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1	Thank you.		
2	THE COURT: Thank you.		
3	MR. WARBURTON: Your Honor, if we can		
4	release Agent Farren from the subpoena?		
5	MR. ROOSE: Sure.		
6	THE COURT: Agent Farren's released from		
7	her subpoena, the record will reflect, without		
8	objection.		
9	(The witness left the witness stand.)		
0	MR. WARBURTON: Next the State calls		
1	Mr. Paul Glover, Your Honor.		
.2			
.3	THEREUPON,		
4	PAUL L. GLOVER,		
5	having been called as a witness and having been duly		
6	sworn, was examined and testified as follows:		
7			
8			
9	DIRECT EXAMINATION		
0	BY MR. WARBURTON:		
1	Q. Sir, state your name for the record, please.		
2	A. My name is Paul L. Glover.		
3	Q. And what is your current occupation, sir?		
4	A. I'm the branch head and research scientist for		
5	the Forensic Tests for Alcohol which is a branch of the		
-	1		

Department of Health and Human Services.

Q. And could you just briefly tell the jury what your function is there?

A. As a branch head, I am responsible for the overall operation of our branch. Our responsibilities are to train law enforcement officers on the evidentiary breath test instruments that we use in this state. We also maintain all of the instruments that are used in the state. We have other training programs that deal with drug recognition experts, standardized field sobriety testing, and alcohol screening device training.

I also evaluate applicants who would like to get a permit to analyze blood for the presence of drugs and alcohol. That would be at this point SBI agents and Charlotte/Mecklenburg crime lab individuals. I review their applications, review their procedures, and determine whether or not they'll be issued a permit.

I also -- as a research scientist for the branch, I do in-service training for my staff. I've got 28 people in the branch. And I'll go over issues related to breath testing for alcohol, blood testing for alcohol, blood testing for drugs, urine testing for drugs. Evaluate the instrumentations used for those different purposes.

Q. And what is your education history?

- 1 Α. I have a BS in biology that I got at Florida State University in 1974, a masters in biology that I 2 3 got at Florida State University in 1978. And what kind of experience -- work experience 4 5 have you had, sir, over the years? 6 Α. Experience in court? No, work experience over the years. Ο. 8 Α. Oh, work experience? I'm sorry, I can't hear 9 you. Yeah, I'm sorry. What kind of work experience 10 do you have? 11 12 Α. I was a research scientist at Oak Ridge 13 National Laboratory for seven years in Oak Ridge, Tennessee: a research scientist at the National 14 15 Institutes of Environmental Health Sciences in Research 16 Triangle Park for five years; and a research scientist 17 at Burroughs-Welcome Pharmaceutical in Research Triangle 18 Park for seven years.
 - Q. And how long have you been at your current position, sir?
 - A. I've been a branch head for over two years.

 I've been with the branch for just under 12 years.
 - Q. And what membership or professional societies do you belong to, sir?
 - A. I'm a member of the International Council on

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Alcohol, Drugs, and Traffic Safety. I'm a member of the
International Association for Chemical Testing where I
was on the Board of Directors for four years up until
about a year ago.

- Q. And have you testified before in this area of -- of your function?
 - A. Yes, I have.
 - Q. Okay. Do you recall how many times?
- A. I've been tendered and qualified between 230 and 240 times in the past 11 years.
- Q. And have you written any publications, sir, related to this area?
 - A. Yes. I did a study on the effects of interfering substances on breath tests conducted on the Intoxilyzer 5000. It was submitted for presentation for a conference in Stockholm, Sweden, in 2000. I did the presentation there and then the -- the paper was published as part of their proceedings.

I also did a study on the effects of heat on blood samples containing alcohol which was submitted for presentation in Montreal in 2002, and it was published as part of their proceedings.

Q. Thank you, sir.

MR. WARBURTON: Your Honor, at this time the State would tender -- ask Mr. Glover be tendered as

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1
     an expert in blood alcohol testing and blood alcohol
 2
     physiology, pharmacology, and related research.
 3
                   THE COURT: Okay, wait one second.
 4
                   MR. WARBURTON: Yes, sir.
 5
                   THE COURT: Blood?
 6
                   MR. WARBURTON: Blood alcohol testing.
 7
                   THE COURT: Testing. Okay.
 8
                   MR. WARBURTON: Blood alcohol physiology.
 9
                   THE COURT: Okay.
10
                   MR. WARBURTON: And pharmacology, which is
11
     p-h-a-r-m-a-c-o-l-o-g-y, and related research to those
12
     fields.
13
                   THE COURT: I went to Randleman High
14
     School. I know how to spell pharmacology.
15
                   MR. WARBURTON: Well, I had it --
16
      (inaudible). (Laughing.)
17
                   THE COURT: Mr. Roose? As to the tender?
18
                   MR. ROOSE: Oh, oh, oh. I thought you
19
     were asking how to spell that. I didn't know exactly.
20
     Thank you. I don't have any objection to the tender.
21
     I'm sorry.
22
                   THE COURT: Thank you. All right.
     the record reflect that the witness has been tendered as
23
24
     an expert in the field of blood alcohol testing, blood
25
     alcohol physiology, and blood alcohol pharmacology. And
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without objection, he will be received as an expert in those fields.

Members of the jury, I will call your attention to the instructions you've received now twice -- I will not go over them again -- about the testimony of expert witnesses. Go ahead, please.

MR. WARBURTON: Yes, sir.

- Q. BY MR. WARBURTON: Sir, did you receive a request to review a case -- this case out of Randolph County?
 - A. Yes, I did.
 - Q. And what was the request?
- A. The request was that I look at this case with respect to the blood alcohol concentration and what that concentration might have been at the time of the crash.
 - Q. Now, why would that possibly be different?
- A. Because there was a significant time lapse between the time of the crash and the time of the blood collection.
- Q. And did you receive some information -- strike that. What did you look at to -- to make this determination?
- A. I looked at the time of the crash. In -- in order to do a retrograde, I do need a window of time.

 That window of time would have been starting at the time

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of the crash, which I was given as being 2138, and then the time of the blood collection which was 0044.

- Q. Now, what do you mean "retrograde"? What does -- what does that word mean?
- A. Well, retrograde extrapolation is a term that describes the process of taking a result -- a breath or blood result that's measured or collected at one point in time, going back to an earlier point in time and calculating what the concentration would have been at that time.
- Q. So between the collision to the time that the blood was taken, how much time had transpired?
- A. Three hours and six minutes, based on the information I was provided.
 - Q. And what else do you look at, too, then?
- A. I look at that time and then I use an average value for the rate of elimination of alcohol from humans. Elimination of alcohol from humans has been studied for over 70 years. We see an average value that is used that is reliable with respect to the rate that an individual loses alcohol, and it's a value that we've used for about 25 years here in North Carolina.
- Q. Is that what you mean by "elimination"? What do you mean by "elimination"?
 - A. Elimination rate. That is how much does an

alcohol concentration go down for each hour that passes.

So we -- that rate is a value that we use. We multiply

that rate times the elapsed time. That tells us how

much alcohol was metabolized during that

three-hour-and-six-minute window of time.

When I do that, I get a value of what was lost. That's then added to the measured alcohol concentration of the blood sample that was collected at 12:44.

- Q. And when you say "metabolized," what do you mean by that?
- A. Well, alcohol in humans is eliminated primarily by the liver. About 95 percent of the alcohol that you consume is broken down in the liver by an enzyme called alcohol dehydrogenase. You lose about five percent of alcohol through breath, sweat, and urine, but the rest of it, as I say, is broken down in the liver.

As blood is circulating throughout the body, it's transporting alcohol throughout the body. When blood goes through the liver, it encounters this enzyme. That enzyme will break it down. But that's the way that we metabolize alcohol in humans.

Q. Okay. Now, you -- you did calculations on this -- this particular case. Is that correct?

1	A. That's correct.
2	Q. And what did come back what did you come as
3	a conclusion?
4	A. My conclusion was that at the time of the
5	crash the alcohol concentration would have been a .19.
6	Q. And the original number that you had looked at
7	from the lab was?
8	A. A .14.
9	Q. And that would be the if you could just
10	officially for the record, that would be .19 what?
11	A19 grams of alcohol per 100 milliliters of
12	whole blood.
13	Q. And that would have been at the time of the
14	collision then?
15	A. Yes.
16	MR. WARBURTON: Your Honor, before we
17	proceed to that, may Mr. Roose and I approach?
18	THE COURT: Yes, sir.
19	(Mr. Warburton and Mr. Roose approached
20	the bench and conferred with the Court.)
21	THE COURT: Thank you, gentlemen, for your
22	help. Yes, sir.
23	MR. WARBURTON: That will be all the
24	questions we have at this time, Your Honor.
25	THE COURT: Thank you. Mr. Roose?

1	CROSS-EXAMINATION
2	BY MR. ROOSE:
3	Q. Mr. Glover, when you did you receive the
4	request to review this this case?
5	A. I don't know if I know the exact date. It
6	would have been prior to July 8th of this year. I
7	believe I got a phone call at one point in time, but I
8	don't know right off the top of my head.
9	Q. So it was this year. I mean, some you say
10	July 8th
11	A. To the best of my recollection
12	Q of this year.
13	A yes.
14	Q. So it was that a couple weeks ago then,
15	right? It was not back in '07
16	A. No, it was not.
17	Q around the time of the event or anything.
18	A. No.
19	Q. Okay. And this retrograde extrapolation, this
20	is really fairly simple. You use three things to make
21	this calculation.
22	A. That's correct.
23	Q. You use the time lapse between the crash and
24	drawing of the blood?
25	A. That's correct.

1	Q. The reported result?
2	A. That's correct.
3	Q. And the average elimination rate.
4	A. Yes.
5	Q. Okay. Now, the average elimination rate is
6	where does that come from?
7	A. It's come from a tremendous number of studies
8	that have been done over the past 70 years. We
9	determine rates by dosing individuals with alcohol and
LO	then measuring their alcohol concentration at different
L1	periods of time. From that we calculate their rate of
L2	elimination.
L3	Q. This average is an average of different
L 4	elimination rates?
L5	A. Yes, there is a range. It is a fairly narrow
L 6	range, and this particular rate that we use is a
L7	conservative rate with respect to well, with respect
L8	to drinking drivers.
L 9	Q. Okay. Thank you, Mr. Glover.
20	MR. ROOSE: That's all.
21	
22	
23	REDIRECT EXAMINATION
24	BY MR. WARBURTON:
25	Q. When you mean "conservative rate," is that

1	more more slowly or more quickly eliminates from a
2	person?
3	A. This would be slower than what we typically
4	see in drinking drivers. We've seen we have studies
5	where they've looked at drivers who have been charged
6	with DWI and they've measured their rate of elimination.
7	They stand out as a different population from your
8	average population, and we see a rate that's higher or
9	faster elimination rate in that population.
10	Q. Now, the .19, is that a higher rate or a
11	lesser rate than the .14 when it comes to alcohol?
12	A. Well, the .19 is is a larger amount of
13	alcohol.
14	Q. Than the .14?
15	A. Yes.
16	Q. Thank you.
17	MR. WARBURTON: That's all.
18	
19	
20	RECROSS-EXAMINATION
21	BY MR. ROOSE:
22	Q. It's still an average rate you're using to
23	make this calculation.
24	A. It it is an average rate; but, again, it is

a -- it's -- it's a slower rate than we would expect to

25

1 see in a drinking driver. Well, if it's slower, it's not average, I 2 Q. 3 quess. It's an average rate for the general 4 Α. 5 population. When we start looking at individuals with 6 respect to their experience with alcohol, this is a very 7 good number. When we've looked at people with greater 8 experience, we see a higher number, and the greater -- I 9 mean, if we get into chronic abusers, we can see rates 10 that are two and three times this -- the rate that we 11 use. 12 And you have no information at all about the 13 defendant's experience with alcohol. 14 Α. No, I do not. 15 Q. Thank you. 16 MR. ROOSE: That's all. 17 MR. WARBURTON: Thank you, sir. That's 18 all. 19 Thank you, sir. You may step THE COURT: 20 down. 21 (The witness left the witness stand.) 22 THE COURT: Mr. Warburton? 23 MR. WARBURTON: Yes, sir. 24 THE COURT: Are you asking Mr. Glover 25 remain?

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1
                    MR. WARBURTON: Mr. Glover, if you'd just
 2
     remain here. Yes, sir.
 3
                    THE COURT: Thank you.
 4
                    MR. WARBURTON:
                                   The next person, Your
 5
     Honor, the State is calling would be Trooper Brian
 6
     Palmiter, Your Honor.
 7
                    THE COURT: Thank you.
 8
 9
     THEREUPON,
10
           BRIAN PALMITER,
     having been called as a witness and having been duly
11
12
     sworn, was examined and testified as follows:
13
14
15
                         DIRECT EXAMINATION
16
     BY MR. WARBURTON:
17
                State your -- I'm sorry. Are you all set?
           Q.
18
           Α.
                Yes, sir.
19
                Would you state your name for the record,
           Ο.
20
     please.
21
           Α.
                My name is Brian Palmiter.
22
                And who are you currently employed with, sir?
           Q.
23
           Α.
                The North Carolina Highway Patrol.
24
                And what -- what division or what area are you
           0.
25
      in with the Patrol?
```

THE COURT: Let me -- first of all, I want to thank Madam Reporter. She brought something to my attention and I -- she was absolutely correct in doing it.

Guys, as we began the trial, of course

Mr. Roose had a motion for complete recordation which

was allowed, and we've held a bench conference. And we

need to -- first of all, I need to reconstruct the bench

conference, but we need to decide if the complete

recordation -- we did not make any exception for bench

conferences, but we need to decide if we're gonna do

that or not. I don't know how many more we might be

called to hold, but -- yes, sir.

MR. ROOSE: And -- and I'll address that because I thought we'd done this before. I do not request bench conferences. If what's -- goes on needs to be recorded, I will affirmatively request recordation of that; but otherwise, that would be the way I would like to proceed here.

THE COURT: All right. Let the record reflect that the motion for complete recordation has now been modified to allow the Court to exclude recordation of bench conferences unless the defendant through counsel affirmatively -- affirmatively requests that bench conferences be recorded or reconstructed on the

record.

As this motion and order of the Court is entered following the first bench conference, the Court places in the record and will request that either Mr. Roose or Mr. Warburton correct or object the Court if they disagree with the Court's recollection.

The bench conference that was held concerned testimony that the State might possibly seek to elicit from Mr. Paul Glover concerning the possibility that a person would have a blood alcohol content level of 19 at the time of the accident while only consuming five beers as either reported by the defendant or some previous -- previous evidence was placed in the record of the -- of the amount of alcohol consumed by the defendant.

The matter was discussed at the bench.

Defendant, through counsel, informed the Court that he had no prior notice that this evidence was to be elicited from the expert and informed the Court that he planned to object, or at a minimum conduct a voir dire to determine what the evidence would be and then determine whether or not he would object.

The Court then suggested that this -- this matter might be addressed after the morning break, and the district attorney agreed with that suggestion, and

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the matter has not been offered into evidence. I don't
1
 2
     see Mr. Glover in the testimony [sic], Mr. DA, so I
 3
     assume you're not gonna offer that evidence.
                    MR. WARBURTON: We would hold him as -- in
 4
 5
     case of rebuttal if they're required.
 6
                    THE COURT: Thank you, sir. All right.
 7
     Okay. Does anyone object to the reconstruction of the
 8
     bench conference that was put in the record by the
 9
     Court?
10
                    MR. WARBURTON: No. Not from the State,
     Your Honor.
11
12
                    MR. ROOSE: No, sir.
13
                    THE COURT: Okay, all right. Let the
     record reflect that thus -- that in future for the
14
15
     trial, according to the motion of the defendant and the
16
     order entered by the Court, that bench conferences need
17
     not be recorded except on motion of the defendant.
18
                   All right. Very good. Thank you,
19
                 Are we ready for the jury?
20
                    MR. WARBURTON: Yes, sir.
21
                    THE COURT: Thank you. Yes, sir.
22
                    THE BAILIFF: Yes, sir.
23
                    (The witness returned to the witness
     stand.)
24
25
                    (The jury returned to the courtroom at
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