



# California Association of Accident Reconstruction Specialists

## SKIDEMARKS

No. 40

April 2008

The 2007 CAARS Annual Training Conference "CA2RS Toolbox - A Reconstruction Grab Bag" was held in Anaheim, CA this past October. The Conference was well attended and received.

The Conference Presenters included:

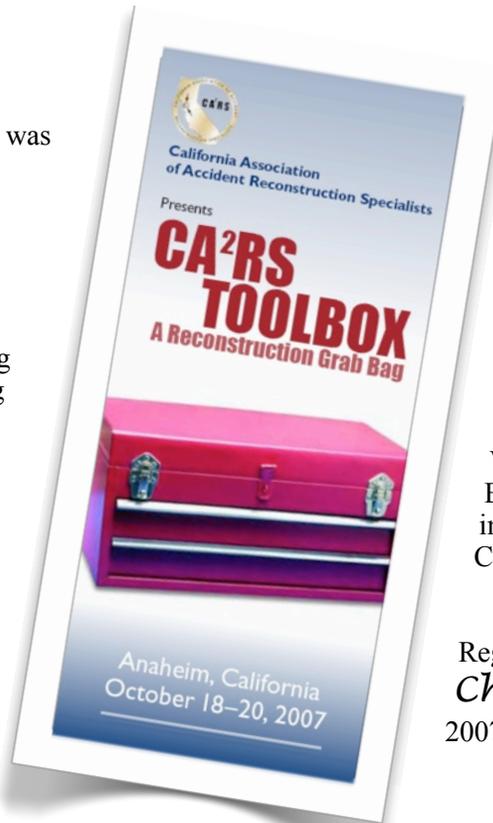
- Bruno Schmidt, Schmidt Consulting
- Jerry Eubanks, Automobile Collision Cause Analysis
- Dave King, MEA Forensic Engineering
- Ryan Fixx, MEA Forensic Engineering
- Tim Reust, Accident Science
- Tony Torres, CA Dept of Insurance

Vendors Present were:

1. 4n6Xprts
2. Map Scenes
3. Visual Statement
4. Bergeson Survey Supply Equipment
5. The Box Store - Mark Azzouni
6. Hand Held Design, Inc.
7. 21st Century Animation

Sponsors included:

- Visual Statement
- Factual Diagrams.com
- Collision Forensic Solutions
- CadZone



I would like to thank everyone who helped with the Conference with special thanks to Karen Haverkamp Conference Co-Chair, who expertly handled the Hotel Accommodations and Arrangements; Paul Wade, Crash Test Coordinator; Joel Salinas, Vendor Coordinator; and Kent Boots, all around support including production of Conference CDs.

Regards  
*Chris Kauderer*  
2007 Conference Co-Chair

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## 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*

# CA<sup>2</sup>RS 10th Anniversary

As we approach the 10-year anniversary of CA<sup>2</sup>RS, I was asked to write a history of the Association. CA<sup>2</sup>RS has its roots in a small group of Police Officers from various Santa Clara County agencies. These Officers originally called the group the “Consortium of Accident Reconstruction Specialists” (CARS). The original CARS based itself on the same premise as today’s CA<sup>2</sup>RS. The Officers felt that there was a need for more training to increase the expertise of Police Officers in the field of accident investigation/reconstruction.

The original CARS was a fairly loose-knit and informal group. There were no dues and they met on an irregular basis. Due to its small size (less than 15 officers), a unique aspect of the group was its ability to discuss and troubleshoot cases. If an investigator was having trouble solving a particular case that he was working, the group would kick around ideas to help him out. If someone had a case that they found an interesting solution to, they would present it to the group. This form of peer review was especially helpful to the smaller agencies where the accident reconstructionist might not have any peers in his own department to review his work.

Some of the original members of CARS were David Johnson, Al Sutcliffe, and Gene Kishmishian of the San Jose PD, Frank Bozzo of the Gilroy PD, and Mike DiTallo of the Sunnyvale DPS. (Mike has since left police work and now instructs at Northwestern.) I was fortunate enough to be present at what became the last meeting of CARS shortly after I joined San Jose PD’s Traffic Investigations Unit. Some of the leaders of CARS moved on to other assignments and, as is common with all-volunteer organizations, nobody else stepped in to keep the group going.

In 1997, while attending a class taught by Rudy Degger, I mentioned the now-defunct CARS. He pointed out that there were other similar organizations such as SATAI and NAPARS. However, there were none in California. Rudy’s wife, Nancy, was standing nearby and overheard our conversation. She offered up that, if we were to start an organization, she and another of their office staff, Jennifer Johnson, would perform the administrative functions.

Our first organizational meeting took place on April 13<sup>th</sup>, 1998. It was attended by myself, Karl Pringle, Al Sutcliffe, and Mike McIntyre of the San Jose PD, Dan Buckner, Rudy Degger, Nancy Degger, and Jennifer Johnson of Rudy Degger & Associates, Rich Bullerjahn and Duane Tannock of the Palo Alto PD, Jim Willette of the Mountain View PD, John Hansen of the Los Altos PD, and Norm Henry and Deanna Kubas of the Santa Clara PD. We hashed out several items that day and ended up with me being the first Chairman, Duane being Vice Chair, and Al, Jim, and Rudy rounding out the rest of the Board of Directors. We can blame Duane for the suggestion of the type-stalling exponent “2” in the name, but he made up for it by coming up with the Association’s logo.

In the early days, with the help of advertising in Rudy’s classes and classes being taught in Southern California by Kerry Berg, CA<sup>2</sup>RS grew rapidly. The dues were \$25 and the training classes were limited to four hours. We held our first training meeting in San Jose in July 1998. It was well attended and the topic was motorcycle drag factors. We had fun dropping motorcycles out of the back of a U-Haul trailer and taking the appropriate measurements, etc.

Rudy taught that first class and many that followed. In fact, the survival of CA<sup>2</sup>RS those first few years was due in no small part to the financial and administrative help supplied by his company. Rudy was instrumental in getting CA<sup>2</sup>RS a position on the ACTAR Board, which increased our national standing. As CA<sup>2</sup>RS became more established and able to stand on its own, he, Nancy, and Jennifer were finally able to shed the duties of its day-to-day operations.

I stayed on as Chairman for the first four years and was lucky to have lots of help to make me look good. I currently do my best to keep up with the administrative paperwork involving the membership. I was succeeded by Gordon Gray of the Stockton PD and he was followed by our current Chairman, Kent Boots, formerly of the Orange County SD. Many fine folks have served as Board Members over the years and, without trying to sound cliché, I’ve always been impressed with the quality of people CA<sup>2</sup>RS has attracted. Until you’ve worked behind the scenes of the Association, you will have no idea how much volunteer time and effort has gone into creating and managing the training classes that are presented. But I like to think that it’s well worth it.

There was some skepticism early on about whether or not we could sustain a schedule of four meetings per year. Other similar organizations usually manage one a year, and for some even that is a challenge. All I can say is, so far...so good. Today CA<sup>2</sup>RS actually presents seven training meetings per year between the Southern California and Northern California locations. There’s even an additional training cruise that was spearheaded by Board Member Karen Haverkamp. Our membership has grown from the original 14 members to a high of over 300 members in several states and even foreign countries. We still tap our own members as instructors at our training meetings, but we’ve reached out across the country to recruit other nationally-recognized instructors as well.

Of the original 14 members, Al Sutcliffe, Rudy Degger, Karl Pringle, and I are still around. Jennifer Johnson is still doing a great job in a support role and has taken the Skidmark from an ordinary newsletter to something very worthy of bragging about. As for the next 10 years of CA<sup>2</sup>RS, time will tell. As I mentioned before, the survival of an all-volunteer organization is dependent upon those willing to volunteer. Here’s hoping that we never run out of people who are up to the challenge.

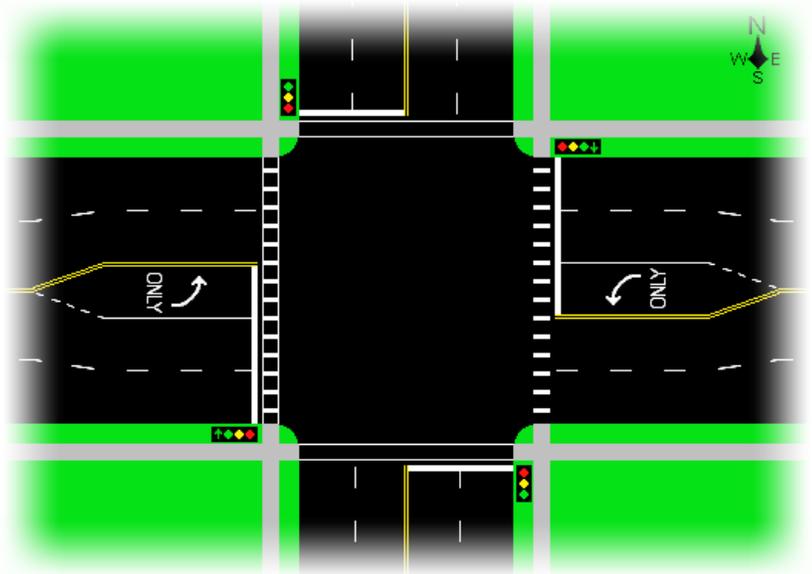
*Kevin Cassidy*



## 2nd Quarter Training

### Intersection Collisions

- ✓ Traffic Signal Nomenclature
- ✓ Traffic Signal Timing & Phasing Diagrams
- ✓ Pedestrian Signal Timing
- ✓ Yellow Times
- ✓ Dilemma Zones
- ✓ Advanced Loop Sensors
- ✓ Perception Reaction Factors at Intersections
- ✓ Last Look Phenomenon
- ✓ Path Intrusions
- ✓ Gap Judgment
- ✓ Start Up Delay



#### Southern California

Tuesday May 13, 2008 8am - 4pm  
 Orange County Sheriff's Department  
 Katella Training Facility & Range  
 1900 W. Katella  
 Orange, CA  
 RSVP Contact: Paul Wade [pwade@ocsd.org](mailto:pwade@ocsd.org)

#### Northern California

Thursday May 15, 2008 8am - 4pm  
 Vacaville Police Department  
 660 Merchant Street  
 Vacaville, CA  
 RSVP Contact: Joel Salinas [joelsalinas@sbcglobal.net](mailto:joelsalinas@sbcglobal.net)



## Calendar of Events

Date	Location	Topic	RSVP
4/24/08 - 4/28/08	CA <sup>2</sup> RS 2008 5th Anniversary Training Cruise - San Diego	"Applied Physics for Accident Reconstruction" - Dr. Bruno Schmidt	All reservations have been made.
10/16/08 - 10/18/08	CA <sup>2</sup> RS 2008 Annual Training Conference - Sacramento	Speaker: John Daily, nationally renowned reconstructionist and author of <i>Fundamentals of Traffic Crash Reconstruction</i>	Stay tuned for more information...
All training is from 0800 - 1700 hours unless otherwise specified.			

# CA<sup>2</sup>RS Crash Testing - Annual Conference Review

by Paul Wade

For the two days prior to the conference, we conducted various crash testing at the Honda Center in Anaheim. We began testing each day at 7 am and carried on through until about 2pm. The first day of testing consisted of Low Speed crash tests, led by Dave King of MEA, and Pedestrian crashes led by Jerry Eubanks from Automobile Collision Cause Analysis. The local newspaper, the Orange County Register, was present at the testing. The Register published a printed article and a video of our events.

Dave King's tests involved several compact vehicles. Initially we pushed one vehicle into the other, simulating a sideswipe collision. Soon after, the collisions were created by ramming one vehicle into a parked vehicle to simulate different vehicle overlap conditions. The tests then required a crash test dummy/driver, and I volunteered. With threaded precision, I accelerated to 18 mph (yes, each time!) putting my life in jeopardy for testing purposes. The speed changes felt like bumps in the roadway. Harrowing! Good data was obtained from each test and was provided to the group at the end of the conference.

As the low-speed collision testing was taking place, Jerry Eubanks had his group working on pedestrian crashes. The vehicle speeds varied from 5 mph to nearly 40 mph. Single pedestrian and double pedestrian tests were conducted. I believe I even saw a bicycle go flying by. The Grand Finale was a reenactment of an actual crash. Anaheim PD brought in their helicopter so that we could record this crash from the air. Unfortunately the operator of the camcorder made everyone look like ants scurrying across the ground. It was cool to watch it from above but so much for the video!

As the sun rose on day two, so did we. Day two was filled with acceleration and braking tests of buses, fire trucks, and any other vehicle we happened to drive up in. Tim Reust was quite busy on this day, documenting all of the data. Bill Focha donned his coveralls and joined in. Anaheim Fire Department brought out their brand new ladder truck, the kind with the fireman steering from the rear. We were all quite surprised to see how well this rig braked. In total we tested three different fire trucks, two transit busses, and countless personal vehicles.

After the two days of testing, much data was gathered and the information was given to the attendees. This event could not have taken place without the hard work of the people helping at the event and those doing the work afterwards. Jerry Eubanks, Dave King and their crews spent numerous hours gathering the data together so that it could be given to the attendees. Thanks to all involved for valuable data and another hands-on testing experience.



## New Member Spotlight

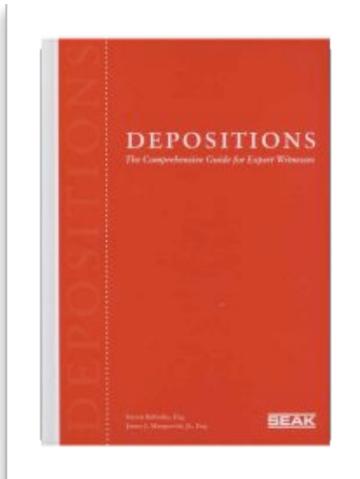
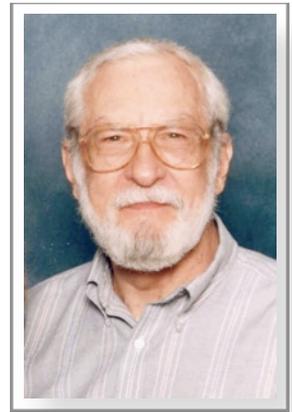
NAME	DEPARTMENT/BUSINESS
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Chad Bluette	Elk Grove PD
Terry L. Brown	Novato PD
Brian Callagy	Brea PD
Glenn Callaway	Los Angeles County PD
Nicholas Frey	Novato PD
Michael Greenfield	
Robert Haefner	Brea PD
Thomas James	Brea PD
William Sommers	William Sommers Collision Analyst
Paul Villeneuve	Orange County SO
Kurt Douglas Weiss	Automotive Safety Research, Inc.

# From The Bookshelf

## Another book review from Joseph E. Badger...

*Depositions: The Comprehensive Guide for Expert Witnesses* by Steven Babitsky and James Mangraviri, Jr.



For some of you, that title may sound familiar. At least the authors' names may look familiar.

The reason is that those two gentlemen have written *How to Become a Dangerous Expert Witness*, *The A-Z Guide to Expert Witnessing*, *Writing and Defending Your Expert Report*, and *Cross-Examination: The Comprehensive Guide for Experts*, as well as a number of other books.

On the back of this latest text, it explains the book's reason for being: "The overwhelming majority of all testimony given by expert witnesses is given in depositions. This book shows expert witnesses how to excel during their depositions."

(I found that one of the book's better features is what it tells you NOT to do at depositions.)

For many of you, this 425-page book will be more of a refresher rather than a primer. In that case, consider this suggestion. Without actually reading every word on every page, notice that throughout each chapter, many pages have one or two "Practice Pointers" each consisting of a short paragraph. These are helpful hints the authors have found to be of benefit to experts before and during depositions.

One such Pointer states, "Experts should not be evasive at depositions. A good attorney will keep asking questions until the expert is forced to answer. Evasiveness reflects poorly on an expert."

Speaking of which, the authors caution readers to be careful during videotaped depositions, as they can be "quite useful to show a jury the expert's demeanor or evasiveness."

In addition, at the end of each chapter, a single sentence "Conclusion" sums up that chapter's topic. If you're pressed for time, just reading the Conclusion might cause you to go back and absorb the chapter more thoroughly later on.

Besides the Practice Pointers, recommendations and suggestions are sprinkled throughout the text. For instance, it depends on the jurisdiction where you are deposed whether you are given the opportunity to read and sign your transcribed deposition. Babitsky and Mangraviri offer schools of thoughts as to signing or waiving signature. Of the latter option they note if you as the witness read and sign the manuscript you are "reaffirming your testimony and the transcription thereof and it will be much harder to explain away any parts of the transcript you might be impeached with later at trial."

If either retaining or opposing counsel requires you to read and sign, be sure to ascertain for the record who is going to pay for your time.

My wife is one of these people who always reads the last chapter of a book first. She wants to know if the butler did it. Or she wants to see who dies. Me? I look at the Table of Contents to see if any one chapter's title looks more interesting than the others do. In the case of *Depositions: The Comprehensive Guide for Expert Witnesses*, it was Chapter 8, "Setting and Collecting Your Fee."

Many attorneys choose to merely forward your bill to their client for payment. And many clients, especially some insurance companies, hold all invoices for 60 days or so before making payment. That way, *they* earn interest on the money instead of you.

Be sure you let the retaining attorney know that you are working for him or her, not their client.

Since this is a book about depositions, one question is addressed early on: ***Who is responsible for paying the expert's fee [for a deposition]?***

Federal Rule of Civil Procedure 26(b)(4)(C) provides the answer:

Unless manifest injustice would result, (i) the court shall require that the party seeking discovery pay the expert a reasonable fee for time spent in responding to discovery under this subdivision; and (ii)

with respect to discovery obtained under subdivision (b)(4)(B) of this rule the court shall require the party seeking discovery to pay the other party a fair portion of the fees and expenses reasonably incurred by the latter party in obtaining facts and opinions from the expert.

If you have been deposed very often, you've probably been served – in person or by mail – with a subpoena duces tecum. If you are not familiar with Latin, the long definition is a writ or process including a clause requiring the witness to bring with him and produce to the court, books, papers, etc., in his hands, tending to elucidate the matter in issue. In short, it's a command to a witness to produce documents. One of those is usually copies of your billing invoices or statements.

A reminder from the authors to be sure to take those bills even if you don't retain copies since your company's bookkeeper sends them out. There is a stirring two-page Q&A exchange between an attorney and medical doctor who chose not to bring the billing documents because, "That's not something that I am involved with in my practice."

The lawyer puts the doctor on the defensive and as a witness it makes him look bad. The authors' Practice Pointer following the dialogue: "The witness has caused himself much difficulty by his failure to bring the billing information and his inability to admit this directly."

Chapter 5, "What Experts Can Expect to be Asked," gives "examples of the most common lines of questioning experts can expect to face." One section is about the expert's qualifications. Having a slew of initials and degrees after your name often doesn't matter as much as hands-on experience.

In bold type and italics the authors write, "***It is the authors' opinion that jurors are far more influenced by an expert's relevant practical experience, perceived honesty, and demeanor than the expert's academic record or lack of publications.***"

And for heaven's sake, if a lawyer sends you photos, an accident report and a slew of depositions to read, you should still ask to visit the crash site before deposition or trial. If you don't, the authors warn, "this may be portrayed by [opposing] counsel as a lack of thoroughness on the part of the expert witness."

The next chapter, "Deposition Advice for Experts" is one that "is a good idea to read ... immediately prior to being deposed."

Watch for "trap questions." An example offered is:

**Q.** Are you familiar with the literature in [your] field?

**A.** Yes, I am.

**Q.** Look at this list of 1,700 articles and tell me which ones you have read.

[Gotcha!]

Beware of using "absolute words." For instance, *never, always, only, everything, all*. They can come back to haunt you.

Chapter 11 (no relation to *that* Chapter 11) is titled "Truthfully and Artfully Answering Trick and Difficult Questions at Deposition." More than 25 pages containing 244 Q&A's that have a "Lesson" following each of the authors' reasons for the suggested answers.

You'll enjoy reading the sample deposition segments where the authors name names (deponents, attorneys, case citations).

Babitsky and Mangraviri advise against using "absolute words" when testifying. Absolute words restrict possibilities. Words such as *no, never, none, always, every, entirely, and only* imply the statement must be true 100% of the time and usually indicate "false" answers.

All kinds of tidbits and hints like that and more will come in handy for your next deposition.

The book, *Depositions: The Comprehensive Guide for Expert Witnesses* by Steven Babitsky and James Mangraviri, Jr., is available through SEAK, Inc., P.O. Box 729, Falmouth MA 02541.

Customer Service: (508) 548-7023, Orders: (508) 457-1111, Fax: (508) 540-8304, Email: [Mail@seak.com](mailto:Mail@seak.com). Order online at [www.SEAK.com](http://www.SEAK.com).



# The Board BEAT

I had intended to start off by wishing everyone a Happy New Year, but we didn't quite get our Winter Newsletter out due to some technical difficulties. I was going to say that I can't believe that it is 2008 already, but I think that the new year has finally settled in for me. This year marks the 10<sup>th</sup> anniversary of the CA<sup>2</sup>RS Organization which was formed on April 13<sup>th</sup>, 1998. By the time you read this, our Birthday may have already come and gone, but we hope to commemorate the year properly. There may be some extra "surprises" in store for those attend the 2<sup>nd</sup> quarter training. There will also be special recognition at the fall conference for the remaining founding CA<sup>2</sup>RS members.

It seems like just last week we were planning for the 2007 conference in Anaheim, and yet it has already been over three months since it occurred. It was good, as always, to see those of you were able to attend the conference in Anaheim. If you were unable to attend the conference, take a look at the conference review on page 5. There are limited numbers of Conference CDs available for \$25 for members and \$50 for non-members; the price includes shipping. The CDs include secure versions of the PowerPoint presentations, PDF versions of the handout materials, and the crash test data that was presented at the conference. Plans are already in the works for this year's conference, to be held in the Sacramento area on October 16<sup>th</sup>-18<sup>th</sup>, 2008.

Elsewhere in this edition of Skidmarks you will read about the results of our Board of Directors elections. However, it is important for me to express my greatest gratitude of thanks to former board member Karen Haverkamp. Karen was elected to the CA<sup>2</sup>RS Board of Directors in the fall of 2002 and became our treasurer in the fall of 2003. She has had a key involvement in each of our conferences for the past five years. She has also taken the lead on the planning and organization for each of our training cruises. We are in the process of making a transition to a new treasurer. While Karen will no longer be part of the CA<sup>2</sup>RS board or administrative staff, I for one hope that she will continue to stay involved in the organization.

I would also like to take this opportunity to personally welcome Jahna Beard, LAPD, to the CA<sup>2</sup>RS Board of Directors. The other board members and I look forward to working closely with Jahna as we plan the future of the organization.

Our first quarter training sessions have come and gone. We are always looking for new speakers and were fortunate that Joel Salinas and I worked with Roman Beck during the pre-conference crash testing. Roman was gracious enough to agree to speak at our 2008 first quarter training on Bicycle Collision Investigation. For more details about the training session please see the training review on page 2.

Next up is the 2008 Cruise which is going to be the largest group yet. We have 34 cabins booked with a total of 71 people going on the cruise. This year is our 5<sup>th</sup> Anniversary Cruise and will be the same month as our "birthday" celebrating 10 years as an organization. It should be quite the celebration. Unfortunately, the deadline for submitting paperwork has already passed, so if you haven't already signed up you'll have to read about the cruise in a future newsletter, and plan for next year! The training, presented by Dr. Bruno Schmidt, has been well received by other reconstruction organizations.

By now everyone should have received their membership renewal receipts in the mail. The board decided to discontinue membership cards as well as the tedious process of printing renewal stickers. This was a cost saving measure since we have never required members to show their membership cards. There are plans in the future for active members to be able to print a "membership card" while you are logged into the members only area of the CA<sup>2</sup>RS web site. In the mean time, your renewal receipt can serve as proof of membership if needed.

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



Chris Kauderer  
Vice-Chair



Joel Salinas  
Director



Paul Wade  
Director



Paul Arnold  
Director



Jahna Beard  
Director



Dave Willat  
Director



The ACTAR Governing Board of Directors is made up of representatives from the twenty-three participating organizations. CA<sup>2</sup>RS is the third largest participating organization. As a participating organization CA<sup>2</sup>RS maintains a full-time ACTAR representative as part of the ACTAR Board of Directors. The CA<sup>2</sup>RS Liaison to ACTAR is appointed by the CA<sup>2</sup>RS Board of Directors, serves at its discretion, and reports directly to them.

In late November of 2007, the CA<sup>2</sup>RS Board of Directors received notification from our Liaison to ACTAR, Rudy Degger, that he was tendering his resignation effective December 31<sup>st</sup>, 2007. Rudy was one of the founding members of CA<sup>2</sup>RS and has provided many services to

the CA<sup>2</sup>RS organization during his tenure. He has been the CA<sup>2</sup>RS Liaison to ACTAR since CA<sup>2</sup>RS became a participating organization of ACTAR. We greatly appreciate the dedication and servitude that Rudy has given to the CA<sup>2</sup>RS organization as the liaison to ACTAR. The CA<sup>2</sup>RS organization would most likely not exist today if it weren't for Rudy's support and contributions over the past 10 years.

On December 6<sup>th</sup>, 2007, a mass e-mail went out to all CA<sup>2</sup>RS members announcing the pending vacancy. Those CA<sup>2</sup>RS members in good standing who were ACTAR accredited were eligible to apply by submitting letters of interest.

The CA<sup>2</sup>RS Board of Directors has selected Jincy Pace, ACTAR #1571, as our Liaison to ACTAR.

Jincy graduated from the United States Military Academy at West Point with a Bachelor of Science in General Engineering in 1994. She is currently employed by the San Jose Police Department as an Accident Reconstructionist in the Traffic Investigations Unit. Jincy has been ACTAR accredited for nearly four years and has already obtained enough ACTAR CEUs to renew her accreditation.

She has been a CA<sup>2</sup>RS member in good standing since 2002. She has attended a vast majority of the quarterly training sessions and attended all but one annual conference.

Jincy's experience, dedication, and ability will make her a worthy selection for the CA<sup>2</sup>RS Liaison to ACTAR position.

## ACTAR Examination Schedule

**DATE:** Thursday June 5, 2008  
**LOCATION:** Springfield, Missouri  
**SPONSOR:** CMSU  
**CUTOFF DATE:** May 5, 2008  
**COMMENTS:**

**DATE:** Monday July 14, 2008  
**LOCATION:** Seattle, Washington  
**SPONSOR:** WATAI  
**CUTOFF DATE:** June 14, 2008  
**COMMENTS:**

**DATE:** Monday September 15, 2008  
**LOCATION:** Golden, Colorado  
**SPONSOR:** CSP  
**CUTOFF DATE:** August 15, 2008  
**COMMENTS:**

**DATE:** Friday October 10, 2008  
**LOCATION:** Natick, Massachusetts  
**SPONSOR:** IAARS  
**CUTOFF DATE:** September 10, 2008  
**COMMENTS:**

**DATE:** Monday October 13, 2008  
**LOCATION:** Seattle Washington  
**SPONSOR:** WATAI  
**CUTOFF DATE:** September 13, 2008  
**COMMENTS:**

# Board of Directors Elections

The CAARS Board of Directors Election was held at the 2007 CAARS Conference in Anaheim.

The results of the 2007 Election for the open CAARS Board of Directors positions are as follows

Vice Chairman --- Chris Kauderer, Kauderer & Associates

Director ---- Jahna Beard, Los Angeles P.D.

Director ---- Joel Salinas, Vallejo P.D.

Director ---- Paul Wade, Orange County Sheriff's Office

The term for these people elected to serve on the CAARS Board of Directors is 2 years.

Congratulations to those elected and special thanks to the other members who sought election to the Board of Directors. The number of members interested in joining the Board of Directors is encouraging and healthy for the organization.



## Great training opportunity!

Jeff Muttart's Human Factors for Traffic Accident Reconstruction course comes to the west coast. The class is being held in the Sacramento area January 12<sup>th</sup>-16<sup>th</sup>, 2009. The cost of the course is \$695 per student which includes a catered hot lunch all five days. **CAARS members receive a \$50 discount on the tuition and only pay \$645.** You must be a CAARS member in good standing at the time of class registration.

This five day (40+ hour) class will introduce the attendee to terms and conventions as well as research methods. The History of Reaction Time Research will be covered from the invention of the stop watch to present day driver response time research. Attendees will realize there is no single perception/response time. Different stimulus/response scenarios will result in different perception/response times. The course will improve the attendee's ability to understand, articulate, and evaluate driver response for various situations. It will also give attendees a better understanding of what a "normal" driver is.

Jerry J. Eubanks, Automobile Collision Cause Analysis, described this class by stating, "I learned more in this one class than in all the human factors seminars I have taken over my whole career." and stated, "I thought this was probably in the top 2 or 3 classes I have ever taken."

More information is available at [www.factualdiagrams.com](http://www.factualdiagrams.com)

**Briefed Meeting Minutes**  
**CA<sup>2</sup>RS Board of Directors Meeting on September 15, 2007**  
**Governor's Inn, Sacramento, CA**

**Meeting called to order (at approx. 9:00 am)**

Present: Kent E. Boots, Joel Salinas, Karen Haverkamp, Chris Kauderer, Dave Willat, Paul Wade, Paul Arnold  
Absent: Rudy Degger, Kevin Cassidy and Jennifer Colunga.

**OLD BUSINESS:**

**MOTION:** Karen Haverkamp makes a motion to approve June 23<sup>rd</sup> board meeting minutes as typed. Joel Salinas seconds the motion.

**VOTE:** Motion carried unanimously

E-mail vote ready into the record

**MOTION:** On August 8 Joel Salinas made a motion to select Bruno Schmidt to speak at the 2008 cruise on applied physics. On August 8 Dave Willat seconded the motion.

**VOTE:** The motion carried 6-1

- Discussion regarding reimbursement/compensation for someone typing the minutes.
- Report on 2007 Cruise by Karen
- *Discussion on topic out of order because board members needed to leave the meeting early*
- Discussion on 2007 Conference regarding hotel room nights, registration, and vendors. Discussion regarding the food arrangements and vendor reception
- Discussion regarding the final conference schedule, handout materials, and speaker reimbursement
- Discussion regarding conference CDs; content and deadlines
- Discussion about conference vendors and sponsors
- Discussion about conference crash testing
- Discussion regarding ACTAR CEUs and Rudy's faxed report
- Discussion on Conference certificates regarding the proper language; "certificate of attendance"

**(BRIEF BREAK) (KAREN LEAVES MEETING) (BREAK FOR LUNCH) (BACK ON THE RECORD 1:25)**

- 3<sup>rd</sup> Quarterly Training Wrap Up; 34 attended in Santa Rosa & 35 attended in Orange, positive feedback on topics and speakers
- Discussion on Training led by Joel regarding travel reimbursement, facilities, locations, and future speakers
- Discussion regarding magazine subscriptions; overall the numbers are lower than expected
- Discussion regarding the 2008 Cruise; paperwork has been mailed and information is posted on the web site
- Discussion regarding the 2007 Board Elections: nominees are: Chris Kauderer running unopposed for Vice-Chair. Jahna Beard, Monica Franksen, Dave Heinbaugh, Joel Salinas, Sean Shimada, Russ Townsend, and Paul Wade for director at large
- Discussion regarding the policy manual revisions and assignments
- Discussion regarding a Yahoo Group for CAARS members
- Discussion regarding improvements to the CAARS web site
- Membership Report; Current members 206, active – renewed, 131 non-renewed members from June of '07

**NEW BUSINESS**

None

**MOTION:** Chris Kauderer makes a motion to adjourn the meeting. Paul Wade seconds the motion.

**VOTE:** Motion carried unanimously.

**END OF RECORD**

Briefed Meeting Minutes  
CA<sup>2</sup>RS Board of Directors Meeting on February 09, 2008  
Governor's Inn, Sacramento, CA

**Meeting called to order at 10:35 am**

Present: Kent E. Boots, Chair; Paul Arnold, Board Member; Jahna Beard, Board Member; Jincy Pace, CAARS Liaison to ACTAR; Karen Haverkamp, Treasurer; Chris Kauderer, Vice-Chair (arrived later in the morning for the meeting – Karen given his proxy until his arrival) Dave Willat, Board Member (arrived after lunch for the meeting.)  
Absent: Kevin Cassidy, Membership; Jennifer Colunga, Newsletter Editor; Joel Salinas, Board Member/Training Coordinator; Paul Wade, Board Member.

**OLD BUSINESS:**

- Kent submits board meeting minutes from September 15<sup>th</sup>, 2007 for approval.

**MOTION: Paul Arnold makes a motion to accept the board meeting minutes. Karen Haverkamp seconds the motion.**

**VOTE: Motion carried unanimously.**

- A. Read Votes into record

**MOTION: Email vote results for selection of the new CAARS Liaison to ACTAR.**

**VOTE: Jincy Pace was elected by the majority of votes to this position.**

- A. Discussion regarding the typing of meeting minutes, options, procedure and reimbursement

**(Brief Break) Meeting resumes: 10:04am with Chris Kauderer in attendance.**

**MOTION: Motion by Chris Kauderer that someone be compensated at a rate of \$22.50 for each hour of meeting time to type up the board meeting minutes. Jahna Beard seconds the motion.**

**VOTE: Motion carried unanimously.**

- Discussion regarding the Final Report on the 2007 Conference, 106 attendees, 120 notebooks printed, CDs of presentations and handout materials given to most attendees at the conference; the rest were mailed.
- Welcome to Jincy Pace as the CAARS Liaison to ACTAR; discussion about the CAARS board's expectations, discussion regarding the status of ACTAR CEUs

**(BREAK FOR LUNCH) (BACK ON THE RECORD 2:15)** Chris Kauderer has left for the day. Dave Willat is now present for the meeting. Still have a quorum.

- Discussion about the 2008 Cruise

**MOTION: Paul Arnold makes a motion to refund \$475.00 to the speaker. (He was charged for his spouse's passage) Jahna Beard seconds the motion.**

**VOTE: Motion Carried unanimously**

- A. Discussion regarding the Policy Manual and assignments

**OFFICER REPORTS:**

- Chair: discussion regarding our Federal Tax Exempt status and State Tax Exempt status, discussion about setting up a Yahoo Group for CAARS
- Treasurer's Report: discussion about buying QuickBooks software for the new treasurer, discussion regarding filing of 2007 taxes, discussion regarding transition to the new treasurer
- Membership: 268 current members, 91 who have not renewed from 2007

**NEW BUSINESS:**

- Discussion about the training log (hard copies handed out), discussion about the 2008 quarterly training topics, discussion about the 2008 Conference Topics & Location

**CLOSE MEETING:**

**MOTION: Paul makes motion to adjourn meeting. Jahna Beard seconds the motion.**

**VOTE: Motion Carried Unanimously.**

**MEETING ADJOURNED**

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