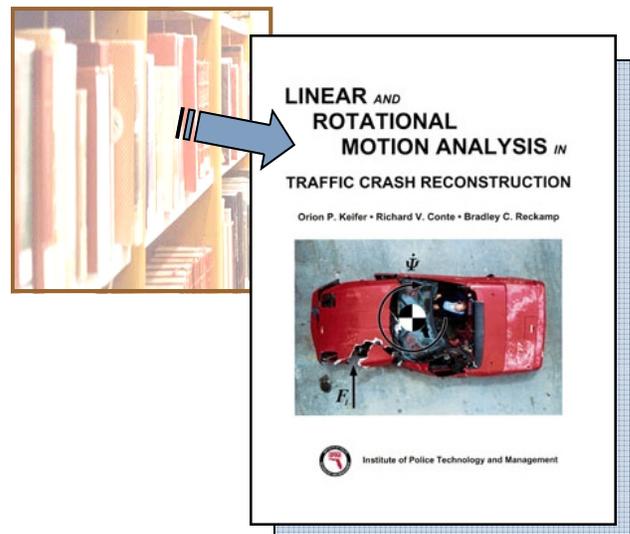
*IPTM's latest book, *Linear and Rotational Motion Analysis in Traffic Crash Reconstruction*, examines rotation and its implications in reconstruction. Written by 3 Professional Engineers, it is a comprehensive text full of diagrams and formulas designed to provide you with the background to properly evaluate and analyze crashes with post-impact rotation.*

The authors begin with a summary of the physical principles of mechanics required to perform an accurate reconstruction. From there, they discuss topics such as the effects of rotation on linear and rotational drag factors, limitations of analysis methods in crashes with post-impact rotation, post-impact tire forces on the rotating vehicle, and pre-impact speed analysis based on post-impact rotational displacement. They also discuss situations where linear analyses are inappropriate and give you false answers.

One of the newest books to roll off the presses at the University of North Florida's Institute of Police Technology and Management (IPTM) is one titled *Linear and Rotational Motion Analysis in Traffic Crash Reconstruction*.

Let me warn you up front, this 232-page text is not for the faint of fractions, that is, the mathematically challenged.

No, it doesn't get into the quota rule, quadratic average, or quantum-limit cyclotron resonance line width due to an electron-phonon interaction. But the three authors, Orion P. Keifer, Richard V. Conte and Bradley C. Reckamp, all have Mechanical Engineering degrees. And they all eat formulae for lunch.



If you enjoy algebra and solving equations, you'll like pouring over *Linear and Rotational Motion Analysis in Traffic Crash Reconstruction*.

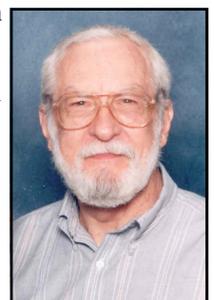
Chapter titles include: The Physics of Traffic Crash Reconstruction, Inter-relationship of Linear and Rotational Momentum Exchange, General Rotational Momentum Equations, Rotational Friction, Rotational and Linear Motion Interaction.

The book covers some staged crashes and case studies, and wraps up with an Appendix that discusses – in depth and exhaustive detail – Tire Friction Force Analysis, Tire Linear Force and Moment Analysis, Vehicle Linear and Rotational Deceleration Equations.

Speaking of equations, Chapter 1 offers five equations to solve for yaw moment of inertia. The authors cite equations attributed to Rudy Limpert, Expert AutoStats, EDCRASH, and Neptune Engineering. They include also a yaw moment of inertia physics equation if you ever find yourself faced with a rectangular parallelepiped. And if that term snows you, it's "a polyhedron with six faces, each a parallelogram and each being parallel to the opposite face." Or, as the authors explain, it's engineering jargon for a box.

The book *Linear and Rotational Motion Analysis in Traffic Crash Reconstruction* is available only from IPTM. It's \$35.95 plus shipping. Contact: Institute of Police Technology and Management, University of North Florida, 12000 Alumni Drive, Jacksonville, Florida 32224-2678. Phone (904) 620-4786, fax (904) 620-2453, E-Mail: orders@iptm.org. Online: www.iptm.org.

(About the reviewer: Joseph E. Badger is an internationally known accident reconstructionist who has had over 100 articles published in such periodicals as Law and Order magazine, Accident Reconstruction Journal, Accident Investigation Quarterly, and others. Having retired after 20 years with the Indiana State Police, Mr. Badger resides in Bloomington, Indiana.)



The Board BEAT

Wow this year has certainly gone fast. It seems like just last month we were getting ready for the conference in Lake Tahoe. It's hard to believe that was a year ago. Plans are coming together quite nicely for this year's conference and I'm sure that it will be informative and educational. Don't forget that registration must be completed online at www.regonline.com/142764. The early bird registration is over and the current price is \$300 for members until September 21st. Hotel reservations at the Sheraton Anaheim Hotel can be made by calling 866-716-8130 or online at www.starwoodmeeting.com/book/ca2rs. Making your reservation online assured that you will receive the discounted room rate. This rate was only available on a first come-first serve basis until September 13th. If you telephone, you had to contact the hotel directly to make reservations and mention CA2RS to secure the discounted room rate.

Due to some scheduling conflicts we had to make a speaker change for our 3rd quarter training. We had already advertised the topic, "Vehicle Damage Documentation and Crush Measurement Protocol". This was a popular request from last year's conference evaluations and we still wanted to present the topic. Then the question was, who we were going to get to present the training. Chris Kauderer and I volunteered ourselves for the Northern California training session and Paul Wade volunteered for the Southern California training session. I heard many positive comments in Santa Rosa and I understand the training in Orange was equally well received. For more details about the training session please see the training review.

I'm pleased to announce that registration is now available for our 5th Anniversary Cruise Training. This is a great opportunity to network, learn, relax, or just spend time with family and friends! Our guest speaker is Dr. Bruno Schmidt presenting "Applied Physics for Accident Reconstruction". This extra training will take a look at different, alternate approaches that other reconstructionists might use in analyzing a collision, and how to critically assess those approaches to determine if they are valid. It will give those who attend a better understanding of the physics of accident reconstruction, and how to communicate that understanding to others.

The Carnival Elation cruise ship will set sail on Thursday

April 24th, 2008 from San Diego. We will have the first two hours of our training on Thursday before we set sail and the remainder of the training on Friday, our first fun day at sea.

We will spend all day Saturday in Cabo San Lucas, Sunday is another fun day at sea, and we will return to San Diego Monday morning. The registration form and flyer are posted on the CAARS Web site and the flyer is part of this newsletter. A deposit of \$150 is due by November 30, 2007 with final payment due by February 10, 2008. If your deposit is received by October 15, 2007 you will receive an extra surprise on board.

By now everyone should have received their membership renewal notices. Sometimes renewal notices can "slip through the cracks," especially if someone at your business or agency handles the renewals. If someone other than you is sending in the renewal notice and payment, please follow up with them to ensure it gets done.

Don't forget that we will hold our annual election for the CAARS board of directors during our business meeting at the conference. We have four positions up for re-election; the vice-chair and three directors at large. Those positions are currently being held by Joel Salinas (vice-chair), Karen Haverkamp, Chris Kauderer, and Paul Wade.

The nomination period ended on September 1st. The following members have been nominated as directors at large; Jahna Beard – LAPD, Dave Heinbaugh – San Ramon PD, Monica Franksen – Clovis PD, Joel Salinas – Vallejo PD, Sean Shimada – Biomechanical Consultants of CA, Russell Townsley – LASO, Paul Wade – OCSD. Chris Kauderer has been nominated for the position of Vice-Chair. Take a look at their candidate statements on page 10.

If you are unable to attend the conference and would like an absentee ballot please request one via e-mail at chairperson@ca2rs.com.

As always, if there is ever anything that I, or any of the other board members, can do to improve your organization, please don't hesitate to let us know.

That's all for now,

Kent



Kent E. Boots Chair
 Joel Salinas Vice-Chair
 Paul Arnold Director
 Karen Haverkamp Director, Treas.
 Chris Kauderer Director
 Paul Wade Director
 Dave Willat Director
 Rudy Degger ACTAR Liaison
 Kevin Cassidy Membership Chair

**THREE GREAT DAYS
OF TRAINING, VENDORS,
AND INFORMATION!**

**ACTAR Test
Preparation Class on Location
Prior to Conference**

- See www.regonline.com/142764 for details, cost and registration

**ACTAR Examination
on Location Prior to Conference**

- See www.actar.org for examination dates, details, cost and registration.

Receive ACTAR CEUs

Conference Discounts

- CA²RS member discounts for the ACTAR test preparation class and ACTAR exam fee
- Preferred hotel rates at Sheraton Anaheim Hotel

**Exhibitor Displays
and Reception**

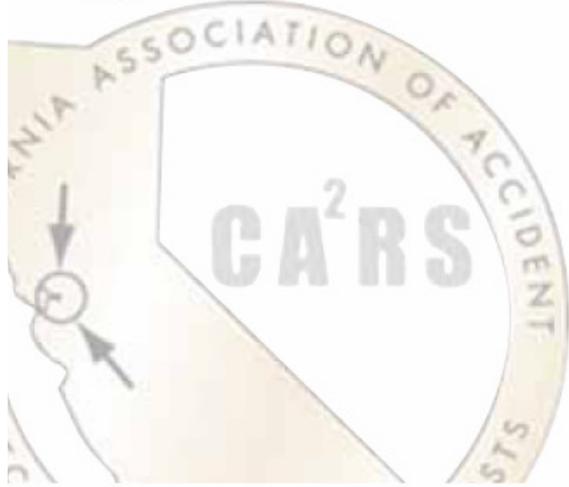
- Catered Lunches
- Evening Reception

**A Beautiful
Southern California Location
SHERATON ANAHEIM HOTEL**

- Discounted rates for the conference.
- Located across from Disneyland.

**Make Your Reservations
NOW!**

Sheraton Anaheim Hotel
(866) 716-8130 or
www.starwoodmeeting.com/book/ca2rs
to book online



CA²RS HEADQUARTERS
P.O. Box 53536
San Jose, California 95153



California Association
of Accident Reconstruction Specialists

Presents

**CA²RS
TOOLBOX**
A Reconstruction Grab Bag



Anaheim, California
October 18-20, 2007

OCTOBER 18-20, 2007

SESSION TOPICS:

- Commercial Vehicle Reconstruction Issues
- High Speed Offset Collisions
- Insurance Fraud Schemes
- Night Time Visibility
- Pedestrian Collision Investigation
- Post Impact Trajectories
- Understanding Low Speed Collisions

SPEAKERS INCLUDE:

- Jerry Eubanks, Automobile Collision Cause Analysis
- Tim Reust, Accident Science, Inc.
- Bruno Schmidt, Schmidt Consulting Services LLC
- Chief Tony Torres, California Department of Insurance
- Representatives from MEA Forensic

HOTEL INFORMATION

SHERATON ANAHEIM HOTEL

900 South Disneyland Drive
Anaheim, California 92802

RESERVATIONS:

www.starwoodmeeting.com/book/ca2rs
or call 866-716-8130 and be sure to inform the operator you are with the CA2RS Conference.

Special hotel rates:

Single or double \$99.00* per night includes free parking. Rates will be honored 3 days before and after the conference. Children 18 and under stay free in parents room.

*Rates are subject to applicable state and local occupancy tax, currently at 15.25%.

* Complimentary parking provided at hotel.*

CONFERENCE SCHEDULE

TUESDAY, OCTOBER 16

ACTAR Preparation Class

WEDNESDAY, OCTOBER 17

ACTAR Exam

THURSDAY, OCTOBER 18

Registration

Opening Ceremonies

General Session

Catered Lunch

General Session

Exhibitors' Displays & Reception

FRIDAY, OCTOBER 19

General Session

Catered Lunch

General Session

SATURDAY, OCTOBER 20

General Session

Closing Ceremonies

CONTACT INFORMATION

For information about

conference registration, contact

Karen Haverkamp

at khaver@riversideca.gov or (951) 353-7980

For information about

the conference schedule, contact

Chris Kauderer at

(916) 952-5643 or chris@chriskauderer.com

www.CA2RS.com

CA2RS
2007 Conference

**CA2RS
TOOLBOX**
A Reconstruction Grab Bag

REGISTRATION FEES

RECEIVED ON OR BEFORE

AUGUST 31, 2007 \$250.00
Received Sept. 1st-Sept. 21st \$300.00
Received Sept. 22nd-Oct. 15th \$350.00
At the door \$400.00

Non-members add \$75.00 to above prices.

REGISTRATION INCLUDES:

All Conference Sessions and Materials,
Two Continental Breakfasts, Two Lunches,
Two Afternoon Snacks, Vendor Exhibits,
and Evening Reception

Registration must be completed online at:
www.regonline.com/142764

Multiple registrations may be combined.
Payments by credit card and purchase order
are accepted.

Be a vendor • Check out our website!

ACTAR TEST PREPARATION CLASS

The goals of this session are to relieve test anxiety; bolster confidence; offer test taking tips; review test standards, types of questions and problems; scoring procedures and time limits; review basic concepts and theories; and work practice problems.

• **\$25.00 for CA2RS members**

Fee will be waived for CA2RS members registered for the conference

• **\$50.00 for non-CA2RS members**

Quarterly Training Review



(Continued from page 1)

If you have access to Computer Aided Drawing (CAD) software, you have an advantage over the graph paper because you can draw the outline of the damaged vehicle and then overlay the outline of an undamaged exemplar, which is very useful for comparing the two vehicles. Still another advantage to having CAD software is for aligning the profile of two or more damaged vehicles to see how they came into contact with each other.

Chris Kauderer covered Do's and Don'ts of Crush Measurements. He discussed the difference between contact and induced damage, the importance of knowing the difference between the two, and how to document the damaged area.

Equally important in knowing what to measure is to determine the height at which crush will be measured for both the front and rear as well as the side of the vehicles. Crush should normally be measured at the height of the vehicle frame (bumper height). Underride or override damage can be tricky to measure.

Those not familiar with the term "airgap" learned that this needs to be taken into account when taking crush measurements.

Our training included a hands-on demonstration where we had the opportunity to participate in setting up the Crush Jig as well as observing a total station in use to document vehicle damage. Questions were answered during this demonstration regarding how and what to measure.

If you missed the training, contact a CA2RS member who was there and get a copy of the handout material. You'll find it easy to follow and useful as a refresher. The collision damage documentation form that accompanied the handout material is a useful form to carry with you while doing vehicle inspections.

- Joel Salinas



Schedule of Accreditation Examinations

For a full/current schedule, see WWW.ACTAR.ORG

DATE:	Monday October 8, 2007
LOCATION:	Seattle, Washington
SPONSOR:	WATAI
CUTOFF DATE:	September 8, 2007
COMMENTS:	Held before WATAI Fall Conference
DATE:	Wednesday October 17, 2007
LOCATION:	Anaheim, California
SPONSOR:	CAARS
CUTOFF DATE:	September 17, 2007
COMMENTS:	Held before CAARS Annual Conference
DATE:	Tuesday October 23, 2007
LOCATION:	Binghamton, New York
SPONSOR:	NYSTARS
CUTOFF DATE:	September 23, 2007
COMMENTS:	Held before NAPARS/NATARI/NYSTARS/NJAARS/MdATAI Joint Conference
DATE:	Sunday November 4, 2007
LOCATION:	San Diego, California
SPONSOR:	SATAI
CUTOFF DATE:	October 4, 2007
COMMENTS:	Held in conjunction with fall meeting
DATE:	Saturday November 17, 2007
LOCATION:	Kansas City, Missouri
SPONSOR:	CMSU
CUTOFF DATE:	October 17, 2007
COMMENTS:	
DATE:	Sunday December 2, 2007
LOCATION:	Augusta Maine
SPONSOR:	NAPARS
CUTOFF DATE:	November 2, 2007
COMMENTS:	
DATE:	Monday December 3, 2007
LOCATION:	Natick, Massachusetts
SPONSOR:	ACTAR
CUTOFF DATE:	November 3, 2007
COMMENTS:	
DATE:	Tuesday December 4, 2007
LOCATION:	Springfield, Missouri
SPONSOR:	CMSU
CUTOFF DATE:	November 4, 2007
COMMENTS:	
DATE:	Tuesday December 11, 2007
LOCATION:	Cary, North Carolina
SPONSOR:	ACTAR
CUTOFF DATE:	November 11, 2007
COMMENTS:	
DATE:	Wednesday January 30, 2008
LOCATION:	Hershey, Pennsylvania
SPONSOR:	PSP
CUTOFF DATE:	December 30, 2007
COMMENTS:	



Briefed Meeting Minutes

CAARS Board Meeting
June 23, 2007
Governor's Inn
Sacramento, CA

CALL TO ORDER

Present:

Voting members – Kent Boots, Chris Kauderer, Dave Willat, Paul Wade, Paul Arnold, and Karen Haverkamp

Non-voting members – None

Absent:

Voting members – Vice-chair, Joel Salinas
Non-voting members – Rudy Degger, Kevin Cassidy, and Jennifer Colunga

OLD BUSINESS

- Discussion regarding review and approval of minutes from March 3rd Meeting
- Votes that took place at last meeting (one email read in and two motions voted upon, action items)
- Discussion about MapScenes conference sponsorship from 2006

Motion to table the approval of the minutes until the next board meeting; motion carried unanimously

- Discussion on what a good job Jennifer is doing with the newsletter

Vote read into record: Motion to have the 5th year Anniversary Cruise on Carnival Elation departing April 24th, 2008, sailing from San Diego and returning on April 28th, 2008; motion carried unanimously

- Discussion regarding compensation for someone to type the meeting minutes

Motion to reimburse Jennifer with \$100.00 for

(Continued on page 9)

Training Calendar



Date	Location	Topic	RSVP
10/16/07	Sheraton Anaheim Hotel	ACTAR Prep Class	Register online at www.regonline.com/142764
10/17/07	Sheraton Anaheim Hotel	ACTAR Exam	Visit www.actar.org to register. Registration deadline is 9/17/07.
10/18/07—10/20/07	Sheraton Hotel 900 S. Disneyland Dr. Anaheim, CA	CA ² RS Toolbox: A Reconstruction Grab Bag	Register online at www.regonline.com/142764
4/24/08—4/28/08	CA ² RS 2008 5th Anniversary Training Cruise San Diego	“Applied Physics for Accident Reconstruction” Dr. Bruno Schmidt	www.ca2rs.com/events/2008_Cruise.pdf www.ca2rs.com/events/2008_Cruise_Forms.pdf

All training is from 0800—1700 hours unless otherwise specified. See www.CA2RS.com for updates!

(Continued from page 8)

last meetings minutes; motion carried unanimously

- Discussion regarding compensation of training speakers for travel, lodging, and meals
- Discussion regarding 3rd quarter speakers for North and South trainings
- Discussion regarding magazine subscriptions for general membership & updating membership applications to accommodate the subscription offer
- Discussion of changes to database for search purposes of ACTAR and subscription members
- Discussion on 2007 Conference, location to be Anaheim Sheraton, dates October 18th, 19th and 20th for the conference. ACTAR prep on the 16th. ACTAR test on the 17th, food and room options, sponsors & vendors, potential speakers and topics
- Discussion on conference pricing for members and non-members

Motion to raise the conference fees for 2007 by \$50.00 for CAARS members and \$75.00 for non-member; motion carried 5-1

(Continued on page 13)

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Introducing...

YOUR CANDIDATES

Jahna Beard

I have been a police officer with the Los Angeles Police Department for 14 years and worked in a traffic assignment for almost 11 years.

CA2RS has changed in the last four years, since I have become a member. It has grown in membership and continually improved on the training and offers for its members. I've seen the other board members work hard to organize training, the web site, etc., and I would like to do my part to help out in the organization, planning and continued improvement.

Monica Fransen

I have been a Community Service Officer at Clovis Police Department for 8 years, and have investigated over 300 collisions as a first responder. I have attended the POST core collision investigation courses including Traffic Accident Reconstruction II. I am a member of the CPD Traffic Reconstruction Team and actively participate in major injury/fatal reconstructions.

I have been a CA2RS member since August of 2005 and have attended most of the quarterly training sessions and conferences since that time. I attended my first CA2RS training cruise in 2006. As a NHTSA Child Passenger Safety Instructor, the traffic issue that is closest to my heart is child passenger safety. I believe that my training and experience in this area would be a valuable resource to the Board and membership.

David Heinbaugh

My name is Ofc. David Heinbaugh, and I am currently employed with the San Ramon P.D. Up until July 1st of 2007, I was employed as a deputy sheriff, with the Contra Costa County Sheriff's Office for 17+ years. During the last 12 of those years, I was assigned to the City of San Ramon, when it was a contract city of the sheriff's office. In 1996, I was assigned to the traffic division. During these 11 years, I have completed almost every traffic collision course offered, and in November of 2006, I finally got the nerve to take the ACTAR test. Somehow I passed the test, and made the decision that I will continue in the field of accident reconstruction privately when I retire in 5 or 6 years. I am currently a member of ARC and of the PSFM (Professional Society of Forensic Mapping).

I firmly believe that to be successful in the field of accident reconstruction, one must stay as current as you can in this ever changing discipline. I also believe that organizations like CAARS are the best way to stay

current in your training, and allow you to network with other professionals in the field. I joined CAARS in 1997, and have attended almost every training session, conference and one occasion, a cruise, during this time. Each year that I have been a member, the organization has gotten better and better. I think it is time for me to do my part for the organization by getting involved and making it even better. I look forward to serving on the Board of Directors if I am elected. Remember that, a vote for me, is, well, a vote for me.

Thank you, David Heinbaugh

Joel Salinas

I have been a CA2RS member since 2002. I have been on the board of directors since 2005 serving one year as a Board member and this past year as the Vice-Chair and Training Coordinator.

I am a Lieutenant with the Vallejo Police Department, currently assigned to the Traffic Division. I have over 23 years of law enforcement experience having worked my first four years with the California Highway Patrol and the past 19 years with Vallejo PD. I am ACTAR accredited. In addition to my full-time job I provide private Collision Reconstruction and Forensic Mapping services and I am a certified MapScenes instructor.

I am familiar with what it takes to put on quality training which is the primary goal of this organization. I believe I have the experience, energy, and the time to continue making a positive impact. I've enjoyed my past two years serving on the CA2RS board and look forward to a second term.

Sean D. Shimada, Ph.D.

Dr. Shimada received his Bachelors of Science (BS) degree from the College of Letters & Science with an emphasis in biomechanics from the University of California, Davis in 1992. He continued his education at California State University, Sacramento where he received a Master of Science (MS) from the School of Health and Human Services in 1994. His emphasis at CSU, Sacramento was in the field of exercise physiology and biomechanics. He further received a doctorate (Ph.D.) from the School of Health and Rehabilitation Sciences from the University of Pittsburgh in 1998, and a second MS degree in Bio-engineering from the university in 2000. Both of Dr. Shimada's degrees from the University of Pittsburgh were in the area of biomechanics. Currently he is the President of Biomechanical Consultants of California, a forensic biomechanics and engineering firm based out of Davis, California. He was formerly employed at the California State University, Sacramento in the Department of Kinesiology, as an instructor and Director of the Biomechanics Laboratory. His primary area of consulting and research is focused on identifying, determining the likelihood, and prevention of injury. Dr. Shimada has authored four book chapters,

nearly 20 peer-reviewed journal publications, over 20 peer-reviewed conference proceedings, and multiple abstracts in the biomechanics, medical, and engineering field. He has presented and conducted a number of research studies at meetings and conferences such as California Association of Accident Reconstruction Specialists (CAARS), Rehabilitation Engineering Society of North America (RESNA), United States Olympic Committee-Paralympic Congress (USOC, IOC), Forensic Accident Reconstructionist of Oregon (FARO), and the National Institute of Forensic Studies (NIFS). It is Dr. Shimada's strong desire to participate in CAARS at a higher level as one of its first board members who emphasizes their forensic practice on biomechanics.

Russell A. Townsley

I am a 17-year law enforcement officer. I have worked as a traffic officer, collision investigator for the past 13-years. I have completed over fifty collision reconstructions during my career. I have filed over twenty cases with the District Attorney's Office for vehicular manslaughter cases.

If elected as your board member for California Association of Accident Reconstruction Specialist, I will work hard to ensure our association provides its members the reconstruction training that they want. I will be available to assist and provide resources to our members. I will work to increase the membership of our association. I would appreciate your vote for the position of board member for our association.

Russell A. Townsley
Deputy Sheriff
Los Angeles Sheriff's Department

Chris Kauderer

I have been a member of CA²RS since 1999 and have served as a member at-large on the CA²RS Board of Directors since 2003. This year I am the Co-Chairman of the Annual Fall Conference to be held in Anaheim in October. I have 22+ years experience in the area of accident reconstruction and am ACTAR Certified. In addition to working as a Private Accident Reconstructionist in Northern California, I also teach accident reconstruction throughout the state. I have enjoyed participating in the activities and growth of the CA²RS organization during my 4 years as a Board member. This year I am seeking re-election to the CA²RS Board of Directors as Vice-Chair. I believe my experience on the CA²RS Board of Directors would allow me to be a valuable resource to the Board and its membership. If elected, I will continue to ensure the best interests and opinions of the entire organization are heard. Your support is appreciated.

Paul Wade

I am seeking your support this November in retaining my position as a CAARS board member. I was

appointed to this position last year and have enjoyed my time serving the needs of the membership.

We have accomplished many things within the past year. We have a new cruise format and a great speaker. Members now can purchase several different magazine subscriptions at a reduced rate. These are just a couple of items that were approved by the board this last year and there are several more items still being worked on I wish I could tell you about. Personally, I have been responsible for the southern section quarterly trainings and had the pleasure of teaching the last quarterly session. I also have been tasked with coordinating and arranging this years' pre-conference crash testing.

I believe I bring a wide range of knowledge to CAARS. I am a police officer with 21 years experience and have been performing collision reconstructions since 1994. I own my own private reconstruction business and hold an ACTAR certification as well. I am constantly trying to improve my wealth of knowledge just like you. I am receptive to member's suggestions and have passed them on to the board. I will continue to do this for as long as I can as a board member.

The current CAARS board has been very productive and has worked well together to make this organization a strong presence in the reconstruction world. Take the time to thank Karen Haverkamp for the hard work she has performed while as a board member for this organization. Without her hard work, many things you enjoy as a member of CAARS would not be possible.

Thank you for your support, Paul Wade



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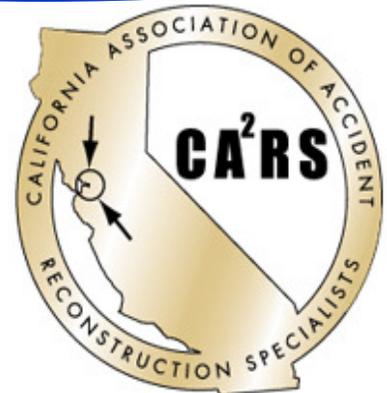
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**CA²RS
5th Anniversary
Cruise Training**

April 24-28, 2008

April 24-28, 2008



Invite your family & friends and join your fellow CA²RS members for our 5th Anniversary Cruise Training. Spend Thursday afternoon, Friday and Sunday floating and relaxing at sea. Saturday explore Cabo San Lucas, Mexico. The members only training will be held Thursday and Friday. This is a great opportunity to network, learn, relax, or just spend time with family & friends!

***Our guest speaker is Dr. Bruno Schmidt presenting :
"Applied Physics for Accident Reconstruction"***

This extra training will take a look at different, alternate approaches that other reconstructionists might take in analyzing a collision, and how to critically assess those approaches to determine if they are valid. It will give those who attend a better understanding of the physics of accident reconstruction, and how to communicate that understanding to others. It promises to be more fun than getting hit on the head with an apple!

Great for law enforcement and private reconstructionists! Earn ACTAR CEUs!

***Carnival ELATION
4 day Mexico Itinerary***

Day	Port	Arrive	Depart
Thur.	San Diego	————	5:30 pm
Fri.	"Fun Day" at Sea		
Sat.	Cabo San Lucas	8:00 am	4:00 pm
Sun.	"Fun Day" at Sea		
Mon.	San Diego	8:00 am	————

For more information on the Cruise or the training contact:
Karen Haverkamp at (951) 353-7980 or
email at khaver@riversideca.gov
Also see www.CA2RS.com or check out
Carnival Cruise website at
www.carnival.com

BRIEFED MEETING MINUTES

(Continued from page 9)

- Discussion regarding vendors; vendor rates and sponsor rates, fees/costs of vendors who also attend the conference, vendor recognition at conference

Motion to leave the vendor fees at \$200.00; motion carried unanimously

- Discussion continues regarding the conference; speaker travel reimbursement, planning committee

Motion to budget \$15.00 per person for conference attendee giveaways; motion carried unanimously

Motion that Karen Haverkamp be given a \$500.00 budget for conference speaker gifts and raffle prizes; motion carried unanimously

- Discussion on thanking people who submit items, articles, pictures for newsletters, etc.

NEW BUSINESS

- Discussion regarding ACTAR CEUs

Motion to adjourn the meeting; motion carried unanimously



From the pages of
AHAJOKES
.COM

The following are actual, real-life accident descriptions given on insurance claim forms...

- *To avoid hitting the bumper of the car in front of me, I struck a pedestrian.*
- *I was on my way to the doctor with rear-end trouble when my universal joint gave way causing me to have an accident.*
- *I thought my window was down, but I found out it was up when I put my head through it.*
- *Coming home I drove into the wrong house and collided with a tree I don't have.*
- *A truck backed through my windshield into*

my wife's face.

- *I collided with a stationary truck coming the other way.*
- *The guy was all over the road. I had to swerve a number of times before I hit him.*
- *I pulled away from the side of the road, glanced at my mother-in-law, and headed over the embankment.*
- *In an attempt to kill a fly, I drove into a telephone pole.*
- *I had been shopping for plants all day and was on my way home. As I reached an intersection a hedge sprang up, obscuring my vision and I did not see the other car.*
- *I had been driving for 40 years when I fell asleep at the wheel and had an accident.*
- *As I approached an intersection a sign suddenly appeared in place where no stop sign had ever been before. I was unable to stop in time to avoid the accident.*
- *My car was legally parked as it backed into another vehicle.*
- *An invisible car came out of nowhere, struck my car and vanished.*
- *I told the police that I was not injured, but on removing my hat found that I had a fractured skull.*
- *I was sure the old fellow would never make it to the other side of the road when I struck him.*
- *I saw a slow-moving, sad-faced old gentleman as he bounced off the roof of my car.*
- *The indirect cause of the accident was a little guy in a small car with a big mouth.*
- *I was thrown from my car as it left the road. I was later found in a ditch by some stray cows.*
- *The telephone pole was approaching. I was attempting to swerve out of the way when I struck the front end.*
- *The pedestrian had no idea which way to run as I ran over him.*

Jennifer Colunga is the current editor for the CA²RS Newsletter. For questions, comments and/or newsletter contributions, please contact Jennifer at editor@ca2rs.com.





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SKIDEMARKS