

1 UNITED STATES DISTRICT COURT
 2 SOUTHERN DISTRICT OF TEXAS
 3 HOUSTON DIVISION

4 WESTERNGECO LLC * 09-CV-1827
 * Houston, Texas
 5 VS. *
 *
 6 ION GEOPHYSICAL * 7:39 a.m.
 CORPORATION, FUGRO *
 7 GEOTEAM, INC., ET AL * July 27, 2012

8 JURY TRIAL

9 Volume 5

10
 11 BEFORE THE HONORABLE KEITH P. ELLISON
 12 UNITED STATES DISTRICT JUDGE

13 APPEARANCES:

14
 15 FOR THE PLAINTIFF:

16 Lee L. Kaplan
 SMYSER, KAPLAN & VESELKA, LLP
 17 700 Louisiana, Suite 2300
 Houston, Texas 77002
 18 713.221.2300

19 Gregg F. LoCascio
 KIRKLAND & ELLIS LLP
 20 655 Fifteenth Street Northwest
 Washington, DC 20005
 21 202.879.5290

22 Sarah Tsou
 23 Timothy K. Gilman
 KIRKLAND & ELLIS LLP
 24 Citigroup Center
 153 East 53rd Street
 25 New York, New York 10022
 212.446.6435

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 ATTEST

Silvia Lopez
 Clerk of Court
 Deputy Clerk

Johnny C. Sanchez, RMR, CRR - jcsreporter@aol.com

1 claims that pertain to your testimony?

2 **A.** Yes, I think it does.

3 MR. LOCASCIO: No further questions, Your
4 Honor.

03:02:32 5 THE COURT: Okay. Anything further?

6 MR. PIERCE: No.

7 THE COURT: Okay. Thank you. You're free to
8 go. Thank you.

9 Do you wish to call another witness?

03:02:39 10 MR. LOCASCIO: We do. At this time,
11 WesternGeco calls Dr. John Leonard. Bring him up.

12 THE COURT: Why don't we take back some of the
13 things we gave the last witness.

14 MR. LOCASCIO: Sure.

03:03:16 15 THE COURT: Yes, sir. If you'd make your way
16 up here.

17 MR. ARNOLD: Are we clear up here?

18 CASE MANAGER: Yes.

19 THE COURT: We're going to have you in the seat
03:03:24 20 nearest me, sir.

21 Before you take your seat, Mrs. Loewe will
22 administer the oath.

23 THE CASE MANAGER: Do you solemnly swear that
24 the testimony you are about to give in the matter now
03:03:30 25 before the Court will be the truth, the whole truth and

1 nothing but the truth?

2 THE WITNESS: I do.

3 THE COURT: Have you been in the courtroom for
4 a while.

03:03:40 5 THE WITNESS: Yes.

6 THE COURT: You know the drill, then. Okay.
7 Try to speak into the mike.

8 MR. GILMAN: I know it's late in the day, so
9 I'll try to move quickly, Your Honor.

03:03:49 10 THE COURT: Thank you.

11 MR. GILMAN: For its next witness, WesternGeco
12 calls Dr. John Leonard, who is a professor at MIT.
13 Dr. Leonard is a specialist in navigation and robotics,
14 with an emphasis on underwater vehicles. We heard a little
03:04:06 15 bit with the last two witnesses how some of the defendant's
16 products work.

17 Dr. Leonard is here to talk about the
18 source code that's used, the computer programs that are
19 used inside of that -- those product and what information
03:04:17 20 is being passed back and forth in those products.

21 Permission to approach the witness.

22 THE COURT: Yes. You don't need to ask
23 permission.

24

25

Johnny C. Sanchez, RMR, CRR - jscourtreporter@aol.com

Direct-Leonard/By Mr. Gilman

1 **JOHN LEONARD,**
2 after having been first cautioned and duly sworn, testified
3 as follows:

4 **DIRECT EXAMINATION**

03:03:46 5 BY MR. GILMAN:

6 **Q.** Good afternoon, Dr. Leonard.

7 **A.** Good afternoon.

8 **Q.** Would you please introduce yourself to the jury.

9 **A.** My name's John Leonard, and I'm a professor at MIT.

03:05:03 10 **Q.** What do you do at MIT?

11 **A.** I perform research in robotics, and I teach
12 mechanical engineering.

13 **Q.** What kind of education do you have to get to where
14 you are today?

03:05:11 15 **A.** Undergraduate degree is in electrical engineering
16 from the University of Pennsylvania, and my Ph.D. is from
17 the University of Oxford.

18 **Q.** What did you study in both of those schools?

19 **A.** So electrical engineering as an undergrad, and then I
03:05:25 20 focused in robotics, and my Ph.D. is in engineering
21 science from Oxford.

22 **Q.** What was the topic of your thesis for your Ph.D.
23 studies?

24 **A.** I worked on the problem of how a robot can build a
03:05:38 25 map and concurrently use that map to navigate. And so,

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Direct-Leonard/By Mr. Gilman

1 that involved a lot of advanced work in source code and
2 Kalman filtering and a lot of the algorithms related to
3 that.

03:05:54

4 **Q.** So if we could take a look at your -- some of the
5 slides that you put together.

6 Starting off with your first slide,
7 Leonard 1, could you describe what it is that you do today
8 at MIT, what areas do you focus your research on?

03:06:11

9 **A.** Yeah. This is a slide I give in talks to give sort
10 after quick overview in the interests of time of some of
11 my background. So the topics and pictures from underwater
12 vehicle vehicles, the Arctic, worked on mine-hunting for
13 the Navy, and also as the team leader for MIT's entry in
14 something called the DARPA Urban Challenge, which is -- we
15 built a self-driving car and drove it in traffic. And so,
16 my research generally addresses these problems of mapping,
17 navigation and control of autonomous vehicles, with a
18 special focus on underwater vehicles.

03:06:25

19 THE COURT: At MIT, are you in a research
20 position, or do you also have teaching responsibilities?

03:06:41

21 THE WITNESS: Yes. I'm a faculty member, so I
22 have teaching responsibilities.

23 THE COURT: Are you an assistant professor or
24 an associate?

03:06:48

25 THE WITNESS: I'm a full professor.

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