

MISSOURI CIRCUIT COURT
TWENTY-FIRST JUDICIAL CIRCUIT
ST. LOUIS COUNTY

EDWARD COLELLA,)
Plaintiff,)
vs.) Cause No. 09SL-CC01972
MONSANTO CO., ET AL.,) Division No. 7
Defendants.) NOTICE OF DEPOSITION

MISSOURI CIRCUIT COURT
TWENTY-FIRST JUDICIAL CIRCUIT
ST. LOUIS COUNTY

LIVINGSTON HAMPTON, MAGGIE)
MOOYMAN, and RUSSELL ABBER,)
Plaintiffs,)
vs.) Cause No. 10SL-CC03428
MONSANTO CO., ET AL.,) Division 17
Defendants.)

MISSOURI CIRCUIT COURT
TWENTY-FIRST JUDICIAL CIRCUIT
ST. LOUIS COUNTY

NISHIDA, NICHOLAS WHITE,)
INDIVIDUALLY AND AS SURVIVOR)
OF MARK WHITE, DECEASED,)
AND ALISON TUCKER,)
Plaintiffs,)
vs.) Cause No. 09SL-CC01964
MONSANTO CO., ET AL.,) Division No. 13
Defendants.) NOTICE OF DEPOSITION

1 INDEX OF EXAMINATION
2
3 WITNESS: DR. ROBERT KALEY
4 Examination By Mr. Stewart7
5 Examination By Mr. Miller47
6
7

8 INDEX OF EXHIBITS
9 Plaintiffs Exhibit 329
10 U.S. Domestic Sales of PCBs by
11 Category
12 Plaintiffs Exhibit 339
13 U.S. Domestic Sales of PCBs by Grade
14 Defendants Exhibit 3447
15 September 1937 Document from The
16 Journal of Industrial Hygiene and
17 Toxicology Regarding The Problem of
18 Possible Systemic Effects From
19 Certain Chlorinated Hydrocarbons
20 The original Plaintiffs' Exhibits 32 and 33 were
21 retained by the court reporter to be attached to
22 Mr. Stewart's transcript.
23 The original Defendants' Exhibit 34 was retained by
24 the court reporter to be attached to Mr. Miller's
25 transcript.

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF MISSOURI

LIVINGSTON HAMPTON, MAGGIE)
MOOYMAN, and RUSSELL ABBER,)
Plaintiffs,)
vs.) Cause No. 4-11-CV-01662
MONSANTO CO., SOLUTIA, INC.,)
PHARMACIA CORP., AND PFIZER,)
INC.,)
Defendants.)

THE VIDEOTAPED DEPOSITION OF DR. ROBERT KALEY
CORPORATE REPRESENTATIVE OF MONSANTO COMPANY
VOLUME II

Taken on behalf of Plaintiffs
November 18, 2011

Dawn M. Bloemker, CSR, CCR, RPR
CSR License No. 084-004554
CCR License No. 1039

1 MISSOURI CIRCUIT COURT
2 TWENTY-FIRST JUDICIAL CIRCUIT
3 ST. LOUIS COUNTY
4 EDWARD COLELLA,)
5 Plaintiff,)
6 vs.) Cause No. 09SL-CC01972
7) Division No. 7
8 MONSANTO CO., ET AL.,)
9) NOTICE OF DEPOSITION
10 Defendants.)
11
12 MISSOURI CIRCUIT COURT
13 TWENTY-FIRST JUDICIAL CIRCUIT
14 ST. LOUIS COUNTY
15 LIVINGSTON HAMPTON, MAGGIE)
16 MOOYMAN, and RUSSELL ABBER,)
17 Plaintiffs,)
18 vs.) Cause No. 10SL-CC03428
19) Division 17
20 MONSANTO CO., ET AL.,)
21 Defendants.)
22
23 MISSOURI CIRCUIT COURT
24 TWENTY-FIRST JUDICIAL CIRCUIT
25 ST. LOUIS COUNTY
26 NISHIDA, NICHOLAS WHITE,)
27 INDIVIDUALLY AND AS SURVIVOR)
28 OF MARK WHITE, DECEASED,)
29 AND ALISON TUCKER,)
30 Plaintiffs,)
31 vs.) Cause No. 09SL-CC01964
32) Division No. 13
33 MONSANTO CO., ET AL.,)
34) NOTICE OF DEPOSITION
35 Defendants.)

5 1 IN THE UNITED STATES DISTRICT COURT 2 FOR THE EASTERN DISTRICT OF MISSOURI 3 LIVINGSTON HAMPTON, MAGGIE) 4 MOOYMAN, and RUSSELL ABBER,) 5) 6 Plaintiffs,) 7) 8 vs.) Cause No. 4-11-CV-01662 9) 10 MONSANTO CO., SOLUTIA, INC.,) 11 PHARMACIA CORP., AND PFIZER,) 12 INC.,) 13) 14 Defendants.) 15 THE VIDEOTAPED DEPOSITION OF DR. ROBERT 16 KALEY, VOLUME II, produced, sworn, and examined on 17 behalf of the Plaintiffs, November 18, 2011, between 18 the hours of 9:00 a.m. and 10:20 a.m. on that day, at 19 the law offices of Husch Blackwell, LLP, 20 190 Carondelet Plaza, Suite 600, St. Louis, Missouri 21 63105, before Dawn M. Bloemker, Illinois Certified 22 Shorthand Reporter, Missouri Certified Court Reporter, 23 and Registered Professional Reporter. 24 APPEARANCES 25 The Plaintiffs, Edward Colella, et al., were represented by Mr. Allen M. Stewart of the law firm of Allen Stewart, P.C., 325 N. St. Paul Street, Suite 2750, Dallas, Texas 75201. The Defendants, were represented by Mr. Adam E. Miller of the law firm of Husch Blackwell, LLP, 190 Carondelet Plaza, Suite 600, St. Louis, Missouri 63105. The Defendants were also represented by Ms. Carol A. Rutter of the law firm of Husch Blackwell, LLP, 190 Carondelet Plaza, Suite 600, St. Louis, Missouri 63105. Also Present: Mr. Mike Tisa, Videographer representing U.S. Legal Support, Inc., 5910 N. Central Expressway, Suite 100, Dallas, Texas 75206.	7 1 reporter please remind the witness he is still under 2 oath. 3 * * * * * 4 DR. ROBERT KALEY, 5 of lawful age, being produced, sworn, and examined on 6 the part of the Plaintiffs, and after responding "Yes" 7 to the oath administered by the court reporter, 8 deposes and says: 9 * * * 10 EXAMINATION 11 BY MR. STEWART 12 Q. Sir, when you retired from Monsanto in the 13 year 2003, how much were you making a month? 14 A. I don't recall. 15 Q. Can you give us your best estimate? 16 MR. MILLER: I'm sorry. Did you say 17 Monsanto or Solutia? 18 THE WITNESS: Oh. 19 MR. STEWART: I said Monsanto. 20 A. Oh, I didn't retire from Monsanto. 21 Q. (By Mr. Stewart) Okay. When you retired 22 from a Monsanto-related entity, Solutia, in the 23 year 2003, how much were you making approximately from 24 them? 25 A. Probably, I would say 13 or \$14,000 a month.
6 1 IT IS STIPULATED AND AGREED by and between 2 counsel for the Plaintiffs and counsel for the 3 Defendants that the deposition of DR. ROBERT KALEY may 4 be taken in shorthand by Dawn M. Bloemker, a Certified 5 Court Reporter, and afterwards transcribed into 6 typewriting, and the signature of the witness is 7 reserved by agreement of counsel and the witness. 8 * * * * * 9 THE VIDEOGRAPHER: We are on the record at 10 9:00 a.m. This is the videotaped deposition, 11 Volume II, of Robert Kaley in the matter of Edward 12 Colella vs. Monsanto Company, Nishida White vs. 13 Monsanto Company, et al., and Livingston Hampton, et 14 al., vs. Monsanto Company. The Cause Nos. 15 09SL-CC01972, 09SL-CC01964, and 10SL-CC03428. 16 This deposition is being held at Husch, 17 Blackwell, Sanders in St. Louis, Missouri. 18 Will counsel please state their name for the 19 record. 20 MR. STEWART: Al Stewart for the plaintiffs. 21 MR. MILLER: Adam Miller on behalf of 22 defendants. 23 MS. RUTTER: Carol Rutter on behalf of 24 defendants. 25 THE VIDEOGRAPHER: And will the court	8 1 Q. And when you worked for that 2 Monsanto-related entity in the year 2003, were you 3 working full time? 4 A. Yes. 5 Q. And what did that mean in terms of hours per 6 week? 7 A. Typically, 40 or more. 8 Q. And so when you became a consultant 9 immediately after retiring from Monsanto-related 10 entity on Monsanto-related matters, you essentially 11 kept making the same amount of money; true? 12 A. Approximately, yes. 13 Q. And yet you worked half as much; right? 14 A. Sometimes. Sometimes more. 15 Q. Hmm. I thought you told me that on average 16 you worked 20 to 25 hours a week? 17 A. Roughly. Yes. 18 Q. Isn't that roughly half of what you used to 19 work? 20 A. Or more. 25 is more than half. 21 Q. Hmm. So isn't it true, sir, that by 22 becoming a consultant for Monsanto-related entities, 23 you essentially got to make the same amount of money 24 or more and work a lot less? 25 A. I assume that's true, yes.

9 1 Q. Now, in connection with a couple of the 2 exhibits we looked at previously, Kaley Exhibit 5 and 3 Kaley Exhibit 10, there were some charts that you had 4 referenced in those documents, and they were a little 5 difficult to read. Have you brought us now those 6 charts that are more refined, easier to read? 7 A. I have. 8 Q. Okay. Let's mark those as the next 9 exhibits. 10 (Plaintiffs Exhibits 32 and 33 were 11 marked for identification.) 12 Q. (By Mr. Stewart) So these charts have been 13 marked Kaley 32 and Kaley 33 to this deposition, and 14 these are the same charts that are taken out of 15 Exhibit 5 and Exhibit 10; is that true? 16 A. That's true. 17 Q. Okay. Previously when we broke, we were 18 talking about Monsanto's internal standards of 19 conduct; correct? 20 A. As I recall, that's correct. Yes, sir. 21 Q. And I want to know, sir, does Monsanto 22 agree -- strike that. 23 During the 1930s, the 1940s, the 1950s, the 24 1960s, did Monsanto agree that chemical products must 25 be tested thoroughly, marketed responsibly, and	11 1 MR. MILLER: Object to the form. 2 A. I don't -- would you define what you mean by 3 "ultimate"? 4 Q. (By Mr. Stewart) Sure. During the 1930s, 5 the 1940s, the 1950s, the 1960s, and the 1970s, did 6 Monsanto agree that a chemical maker must take primary 7 responsibility for the products they sell, whatever 8 those products do, and wherever those products end up? 9 MR. MILLER: Object to the form. 10 A. I'm not sure that was a concept that was 11 understood or considered during the earlier parts of 12 those time frames. 13 Q. (By Mr. Stewart) What do you mean by the 14 earlier parts of those time frames? 15 A. Probably before the 1960s. 16 Q. Hmm. So are you telling me that Monsanto in 17 the 1960s did not agree that a chemical maker must 18 take primary responsibility for the products it sold? 19 MR. MILLER: Object to the form of the 20 question. Calls for potentially a legal conclusion 21 with respect to the term "responsibility." 22 Subject to that, you can answer, Doctor. 23 A. I think they began to develop those kinds of 24 understandings around all of their products during 25 that time frame depending on the use patterns and what
10 1 applied discriminately? 2 A. I believe that would be an applicable 3 concept, yes. Within the constraints of what was 4 acceptable and considered appropriate at the time. 5 Q. And did Monsanto agree in the 1930s, the 6 1940s, the 1950s, the 1960s, and the 1970s that 7 Monsanto's PCBs should have been tested thoroughly 8 before they were sold to the public? 9 A. I'd say I believe they were tested in a 10 manner -- they should be tested in manners appropriate 11 for the understanding of appropriate testing during 12 those time frames, yes. 13 Q. And did Monsanto agree that during the 14 entire time Monsanto made PCBs that those PCBs should 15 have been marketed in such a way that the PCBs would 16 be applied discriminately? 17 A. Yes. I believe they believed that within 18 the constraints and the understandings of those time 19 periods. 20 Q. And did Monsanto agree that a chemical maker 21 during that period of time, the 1930s, the '40s, the 22 '50s, the '60s, the '70s, did Monsanto agree that a 23 chemical maker must take ultimate responsibility for 24 the products it sells, whatever those products do and 25 wherever those products end up?	12 1 they understood about the products and their potential 2 ultimate dispensation and after -- during and after 3 use. 4 Q. (By Mr. Stewart) You would agree with me 5 that in the 1930s Monsanto was the sole producer of 6 PCBs in the United States; true? 7 A. Yes. 8 Q. And in the 1940s, Monsanto was the sole 9 producer of PCBs in the United States; true? 10 A. Yes. As far as I know. 11 Q. And in the 1950s, Monsanto was the sole 12 producer of PCBs in the United States; correct? 13 A. Yes. 14 Q. And in the 1970s, Monsanto was the sole 15 producer of PCBs in the United States; correct? 16 A. In the '70s? I'm sorry. No. 17 Q. In the 1970s, that's not true? 18 A. That's my understanding. 19 Q. Who else produced PCBs in the United States 20 in the 1970s? 21 A. My understanding was there was a small 22 producer in Texas that tried to pick up some of the 23 slack after Monsanto announced it was going out of 24 business. 25 Q. Who was that?

13 1 A. I believe the name was Jimmy Vandustries 2 (phonetic). 3 Q. Does Monsanto agree with the statement that 4 99 percent of all the PCBs used in the United States 5 were Monsanto's PCBs? 6 MR. MILLER: Object to the form of the 7 question. It's outside the scope of your notice. 8 Subject to that, if you know, you can 9 answer. 10 A. I don't know. 11 Q. (By Mr. Stewart) So you don't know if 12 Monsanto agrees with that or not? 13 A. That's correct. 14 Q. So are you here to tell us that in the 1930s 15 Monsanto did not agree that it should take primary 16 responsibility for the PCBs it sold? 17 MR. MILLER: Object to the form. Same 18 objections. 19 A. Within the constructs or the constraints of 20 the understanding of industrial chemicals in that time 21 frame, yes, I think they understood that. 22 Q. (By Mr. Stewart) And in the 1940s, did 23 Monsanto agree that it should take primary 24 responsibility for the PCBs it sold? 25 MR. MILLER: Object to the form of the	15 1 MR. MILLER: Object to the form of the 2 question. 3 A. Within the constraints of what was 4 understood by primary responsibility or whatever, 5 however you're interpreting it now, I believe they did 6 believe that, yes -- 7 Q. (By Mr. Miller) All right. 8 A. -- within the constraints of the time frame. 9 Q. And in the 1940s, should Monsanto have taken 10 primary responsibility for the PCBs that it sold? 11 MR. MILLER: Object to the form of the 12 question. 13 A. Within the constraints of the understandings 14 during that time frame, yes. I believe they should 15 have. 16 Q. (By Mr. Stewart) And in the 1950s, should 17 Monsanto have taken primary responsibility for the 18 products it sold? 19 MR. MILLER: I'm going to object to the form 20 of the question. When you say take responsibility for 21 the product, can you define what that means because I 22 don't understand it, and I think all of these 23 questions are vague. 24 But subject to that, if you understand it, 25 Dr. Kaley, go ahead and answer it.
14 1 question. 2 A. In the constraints of the understanding of 3 whatever would have been that, by primary 4 responsibility in the 1940s, I think they understood 5 that, yes. 6 Q. (By Mr. Stewart) Why do you keep putting 7 that proviso in there, "within the time constraints 8 of," and then you give a little speech? 9 A. Because a lot of what is considered today is 10 what I would assume, and I really don't know what you 11 mean by primary responsibility or concepts that have 12 developed in the 1970s and the 1980s and the 1990s. 13 Q. Negligence laws existed in the 1930s, didn't 14 they? 15 A. I don't -- I have no idea. 16 MR. MILLER: Object to the form of the 17 question. Exceeds the scope of the deposition notice, 18 and it calls for a legal conclusion. It calls for 19 speculation, and there's no foundation of this 20 witness. 21 Q. (By Mr. Stewart) Sir, as part of Monsanto's 22 standards of conduct in the 1930s, would you agree 23 with me that Monsanto should have been taking primary 24 responsibility for the PCBs it sold in the 1930s? 25 A. Within the --	16 1 Q. (By Mr. Stewart) Is it confusing you, 2 Dr. Kaley? 3 A. Well, I'm trying to make it clear that I do 4 not necessarily understand what you mean by "primary 5 responsibility" or what was understood by the "term 6 primary responsibility" in those time frames, but I 7 believe that Monsanto during those time frames 8 undertook to be a responsible corporation within the 9 understanding of how responsible corporations behaved 10 during those time frames. 11 Q. Hmm. Did Monsanto test its PCBs in the 12 1930s to see if they could cause cancer in animals? 13 A. I'm not aware that they did. 14 Q. Isn't it true that they could have? 15 MR. MILLER: Object to the form. It could 16 have -- could have caused cancer in animals or 17 Monsanto was capable of doing the testing or the 18 testing was capable of finding cancers? I'm not sure 19 I understand your question. I object to it as vague. 20 MR. STEWART: So why don't you just object 21 as vague as opposed to giving that long speech? 22 MR. MILLER: I'm not going to debate my -- 23 my objections. 24 MR. STEWART: That's your way of coaching 25 the witness; right?

17 1 MR. MILLER: No, it's not. It's my way of 2 maybe helping you define what it is that you want to 3 ask in a way that results in an answer that is 4 responsive as opposed to a question that's vague and 5 ambiguous in response that no one can discern what 6 it's responding to. 7 MR. STEWART: Oh, okay. 8 Q. (By Mr. Stewart) It's true, isn't it, sir, 9 that in 1930s Monsanto could have tested to see if 10 PCBs cause cancer in animals; right? 11 MR. MILLER: Object to the form. It exceeds 12 the scope of your deposition notice. 13 A. There were tests available, primitive kinds 14 of tests available, that were used to test chemicals 15 that had been shown to cause cancer in ani- -- in 16 humans -- excuse me -- in humans, and those tests were 17 available. But they were triggered by the fact that 18 those chemicals that were being tested were, in fact, 19 causing cancer in humans. 20 Q. (By Mr. Stewart) So you're saying that in 21 the 1930s, the only chemicals that were tested to see 22 if they cause cancer in animals were chemicals that 23 had already been shown to cause cancer in people? 24 A. Either that or already closely related 25 chemicals is my understanding, yes.	19 1 PCBs were toxic to people and could harm them in the 2 1930s, Monsanto could have tested PCBs to see if they 3 cause cancer in animals; true? 4 MR. MILLER: Object to the form. 5 A. The kinds of toxicities that were being 6 observed were not related to cancer in that time 7 frame. 8 MR. STEWART: I'll object to the 9 responsiveness of the answer. 10 Q. (By Mr. Stewart) I asked you, sir, Monsanto 11 could have tested PCBs to determine if they were 12 cancerous in animals in the 1930s; correct? 13 MR. MILLER: Object to the form. Asked and 14 answered. 15 A. I believe I already answered that that is 16 correct assuming they would have had a reason to do 17 those tests. 18 Q. (By Mr. Stewart) Well, Monsanto chose not to 19 do those tests in the 1930s; correct? 20 MR. MILLER: Object to the form. 21 A. I don't believe it was a conscious decision 22 not to do those tests. I believe there was no 23 indication that they should do those tests. 24 Q. (By Mr. Stewart) What was the indication 25 that they shouldn't do those tests, sir?
18 1 Q. Where did you get that understanding? 2 A. Reading. Looking at available literature on 3 what kinds of tests were done during that time frame. 4 Q. Hmm. So Monsanto could have tested PCBs to 5 determine whether they cause cancer in animals in the 6 1930s; true? 7 A. If they would have had reason to believe 8 that they should do those tests, yes, they could have. 9 Q. Well, they could have done it even if they 10 didn't have reason to believe it; right? 11 MR. MILLER: Object to the form. 12 A. I -- I suppose that's true, but why would -- 13 I don't understand why Monsanto or any other company 14 would test something if it didn't have a reason. 15 Q. (By Mr. Stewart) Well, in the 1930s, 16 Monsanto knew that PCBs were toxic; correct? 17 MR. MILLER: Object to the form. 18 A. They knew there was potential toxicity 19 associated with PCBs, yes. 20 Q. (By Mr. Stewart) And in the 1930s, Monsanto 21 knew that PCBs could harm people; correct? 22 A. There were indications that PCBs and/or 23 related chemicals during that time frame were having 24 affects on humans, yes. 25 Q. Okay. And so with Monsanto knowing that	20 1 MR. MILLER: Object to the form. 2 A. I didn't say there was an indication that 3 they shouldn't. I said there was no indication that 4 they should. 5 Q. (By Mr. Stewart) Well, a responsible 6 chemical company in the 1930s could test its chemicals 7 to determine whether they cause cancer in animals; 8 correct? 9 MR. MILLER: Object to the form. 10 A. I've already answered that those tests were 11 available in some form or another during the 1930s, 12 yes. 13 Q. (By Mr. Stewart) Okay. So the answer is 14 "yes"; right? 15 MR. MILLER: Object to the form. 16 A. The answer is, yes, those tests existed. 17 Q. (By Mr. Stewart) And Monsanto didn't do them 18 with respect to PCBs in the 1930s; correct? 19 A. That's correct. 20 Q. And in the 1940s, Monsanto did not test its 21 PCBs to determine whether it caused cancer in animals; 22 correct? 23 A. That's correct. 24 Q. And in the 1950s, Monsanto didn't test its 25 PCBs to determine if it caused cancer in animals;

21 1 correct? 2 A. That's correct. 3 Q. In the 1960s, Monsanto did not test its 4 chem- -- its PCBs to determine whether they caused 5 cancer in animals; correct? 6 A. No. 7 Q. Okay. When in the 1960s did Monsanto first 8 test its chemicals to determine whether they caused 9 cancer in animals? 10 A. Well, I believe the consideration or the 11 instigator or the institution of those tests began 12 around 1968. 13 Q. Hmm. And is this before or after other 14 people had tested Monsanto's PCBs to determine whether 15 they cause cancer in animals? 16 A. Before. 17 Q. It was before? 18 A. Yes. 19 Q. So Monsanto was the first entity that you're 20 aware of that tested its PCBs to determine whether 21 they cause cancer in animals; is that right? 22 A. Yes. 23 Q. Who conducted those tests? 24 A. A laboratory in Chicago. 25 Q. Who was that?	23 1 legal nature of Mr. -- Dr. Calandra's troubles. 2 But subject to that, you can answer, if you 3 can answer, Dr. Kaley. 4 Q. (By Mr. Stewart) Go ahead. 5 A. He was convicted of something along those 6 lines, yes. 7 Q. Well, you know for a fact, sir, that -- that 8 the federal government found or the federal government 9 accused Dr. Calandra of falsifying test reports for 10 corporations and that he was convicted of putting 11 false information about tests that he did for 12 corporations in the mails; right? 13 MR. MILLER: Object to the form. 14 A. That sounds about right, but it had nothing 15 to do with PCBs. 16 Q. (By Mr. Stewart) So you're saying he was 17 honest about PCBs and dishonest about other things? 18 MR. MILLER: Object to the form of the 19 question. 20 A. I don't have any reason to know that one way 21 or the other. I've never seen any indication that the 22 tests of PCBs were not honest, no. 23 Q. (By Mr. Stewart) Hmm. So he was dishonest 24 with some companies but not dishonest with Monsanto? 25 MR. MILLER: Object to the form of the
22 1 A. Industrial Bio-Test Laboratories. 2 Q. Hmm. Who ran that laboratory? 3 A. I believe the gentleman's name was Joseph 4 Calandra. 5 Q. Didn't Joseph Calandra go to prison? 6 A. Yes. 7 Q. What did he go to prison for, sir? 8 MR. MILLER: Object to the form. 9 A. I believe the charge was illegal use of the 10 U.S. Mails. 11 Q. (By Mr. Stewart) Hmm. 12 A. In fact, I don't think Joseph Calandra 13 actually went to prison. 14 Q. You don't? 15 A. I don't think so. My recollection is that 16 he did not. 17 Q. Hmm. Wasn't he convicted of falsifying test 18 results? 19 A. No. He was convicted of improper use of the 20 U.S. Mail or something similar to that. 21 Q. Oh. Because he was putting false 22 information in test reports in the mail; right? 23 MR. MILLER: Let me object to the form of 24 the questions. It exceeds the scope of your notice 25 and may call for Dr. Kaley to speculate as to the	24 1 question. 2 You can answer if you know. 3 A. I don't know. 4 Q. (By Mr. Stewart) How do you know he wasn't 5 dishonest with Monsanto's data? 6 MR. MILLER: Object to the -- 7 A. I don't. 8 MR. MILLER: Listen, I'll object to the form 9 of the question. 10 Q. (By Mr. Stewart) And a Dr. Paul Wright, he 11 was also convicted of falsifying information at that 12 IBT Laboratory; true? 13 A. Correct. 14 Q. Uh-huh. And he was a former Monsanto 15 employee; right? 16 A. That's correct. 17 Q. Matter of fact, when he was convicted, he 18 was a Monsanto employee; right? 19 A. That's correct. 20 Q. Uh-huh. 21 MR. MILLER: Is that "uh-huh" another 22 question or just a statement you're making for the 23 record? Are you agreeing with the testimony or -- I'm 24 confused about what the "uh-huh" is. 25 MR. STEWART: Why are you doing that?

25 1 MR. MILLER: Because you're including in the 2 record things that are not questions. So I don't 3 think it's appropriate. 4 MR. STEWART: Are you done? 5 MR. MILLER: Yeah. 6 MR. STEWART: Okay. Good. 7 Q. (By Mr. Stewart) So Dr. Paul Wright was a 8 Monsanto employee that left Monsanto to work at IBT, 9 correct? 10 A. Yes. 11 Q. When he worked at IBT, he falsified 12 information; correct? 13 MR. MILLER: Object to the form. Calls for 14 speculation. 15 A. I don't know. 16 Q. (By Mr. Stewart) You think he was wrongfully 17 convicted? 18 MR. MILLER: Object to the form of question. 19 Calls for speculation. 20 A. I don't know -- 21 MR. MILLER: And there's no foundation. 22 Go ahead. 23 A. I don't know the details of the charges or 24 the basis of the conviction. 25 Q. (By Mr. Stewart) So he was indicted for	27 1 determine whether or not PCBs cause cancer in animals; 2 true? 3 A. I believe that's correct. I don't know the 4 exact time frame, but I believe he was there during 5 part of the time at least. 6 Q. Has Monsanto ever found that PCBs cause 7 cancer in animals? 8 A. By their own tests? 9 Q. Yes. 10 A. Not that I'm aware of. 11 Q. Other people have found that PCBs cause 12 cancer in animals; correct? 13 A. Yes. 14 Q. So other people have looked and found that 15 PCBs cause cancer in animals; true? 16 A. Yes. 17 Q. When Monsanto looked to determine whether 18 PCBs cause cancer in animals, they didn't find that; 19 correct? 20 A. That's true. Along with other -- other 21 people outside of Monsanto that looked to see whether 22 PCBs caused cancer in animals and found that they did 23 not cause cancer in animals. 24 Q. Who are those other people? 25 A. There have been a number of studies done
26 1 falsifying tests at IBT; correct? 2 MR. MILLER: Object to the form. No 3 foundation. Lack of -- well, lack of foundation. 4 Calls for speculation. 5 A. Well, I think it goes back to the Calandra 6 discussion. I think he was indicted for improper use 7 of the U.S. Mails. 8 Q. (By Mr. Stewart) And when he was indicted, 9 he was back at Monsanto doing research for Monsanto; 10 true? 11 A. I don't know what his duties were at that 12 time. 13 Q. He was back at Monsanto as a Monsanto 14 employee as a scientist; true? 15 A. Yes. As a toxicologist. 16 Q. And Monsanto paid for his criminal defense; 17 true? 18 A. To my understanding. 19 Q. And he was convicted by a federal jury; 20 correct? 21 A. It's my understanding. 22 Q. And he went to prison; right? 23 A. Yes. 24 Q. And while he was at -- he was at IBT during 25 the same period of time that Monsanto had hired IBT to	28 1 testing various PCBs that have reported negative 2 results. 3 Q. Hmm. Isn't it true, sir, that every 4 governmental agency that has looked at PCBs and 5 whether they cause cancer in animals has concluded 6 that PCBs cause cancer in animals? 7 MR. MILLER: Object to the form. 8 A. As far as I know, that's correct. 9 Q. (By Mr. Stewart) So let's turn to the topic 10 of "The Key to Departmental Codes Listed for Monsanto 11 Personnel on Internal Monsanto Documents." 12 A. Okay. 13 Q. You know of what I am referring; yes? 14 A. I do. 15 Q. Okay. So there is a code that appears on 16 some Monsanto documents, internal documents that 17 includes alphabetical letters and numbers. Can you 18 explain that code to me, please? 19 A. I can. 20 Q. Please do. 21 A. The Monsanto world headquarters buildings 22 was a complex of a number of buildings. Each of those 23 buildings had a letter name assigned to it. So that's 24 the letter, the first letter, A, B, C, whatever it 25 might be.

29 1 The second digit or place in those codes is 2 a number, a numeric number. That is the floor in that 3 particular building, and the last either one or two 4 letters in the name designate the mail drop in that 5 floor. So NE would be the northeast mail -- mail 6 drop. The NW would be northwest. C would be center. 7 So it was basically where the -- a code for where the 8 mailing department should deliver the mail. 9 Q. How far back does that code go? 10 A. As far as I know, Monsanto moved into World 11 Headquarters -- part of Monsanto moved into World 12 Headquarters in the mid 1950s. I don't know for sure, 13 but I assume that's when that code was developed. 14 Q. Based on all the testing that has done -- 15 been done on PCBs causing cancer in animals, is 16 Monsanto's position that PCBs don't cause cancer of 17 any type in animals? 18 MR. MILLER: I'm going to object to the form 19 of the question. It exceeds the scope of your notice. 20 Subject to that, Dr. Kaley, you can answer 21 if you know. 22 A. No. 23 Q. (By Mr. Stewart) "No," what? 24 A. "No" in answer to your question. 25 Q. Okay. Let me try it again. Based on all of	31 1 Subject to that, you can answer. 2 A. Under the conditions of those tests, 3 Monsanto has no reason to believe that those results 4 aren't as reported. 5 Q. (By Mr. Stewart) All right. Well, my 6 question was, does Monsanto believe that the PCBs 7 cause cancer in those animals? 8 MR. MILLER: Object to the form. Exceeds 9 the scope. 10 A. Yes. I think that's a fair judgment, yes. 11 Q. (By Mr. Stewart) Are you aware -- is 12 Monsanto aware of public statements that it has made 13 regarding whether PCBs can cause cancer of any type in 14 people? 15 A. I believe there's such statements have been 16 made. 17 Q. All right. Can you tell me what you believe 18 those statements have been? 19 A. Well, the one that springs clearest to mind 20 is a paper presented and then eventually published in 21 a book or reviewed by a Monsanto epidemiologist about 22 1980 that reviewed the status of the understanding 23 of -- it was later than that. Had to be later than 24 that -- maybe 1983 that looked at the status of PCB, 25 both toxicology and epidemiology at that time.
30 1 the studies that have been done studying whether PCBs 2 cause cancer in animals, does Monsanto believe that 3 PCBs cause cancer of any type in any animal? 4 MR. MILLER: Object to the form. Same 5 objections. 6 Go ahead. 7 A. Well, that's the reverse of the question you 8 asked, but -- so the answer to that question is "yes." 9 Q. (By Mr. Stewart) What types of cancer does 10 Monsanto believe that PCBs cause in animals? 11 MR. MILLER: Same objection. 12 A. The primary cancer reported in the studies 13 that have found cancer in animals is typically liver 14 cancer. There have been other types of, I believe, of 15 throat cancers or some others. I don't have them all 16 memorized. There are a number that have been reported 17 in this study or that study. 18 Q. (By Mr. Stewart) And Monsanto -- 19 A. But it's primarily, liver cancer. 20 Q. I'm sorry. 21 And Monsanto believes the content of those 22 studies and that they are an accurate reflection of 23 what PCBs can do to animals; correct? 24 MR. MILLER: Object to the form. Exceeds 25 the scope of the notice.	32 1 Q. Okay. And what's the title of that book? 2 A. As I sit here, I don't remember. 3 Q. Who is the author of that book? 4 A. I don't remember. It was a proceeding -- it 5 was a book that reported the proceedings of the 6 conference, as I recall. 7 Q. What was the name of the conference? 8 A. It was something about PCBs in the Great 9 Lakes or something similar to that. 10 Q. Are there any other public statements that 11 have been made by Monsanto with regard to whether PCBs 12 are capable of causing cancer of any type in people? 13 A. In people? 14 Q. Yes. 15 A. I suspect there are statements of one sort 16 or another in press releases or possibly quotes from 17 newspapers where Monsanto has expressed their view of 18 the carcinogenicity of PCBs in people, yes. 19 Q. And Monsanto's view is PCBs don't cause 20 cancer in people; right? 21 MR. MILLER: Object to the form of the 22 question. It exceeds the scope of your notice. 23 A. I think that's an oversimplification of the 24 statement, but I think that's basically correct, yes. 25 Q. (By Mr. Stewart) Okay. Well, when you say

33 1 it's an oversimplification of it, why don't you tell 2 me what Monsanto's position is on whether or not PCBs 3 cause cancer in people. 4 MR. MILLER: Same objection. 5 A. I would -- and these are more my words than 6 Monsanto's -- but I would say that under the 7 conditions in which PCBs have -- conditions in which 8 people have been exposed to PCBs, the study of those 9 people has not produced any consistent or convincing 10 evidence that PCBs cause cancer in humans. 11 Q. (By Mr. Stewart) Has Monsanto made any 12 public statements with regard to whether PCBs are 13 capable of causing non-Hodgkin's lymphoma? 14 A. Not that I'm aware of. 15 Q. Are you aware of Monsanto's position as to 16 whether PCBs are capable of causing non-Hodgkin's 17 lymphoma? 18 MR. MILLER: Object to the form. It exceeds 19 the scope of your notice. 20 Subject to that, if you have an opinion, 21 express it. 22 A. As -- as what Monsanto believes today? I 23 don't really -- I mean, I believe they believe what I 24 just said about cancer in general, that there's no 25 clear and convincing evidence that PCBs cause	35 1 Q. How about the 1940s? Did the Environmental 2 Protection Agency exist? 3 A. No. 4 Q. The 1950s, did the Environmental Protection 5 Agency exist? 6 A. No. 7 Q. In the 1960s, did the Environmental 8 Protection Agency exist? 9 A. No. 10 Q. So during the entire time that Monsanto made 11 PCBs in the '30s, the '40s, the '50s, and the '60s, 12 there was no Environmental Protection Agency; correct? 13 A. During those decades, that's correct. 14 Q. Uh-huh. And during the '30s, the '40s, the 15 '50s, and the '60s, were there any state environmental 16 agencies in either Illinois or Alabama? 17 A. I don't know. 18 Q. You're not aware of there being state 19 regulatory agencies that regulated the environment in 20 the 1930s, the '40s, the '50s, or the '60s in either 21 Illinois or Alabama; correct? 22 MR. MILLER: Object to the form. It exceeds 23 the scope of your notice. 24 A. I agree with that. 25 Q. (By Mr. Stewart) And you're not aware in the
34 1 non-Hodgkin's lymphoma on any of the available 2 literature. 3 Q. (By Mr. Stewart) Okay. Well, do they 4 believe there is evidence that shows more likely than 5 not that PCBs cause non-Hodgkin's lymphoma? 6 A. No. 7 MR. MILLER: I'm going to object -- 8 THE WITNESS: Sorry. 9 MR. MILLER: -- object to the form. Exceeds 10 the scope of the notice. 11 A. No. 12 Q. (By Mr. Stewart) Okay. Sir, back to the 13 topic of Monsanto's standards of conduct. Does 14 Monsanto believe it bears some responsibility for the 15 fact that PCBs have contaminated the environment? 16 MR. MILLER: Object to the form of the 17 question. That exceeds the scope of the notice. 18 A. I don't know. 19 Q. (By Mr. Stewart) I want to turn to the topic 20 of "The History of Legal and Regulatory Standards 21 Governing Monsanto's Conduct in the Production and 22 Marketing of PCBs." 23 Now, in the 1930s when Monsanto began making 24 PCBs, did the Environmental Protection Agency exist? 25 A. No.	36 1 '30s, the '40s, the '50s, the '60s of any 2 environmental regulatory agency monitoring what 3 Monsanto was doing at either its Anniston, Alabama, 4 plant or its Sauget, Illinois, plant; true? 5 MR. MILLER: Object to the form. Are you 6 just talking about with respect to environmental 7 discharges or any aspect of the plant? 8 Q. (By Mr. Stewart) You can answer my question. 9 MR. MILLER: I'll object as vague and 10 ambiguous. 11 A. Well, I think you said environmental. To 12 the extent that that's what you said, yes, I think 13 that's true, as far as I know. 14 Q. (By Mr. Stewart) And you would agree that 15 there was no one in the '30s, the '40s, the '50s, or 16 the '60s in the state of Illinois government who knew 17 more about PCBs and what they could do than the folks 18 at Monsanto; right? 19 A. I don't know. 20 MR. MILLER: Object to the form of the 21 question. It exceeds the scope of your notice. Calls 22 for speculation. 23 A. I don't know. 24 Q. (By Mr. Stewart) Were you aware of any 25 governmental or regulatory agency that knew more about

37 1 PCBs than Monsanto in the 1930s? 2 A. I'm not aware of any. 3 Q. How could there be any? 4 MR. MILLER: Object to the form. Calls for 5 speculation. There's no foundation. Exceeds the 6 scope of your notice. 7 Subject to that. 8 A. I lost the train of your question. I'm 9 sorry. 10 Q. (By Mr. Stewart) How could there be any? 11 Was anyone else making PCBs in the 1930s? 12 MR. MILLER: That's two different questions. 13 Object to the form. 14 Q. (By Mr. Stewart) Go ahead. 15 A. I'd like -- if it's all right with you, I'd 16 like to go back to the, like, the two previous 17 questions where this started. 18 Q. We can do that. 19 A. I don't remember what your original question 20 was that started this. 21 Q. Sure. We can do that. 22 Is Monsanto aware -- I'll just reask it. 23 A. Okay. 24 Q. Is Monsanto aware of anyone in the 1930s who 25 was involved in regulations or governmental agencies	39 1 but that wasn't your question. 2 Q. Okay. So now my question is, more likely 3 than not, isn't it true that there was no one in the 4 1930s who knew more about PCBs and what they could do 5 than Monsanto? 6 MR. MILLER: Object to the form. What do 7 you mean by "what they could do"? 8 Q. (By Mr. Stewart) You can answer. 9 A. Well, with regard to the manufacturing, I 10 would agree with that. With regard to what they could 11 do, I don't know the answer to that. There were other 12 people that were using PCBs during that time frame. 13 They may very well have known more about what PCBs 14 could do and whatever you mean by what they could do. 15 I mean, those companies were using them as 16 functional fluids for various reasons, so they knew 17 what they could do. 18 Q. So now let's go back to officials in the 19 state of Illinois and officials in the state of 20 Alabama, the two states that Monsanto was making PCBs 21 in. Is Monsanto aware of any officials in the state 22 of Illinois, the state of Alabama that knew as much or 23 more than Monsanto about PCBs in any way? 24 A. No. 25 MR. MILLER: Object. I'll just show an
38 1 in the 1930s that knew as much about PCBs as Monsanto 2 did? 3 MR. MILLER: Object to the form. Exceeds -- 4 exceeds the scope of your notice and calls for 5 speculation. 6 A. I'm not aware that Monsanto knew of anyone 7 that -- such as you described. 8 Q. (By Mr. Stewart) I'm asking, is Monsanto 9 aware of anyone -- let me -- let me strike that. 10 It's true, isn't it, sir, that in the 1930s 11 no one knew more in the United States about how to 12 make PCBs and what they could do than Monsanto; right? 13 MR. MILLER: Object to the form. Exceeds 14 the scope. It's vague and ambiguous. 15 A. I don't know. 16 Q. (By Mr. Stewart) Monsanto doesn't know if 17 there was anyone in the United States who knew more 18 than them about making PCBs in the 1930s? 19 A. I would say that's correct. There may very 20 well have been. 21 Q. You think it's more likely true than not 22 that there may very well have been someone who knew 23 more about making PCBs than the only maker of PCBs in 24 the United States? 25 A. I don't know that it's more likely than not,	40 1 objection to form. Exceeds the scope of the 2 deposition notice. There's no foundation. 3 Q. (By Mr. Stewart) What is the name of the 4 first governmental entity that attempted to regulate 5 PCBs? 6 A. I'm hesitating because my initial answer 7 would be the FDA, but actually, the U.S. Department of 8 Transportation probably had regulations governing the 9 shipment of PCBs prior to that. 10 Q. And when do you believe that occurred? 11 MR. MILLER: Object to the form. It's 12 outside the scope. 13 A. I -- I don't know. It's with regard to 14 the -- I'm sorry. With regard to the Department of 15 Transportation, I don't know. If that was your 16 question. 17 Q. (By Mr. Stewart) So you don't know when it 18 was that they started doing that? 19 A. No, I don't. 20 Q. Can you give me a decade? 21 A. I really can't. 22 Q. Then why did you pick them? 23 A. Because I know that there were labels that 24 required for shipment of materials prior to when I 25 believe the FDA first instituted regulations or

41 1 recommendations with regard to PCBs. 2 Q. And when did the FDA first step in with 3 respect to PCBs. 4 A. That would have been 1973. 5 Q. So prior to 1973, you're not aware of any 6 other governmental entity that was attempting to 7 regulate PCBs; correct? 8 MR. MILLER: Object to the form with respect 9 to "attempting to regulate." It's beyond the scope of 10 the notice. 11 Go ahead. 12 A. Okay. And then as I sit here, OSHA was 13 created about 1971, I believe; and upon the creation 14 of OSHA, they adopted the ACGIH threshold limit values 15 for occupational exposure to a whole variety of 16 chemicals among which was PCBs, so that would predate 17 even the FDA. 18 Q. (By Mr. Stewart) So now if I understand you, 19 the first entity that you're aware of that attempted 20 to regulate PCBs was OSHA in 1971? 21 A. Yes. With the proviso that the U.S. 22 Department of Transportation may have had shipping 23 regulations prior to that. 24 Q. But you don't know when? 25 A. I don't know when, as I sit here, no.	43 1 Q. So are you telling me that throughout this 2 deposition you have answered questions that might not 3 have been more likely true than not -- 4 MR. MILLER: Object to the form. 5 Q. (By Mr. Stewart) -- when you said them, your 6 answers? 7 MR. MILLER: It's overly broad. 8 Q. (By Mr. Stewart) Let me rephrase the 9 question. Have you given me answers during this 10 deposition that were not more likely true than not? 11 MR. MILLER: Object to the form. That's 12 overly broad. Is there something that you can refer 13 to? 14 Q. (By Mr. Stewart) You can answer. 15 A. Well, I think all of the questions I've 16 answered were more -- the answers were more likely 17 true than not. That's because they were true. 18 Q. Okay. And so now I'm asking you, sir, with 19 respect to the State of Illinois, isn't it true, more 20 likely than not -- 21 A. Thank you. 22 Q. You're welcome. -- that the State of 23 Illinois did not know nearly as much about PCBs as 24 Monsanto did in the 1930s? 25 MR. MILLER: Object to the form. It's
42 1 Q. Now, in 1971, how old of an institution was 2 OSHA? 3 A. It was newly created. 4 Q. Right. OSHA didn't exist in the '30s or the 5 '40s or the '50s or the '60s; correct? 6 A. That's correct. 7 Q. In the 1930s, the state of Illinois didn't 8 know more about PCBs than Monsanto; true? 9 MR. MILLER: Object to the form. Exceeds 10 the scope of the notice. There's no foundation. 11 Calls for speculation. 12 A. I don't know. 13 Q. (By Mr. Stewart) Do you think it's possible, 14 more likely than not, that the State of Illinois knew 15 more about PCBs in the 1930s than Monsanto? 16 MR. MILLER: Object to the form. Same 17 objections. 18 A. I don't think it's more likely than not, no. 19 Q. (By Mr. Stewart) Okay. Well, the questions 20 I'm asking you today are based on what's more likely 21 true than not true; okay? 22 A. I'd prefer not to assume that. If that's 23 the question, I think, frankly, I would prefer that 24 you state that in the question so I know what I'm 25 answering.	44 1 outside the scope of the notice. Calls for 2 speculation. There's no foundation. 3 A. I would say that's probably true, yes. 4 Q. (By Mr. Stewart) Yes. And in the 1930s, 5 isn't it true, more likely than not, that the State of 6 Missouri didn't know nearly as much about PCBs as 7 Monsanto; true? 8 MR. MILLER: Objection. Same objections. 9 A. I would agree with that. 10 Q. (By Mr. Stewart) And isn't it true that in 11 the 1930s the State of Alabama didn't know nearly as 12 much about PCBs as Monsanto; true? 13 MR. MILLER: Same objections. 14 A. I would agree with that. 15 Q. (By Mr. Stewart) Isn't it true that in the 16 1930s the State of California or the State of New York 17 or any state in the United States didn't know nearly 18 as much about PCBs as Monsanto did? 19 MR. MILLER: I'll object to the form of the 20 question. Same objections. 21 A. I would agree with that. 22 Q. (By Mr. Stewart) Uh-huh. And that would be 23 true for the 1940s and the 1950s and the 1960s; 24 correct? And when I say that, I'm saying that there 25 was no state in the union who knew more or -- strike

45 1 that. 2 It would be true, more likely than not, that 3 in the 1930s, the '40s, the '50s, the '60s that there 4 was no state in the union that knew nearly as much 5 about PCBs as Monsanto; correct? 6 MR. MILLER: Object to the form of the 7 question. 8 A. As far as I know, that's true. 9 Q. (By Mr. Stewart) Has Monsanto ever tried to 10 determine when it was manufacturing and selling DDT 11 which of its employees made DDT? Ever try and 12 identify those employees? 13 MR. MILLER: Object to the form. 14 A. I believe other than to the extent that 15 those people may be named on the standard operating 16 procedures, but I'm not aware of any effort to 17 identify those people. 18 Q. (By Mr. Stewart) Explain that to me. How 19 would that -- how would that work where they would be 20 named on the standard operating procedures? 21 A. Well, they would probably have been authors 22 of them. I can't recall, as I sit here, what those 23 operating procedures say, but in my rec- -- my 24 recollection would be that usually people involved in 25 the manufacture of or the process of manufacturing	47 1 10:09. 2 Q. (By Mr. Stewart) Sir, those are all the 3 questions I have for you at this time. 4 (Defendants Exhibit 34 was marked for 5 identification.) 6 EXAMINATION 7 BY MR. MILLER 8 Q. Dr. Kaley, good morning. 9 A. Good morning. 10 Q. I'm going to hand you what we've marked as 11 Exhibit No. 34. Dr. Kaley, you're certainly familiar 12 with this article, are you not? 13 A. Yes, I am. 14 Q. Can you read the title of the article? 15 A. The title of the article is "The Problem of 16 Systemic -- I'm sorry. "The Problem of Possible 17 Systemic Effects From Certain Chlorinated 18 Hydrocarbons." 19 Q. And where was this article published? 20 A. It was published in the Journal of 21 Industrial Hygiene and Toxicology. 22 Q. And what was the date of its publication, 23 Doctor? 24 A. September 1937. 25 Q. Who is Dr. Cecil Drinker?
46 1 particular chemical, whether it was DDT or anything 2 else, were the authors of those standard operating 3 procedures, so their names would be on those as 4 authors. 5 Q. Have you seen Monsanto's standard operating 6 procedure for the manufacturer of DDT? 7 A. Yes. It's one of the references, I believe, 8 to the exhibit. I don't remember the exhibit number 9 but the exhibit for Question 1. May have been 10 Exhibit 4. I don't know. 11 Q. So you're talking about the six references 12 that are found in Exhibit 4? 13 A. Yes. Other than -- well, there's probably 14 no reference that had a piece of paper that actually 15 corresponds with Reference 4. 16 Q. Understood. 17 A. But other than that, yes. Those process 18 descriptions or reports, my understanding, as I sit 19 here today, would be that they were written by people 20 familiar with the process. 21 MR. STEWART: Let's take a break. 22 THE VIDEOGRAPHER: Going off the record at 23 9:53 a.m. 24 (A short break was taken.) 25 THE VIDEOGRAPHER: Back on the record at	48 1 A. He was a physician on the staff at Harvard 2 Medical School -- or School of Public Health, I'm 3 sorry. 4 Q. Was the article that we've marked as 5 Exhibit No. 4 [sic] prepared by Dr. Drinker and others 6 at the Harvard School of Public Health? 7 A. Yes, it was. 8 Q. And Dr. Kaley, are you familiar with this 9 article? 10 A. Yes, I am. 11 Q. The article includes not only the findings 12 of Dr. Drinker with respect to certain animal toxicity 13 studies that he ran, but it also includes the summary 14 of proceedings that were held at a conference in which 15 these findings were presented; is that correct? 16 A. That is correct. 17 Q. And you were asked some questions this 18 morning regarding governmental agencies or 19 organizations through time that knew certain things 20 about PCBs. And I wanted to go through with you the 21 list of some of the folks who are identified as having 22 attended these proceedings. Is that all right with 23 you? 24 A. Yes. 25 Q. If you turn to page 300.

49 1 A. Yes. 2 Q. What we've marked as Exhibit No. 34. Are 3 some of the attendees at the conference and 4 proceedings identified? 5 A. Yes, they are. 6 Q. Is a Dr. W.F. von Oettingen identified? 7 A. Yes. 8 Q. Who is Dr. von Oettingen? 9 A. He was, as it says here, the director of the 10 Haskell Laboratory of Industrial Toxicology in 11 Delaware. That was the toxicology laboratory of 12 DuPont Corporation. 13 Q. Was Dr. von Oettingen attending the 14 proceedings as a delegate of DuPont? 15 A. I presume that would be. I don't know for 16 sure. 17 Q. Okay. Who was Dr. R.R. Sayers? 18 A. As it says, he's the chief of the Division 19 of Industrial Hygiene from the National Institute of 20 Health, the U.S. Public Health Service. 21 Q. And was -- is there any question in your 22 mind as to whether Dr. Sayers attended the proceedings 23 in his capacity as chief of the Division of Industrial 24 Hygiene, National Institute of Health, U.S. Public 25 Health Service, Washington, D.C.	51 1 A. Yes. 2 Q. Were there industries using polychlorinated 3 biphenyls in industry in Massachusetts during this 4 time period? 5 A. Yes. 6 Q. Who is Mr. F.R. Kaimer, K-A-I-M-E-R? 7 A. He was apparently, as it says here, an 8 assistant to the manager of the York Wireworks, 9 Division of General Electric Company. 10 Q. Is it your understanding that Mr. Kaimer was 11 attending the proceedings of Dr. Drinker as a 12 representative of the General Electric Company? 13 A. Yes. 14 Q. Was General Electric Company using 15 polychlorinated biphenyls in its industry during the 16 time period in which the proceedings were held, 17 convened? 18 A. They were either using PCBs or 19 polychlorinated naphthalenes or a mixture of those 20 materials. It's not clear from his comments which 21 specifically they were using. 22 Q. In any event, you understand, Dr. Kaley, 23 that General Electric became a substantial customer of 24 Monsanto's PCBs sometime in the -- after the 1930s? 25 A. During the -- yeah. Certainly, during the
50 1 A. No. I'm sure he did. 2 Q. Was an Albert S. Gray also in attendance at 3 these proceedings? 4 A. Yes. 5 Q. And who was Dr. Albert S. Gray? 6 A. He is identified as the director, Bureau of 7 Occupational Diseases from the state of Connecticut. 8 Q. Were there industries in Connecticut that 9 were using PCBs during this time period? 10 A. Judging from his comments, yes. There must 11 have been. 12 Q. Okay. And was Dr. Gray in attendance at 13 these proceedings in this capacity as the director of 14 the Bureau of Occupational Diseases, State of 15 Connecticut Department of Health? 16 A. Yes. 17 Q. And who was Mr. Manfred Bowditch, 18 B-O-W-D-I-T-C-H? 19 A. He was director of Divisional Occupational 20 Hygiene, the Massachusetts Department of Labor and 21 Industries. 22 Q. And was Mr. Bowditch in attendance at 23 Dr. Drinker's proceeding in his official capacity as 24 director of the Division of Occupational Hygiene, 25 Department of Labor and Industries of Massachusetts?	52 1 1930s, they were one of the original customers. 2 Q. And who was Mr. Warren A. Cook? He appears 3 on page 305 of Exhibit -- that we've marked as 4 Exhibit 34? 5 A. I'm sorry. He's identified as the chief of 6 Industrial Hygienist from the Bureau of Occupational 7 Diseases in the state of Connecticut. 8 Q. Was Mr. Warren, to your understanding, 9 attending the proceedings on behalf of the Bureau of 10 Occupational Diseases, State of Connecticut Department 11 of Health? 12 A. Yes. 13 Q. And if you turn to page 306 of what we've 14 marked as Exhibit 34, Dr. Kaley, there appears to be a 15 reference to a Mr. Hervey B. Elkins? 16 A. Yes. 17 Q. And would you tell us with whom Mr. Elkins 18 was employed at the time? 19 A. He was with the Division of Occupational 20 Hygiene in the state of Massachusetts. 21 Q. And were there industries within the state 22 of Massachusetts that were using PCBs in its industry 23 at that time? 24 A. Yes. General Electric had a facility there. 25 Q. And of course, Dr. Emmett Kelly was in

53 1 attendance? 2 A. That is correct. 3 Q. And if you turn to page 308, Dr. Kaley, 4 there's a reference to a Louis Schwartz? 5 A. Yes. 6 Q. Who is Dr. Schwartz? 7 A. I believe he was -- he's not identified on 8 that page. Let me see if he's identified earlier in 9 the discussion. I believe he was an occupational 10 physician, as I recall, but -- 11 Q. And is it true that he had consulted with 12 both Monsanto and Swann? 13 A. Yes. That is true, yes. He had done some 14 of the early testing. 15 Q. And if you also look on page 308, there's a 16 reference to a Dr. Royal Meeker? 17 A. Yes. 18 Q. And with whom was Dr. Meeker employed at the 19 time? 20 A. The State of Connecticut Department of 21 Labor. 22 Q. And do you have any doubt in your mind that 23 Dr. Meeker was attending the proceedings on behalf of 24 the State of Connecticut? 25 A. No. I'm sure that's why he was there.	55 1 A. Yes, it was. 2 Q. Was it, to your knowledge, Dr. Kaley, one of 3 the premiere journals of industrial hygiene at the 4 time? 5 A. I couldn't say whether it was the premiere 6 or not. 7 Q. Would the individuals that we have listed 8 from the various governmental agencies have a 9 substantial amount of information about the acute 10 health effects of exposures to PCBs in industrial 11 settings provided by Dr. Drinker? 12 A. Yes. I believe they would have. 13 Q. All right. And anyone who had access to the 14 Journal of Industrial Hygiene would have received that 15 same information, would they not? 16 A. That's correct. 17 Q. For now, those are all the questions I have. 18 MR. STEWART: I don't have any further 19 questions. 20 THE WITNESS: All right. 21 MR. MILLER: Dr. Kaley will read and sign. 22 THE VIDEOGRAPHER: That concludes the 23 deposition. Going off the record at 10:20 a.m. 24 (Whereupon signature was reserved, and 25 the witness was excused.)
54 1 Q. And if you turn to page 310, there's 2 reference to a Dr. Emery R. Hayhurst. Do you see 3 that? 4 A. Yes, I do. 5 Q. Does this reference indicate that a 6 Dr. Emery Hayhurst, a consultant in industrial 7 medicine for the State Department of Health in 8 Columbus, Ohio, was in attendance of Dr. Drinker's 9 proceedings? 10 A. Yes, he was. 11 Q. If you also look on page 310, would you 12 identify Dr. B.L. Vosburgh for us? 13 A. Yes. He was -- he's identified as the 14 medical director of General Electric Company. 15 Q. Would the individuals who we've just 16 identified have received the information that 17 Dr. Drinker imparted to them at these proceedings? 18 A. Certainly. They were present during those 19 presentations. 20 Q. And the Journal of Industrial Hygiene and 21 Toxicology is the journal in which these proceedings 22 were published; is that correct? 23 A. Yes. 24 Q. Was that a widely disseminated journal of 25 industrial hygiene during the 1930s?	56 1 COMES NOW THE WITNESS, DR. ROBERT KALEY, and 2 having read the foregoing transcript of the deposition 3 taken on November 18, 2011, acknowledges by signature 4 hereto that it is a true and accurate transcript of 5 the testimony given on the date hereinabove mentioned. 6 7 8 _____ 9 (Dr. Robert Kaley) 10 11 12 Subscribed to before me this _____ day of 13 _____, 2011. 14 15 _____ 16 Notary Public 17 My commission expires: _____. 18 19 EDWARD COLELLA, ET AL. 20 vs. 21 MONSANTO CO., ET AL. 22 23 Reporter: Dawn M. Bloemker, CSR, RPR, CCR 24 Date Taken: November 18, 2011 25

57 1 REPORTER CERTIFICATE 2 3 I, Dawn M. Bloemker, Certified Shorthand 4 Reporter, Registered Professional Reporter, and 5 Certified Court Reporter, do hereby certify that there 6 came before me at the law offices of Husch Blackwell, 7 LLP, 190 Carondelet Plaza, Suite 600, St. Louis, 8 Missouri 63105 9 DR. ROBERT KALEY 10 who was by me first duly sworn; that the witness 11 was carefully examined; that said examination was 12 reported by myself, translated and proofread using 13 computer-aided transcription; and the above transcript 14 of proceedings is a true and accurate transcript of my 15 notes as taken at the time of the examination of this 16 witness. 17 I further certify that I am neither attorney 18 nor counsel for nor related nor employed by any of the 19 parties to the action in which this examination is 20 taken; further, that I am not a relative or employee 21 of any attorney or counsel employed by the parties 22 hereto or financially interested in this action. 23 24 Dated November 25, 2011. 25 _____ Dawn M. Bloemker, CSR, RPR, CCR	59 1 IN THE UNITED STATES DISTRICT COURT 2 FOR THE EASTERN DISTRICT OF MISSOURI 3 4 LIVINGSTON HAMPTON, MAGGIE) 5 MOOYMAN, and RUSSELL ABBEY,) 6) 7 Plaintiffs,) 8) 9 vs.) Cause No. 4-11-CV-01662 10) 11 MONSANTO CO., SOLUTIA, INC.,) 12 PHARMACIA CORP., AND PFIZER,) 13 INC.,) 14) 15 Defendants.) 16 17 I, Dawn M. Bloemker, hereby certify 18 that the original deposition of DR. ROBERT KALEY, 19 taken on November 18, 2011, is in the custody of Allen 20 Stewart, P.C., 325 N. St. Paul Street, Suite 2750, 21 Dallas, Texas 75201. 22 23 TAXED IN FAVOR OF PLAINTIFFS 24 25 Total: \$ FOR: Allen Stewart, P.C., 325 N. St. Paul Street, Suite 2750, Dallas, Texas 75201. TAXED IN FAVOR OF DEFENDANTS Total: \$ FOR: Husch Blackwell, LLP, 190 Carondelet Plaza, Suite 600, St. Louis, Missouri 63105.
58 1 CERTIFICATE OF REPORTER 2 AND STATEMENT OF DEPOSITION COSTS 3 4 EDWARD COLELLA,) 5) 6 Plaintiff,) 7) 8 vs.) Cause No. 09SL-CC01972 9) Division No. 7 10) 11 MONSANTO CO., ET AL.,) NOTICE OF DEPOSITION 12) 13 Defendants.) 14 ----- 15 MISSOURI CIRCUIT COURT 16 TWENTY-FIRST JUDICIAL CIRCUIT 17 ST. LOUIS COUNTY 18 LIVINGSTON HAMPTON, MAGGIE) 19 MOOYMAN, and RUSSELL ABBEY,) 20) 21 Plaintiffs,) 22) 23 vs.) Cause No. 10SL-CC03428 24) Division 17 25 MONSANTO CO., ET AL.,) Defendants.) ----- MISSOURI CIRCUIT COURT TWENTY-FIRST JUDICIAL CIRCUIT ST. LOUIS COUNTY NISHIDA, NICHOLAS WHITE,) INDIVIDUALLY AND AS SURVIVOR) OF MARK WHITE, DECEASED,) AND ALISON TUCKER,) Plaintiffs,) vs.) Cause No. 09SL-CC01964 Division No. 13 MONSANTO CO., ET AL.,) NOTICE OF DEPOSITION Defendants.)	60 1 Upon delivery of transcript, the above charges had not 2 been paid. It is anticipated that all charges will be 3 paid in the normal course of business. 4 5 6 I have hereunto set my signature on 7 November 25, 2011. 8 9 10 _____ 11 Dawn M. Bloemker, CSR, RPR, CCR 12 13 14 15 16 17 18 19 20 21 22 23 24 25

A	
abber 1:11 2:4 4:11 5:3 58:10 59:3 acceptable 10:4 access 55:13 accurate 30:22 56:4 57:9 accused 23:9 acgih 41:14 acknowledges 56:3 action 57:12,13 acute 55:9 adam 5:18 6:21 administered 7:7 adopted 41:14 age 7:5 agencies 35:16,19 37:25 48:18 55:8 agency 28:4 34:24 35:2,5,8,12 36:2,25 agree 9:22,24 10:5,13,20,22 11:6,17 12:4 13:3,15,23 14:22 35:24 36:14 39:10 44:9,14 44:21 agreed 6:1 agreeing 24:23 agreement 6:7 agrees 13:12 ahead 15:25 23:4 25:22 30:6 37:14 41:11 al 1:6,14,23 4:6,14,23 5:16 6:13,14,20 56:19 56:20 58:6,13,22 alabama 35:16,21 36:3 39:20,22 44:11 albert 50:2,5 alison 1:20 4:20 58:19 allen 5:16,17 59:10,15 alphabetical 28:17 ambiguous 17:5 36:10 38:14 amount 8:11,23 55:9 ani 17:15 animal 30:3 48:12 animals 16:12,16 17:10,22 18:5 19:3,12 20:7 20:21,25 21:5,9,15,21 27:1,7,12,15,18,22,23 28:5,6 29:15,17 30:2,10,13,23 31:7 anniston 36:3 announced 12:23 answer 11:22 13:9 15:25 17:3 19:9 20:13,16 23:2,3 24:2 29:20,24 30:8 31:1 36:8 39:8,11 40:6 43:14 answered 19:14,15 20:10 43:2,16 answering 42:25	answers 43:6,9,16 anticipated 60:2 apparently 51:7 appears 28:15 52:2,14 applicable 10:2 applied 10:1,16 appropriate 10:4,10,11 25:3 approximately 7:23 8:12 arent 31:4 article 47:12,14,15,19 48:4,9,11 asked 19:10,13 30:8 48:17 asking 38:8 42:20 43:18 aspect 36:7 assigned 28:23 assistant 51:8 associated 18:19 assume 8:25 14:10 29:13 42:22 assuming 19:16 attached 3:20,22 attempted 40:4 41:19 attempting 41:6,9 attendance 50:2,12,22 53:1 54:8 attended 48:22 49:22 attendees 49:3 attending 49:13 51:11 52:9 53:23 attorney 57:11,13 author 32:3 authors 45:21 46:2,4 available 17:13,14,17 18:2 20:11 34:1 average 8:15 aware 16:13 21:20 27:10 31:11,12 33:14,15 35:18,25 36:24 37:2,22,24 38:6,9 39:21 41:5,19 45:16
	B
	b 3:7 28:24 52:15 54:12 back 26:5,9,13 29:9 34:12 37:16 39:18 46:25 based 29:14,25 42:20 basically 29:7 32:24 basis 25:24 bears 34:14 becoming 8:22 began 11:23 21:11 34:23 behalf 2:17 5:10 6:21,23 52:9 53:23 behaved 16:9

believe 10:2,9,17 13:1 15:5,6,14 16:7 18:7,10
19:15,21,22 21:10 22:3,9 27:3,4 30:2,10,14
31:3,6,15,17 33:23,23 34:4,14 40:10,25
41:13 45:14 46:7 53:7,9 55:12

believed 10:17

believes 30:21 33:22

best 7:15

beyond 41:9

biotest 22:1

biphenyls 51:3,15

blackwell 5:11,19,22 6:17 57:4 59:18

bloemker 2:22 5:12 6:4 56:22 57:2,19 59:9
60:9

book 31:21 32:1,3,5

bowditch 50:17,18,22

break 46:21,24

broad 43:7,12

broke 9:17

brought 9:5

building 29:3

buildings 28:21,22,23

bureau 50:6,14 52:6,9

business 12:24 60:3

C

c 5:15,17 28:24 29:6 49:25 59:11,15

calandra 22:4,5,12 23:9 26:5

calandras 23:1

california 44:16

call 22:25

calls 11:20 14:18,18 25:13,19 26:4 36:21 37:4
38:4 42:11 44:1

cancer 16:12,16 17:10,15,19,22,23 18:5 19:3
19:6 20:7,21,25 21:5,9,15,21 27:1,7,12,15
27:18,22,23 28:5,6 29:15,16 30:2,3,9,12,13
30:14,19 31:7,13 32:12,20 33:3,10,24

cancerous 19:12

cancers 16:18 30:15

cant 40:21 45:22

capable 16:17,18 32:12 33:13,16

capacity 49:23 50:13,23

carcinogenicity 32:18

carefully 57:7

carol 5:21 6:23

carondelet 5:12,19,22 57:4 59:18

category 3:9

cause 1:5,13,22 2:6 4:5,13,22 5:5 6:14 16:12
17:10,15,22,23 18:5 19:3 20:7 21:15,21
27:1,6,11,15,18,23 28:5,6 29:16 30:2,3,10
31:7,13 32:19 33:3,10,25 34:5 58:4,12,21
59:5

caused 16:16 20:21,25 21:4,8 27:22

causing 17:19 29:15 32:12 33:13,16

ccr 2:22,24 56:22 57:19 60:9

cecil 47:25

center 29:6

central 5:24

certain 3:16 47:17 48:12,19

certainly 47:11 51:25 54:18

certificate 57:1 58:1

certified 5:12,13 6:4 57:2,3

certify 57:3,11 59:9

charge 22:9

charges 25:23 60:1,2

charts 9:3,6,12,14

chem 21:4

chemical 9:24 10:20,23 11:6,17 20:6 46:1

chemicals 13:20 17:14,18,21,22,25 18:23
20:6 21:8 41:16

chicago 21:24

chief 49:18,23 52:5

chlorinated 3:16 47:17

chose 19:18

circuit 1:1,1,8,9,16,17 4:1,1,8,9,16,17 58:8,8
58:15,16

clear 16:3 33:25 51:20

clearest 31:19

closely 17:24

coaching 16:24

code 28:15,18 29:7,9,13

codes 28:10 29:1

colella 1:3 4:3 5:16 6:12 56:19 58:2

columbus 54:8

comes 56:1

comments 50:10 51:20

commission 56:17

companies 23:24 39:15

company 2:13 6:12,13,14 18:13 20:6 51:9,12
51:14 54:14

complex 28:22

computeraided 57:8
concept 10:3 11:10
concepts 14:11
concluded 28:5
concludes 55:22
conclusion 11:20 14:18
conditions 31:2 33:7,7
conduct 9:19 14:22 34:13,21
conducted 21:23
conference 32:6,7 48:14 49:3
confused 24:24
confusing 16:1
connecticut 50:7,8,15 52:7,10 53:20,24
connection 9:1
conscious 19:21
consideration 21:10
considered 10:4 11:11 14:9
consistent 33:9
constraints 10:3,18 13:19 14:2,7 15:3,8,13
constructs 13:19
consultant 8:8,22 54:6
consulted 53:11
contaminated 34:15
content 30:21
convened 51:17
convicted 22:17,19 23:5,10 24:11,17 25:17
 26:19
conviction 25:24
convincing 33:9,25
cook 52:2
corp 2:7 5:6 59:6
corporate 2:13
corporation 16:8 49:12
corporations 16:9 23:10,12
correct 9:19,20 12:12,15 13:13 18:16,21
 19:12,16,19 20:8,18,19,22,23 21:1,2,5 24:13
 24:16,19 25:9,12 26:1,20 27:3,12,19 28:8
 30:23 32:24 35:12,13,21 38:19 41:7 42:5,6
 44:24 45:5 48:15,16 53:2 54:22 55:16
corresponds 46:15
costs 58:1
couldnt 55:5
counsel 6:2,2,7,18 57:11,13
county 1:2,9,17 4:2,9,17 58:9,16
couple 9:1

course 52:25 60:3
court 1:1,8,16 2:1 3:20,22 4:1,8,16 5:1,13 6:5
 6:25 7:7 57:3 58:8,15 59:1
created 41:13 42:3
creation 41:13
criminal 26:16
csr 2:22,23 56:22 57:19 60:9
custody 59:10
customer 51:23
customers 52:1

D

d 3:1,7 49:25
dallas 5:17,24 59:11,15
data 24:5
date 47:22 56:5,22
dated 57:15
dawn 2:22 5:12 6:4 56:22 57:2,19 59:9 60:9
day 5:11 56:12
ddt 45:10,11 46:1,6
debate 16:22
decade 40:20
decades 35:13
deceased 1:19 4:19 58:18
decision 19:21
defendants 1:7,15,24 2:9 3:14,21 4:7,15,24
 5:8,18,21 6:3,22,24 47:4 58:7,14,23 59:8,17
defense 26:16
define 11:2 15:21 17:2
delaware 49:11
delegate 49:14
deliver 29:8
delivery 60:1
department 29:8 40:7,14 41:22 50:15,20,25
 52:10 53:20 54:7
departmental 28:10
depending 11:25
deposes 7:8
deposition 1:6,23 2:12 4:6,23 5:9 6:3,10,16
 9:13 14:17 17:12 40:2 43:2,10 55:23 56:2
 58:1,6,22 59:10
described 38:7
descriptions 46:18
designate 29:4
details 25:23

determine 18:5 19:11 20:7,21,25 21:4,8,14 21:20 27:1,17 45:10 develop 11:23 developed 14:12 29:13 didnt 7:20 14:13 18:10,14 20:2,17,24 22:5 27:18 42:4,7 44:6,11,17 different 37:12 difficult 9:5 digit 29:1 director 49:9 50:6,13,19,24 54:14 discern 17:5 discharges 36:7 discriminately 10:1,16 discussion 26:6 53:9 diseases 50:7,14 52:7,10 dishonest 23:17,23,24 24:5 dispensation 12:2 disseminated 54:24 district 2:1,1 5:1,1 59:1,1 division 1:5,13,22 4:5,13,22 49:18,23 50:24 51:9 52:19 58:5,13,21 divisional 50:19 doctor 11:22 47:23 document 3:14 documents 9:4 28:11,16,16 doesnt 38:16 doing 16:17 24:25 26:9 36:3 40:18 domestic 3:9,11 dont 7:14 11:2 13:10,11 14:10,15 15:22 16:20 18:13 19:21 22:12,14,15 23:20 24:3,7 25:2 25:15,20,23 26:11 27:3 29:12,16 30:15 32:2 32:4,19 33:1,23 34:18 35:17 36:19,23 37:19 38:15,25 39:11 40:13,15,17,19 41:24,25 42:12,18 46:8,10 49:15 55:18 doubt 53:22 dr 2:12 3:3 5:9 6:3 7:4 15:25 16:2 22:25 23:1 23:3,9 24:10 25:7 29:20 47:8,11,25 48:5,8 48:12 49:6,8,13,17,22 50:5,12,23 51:11,22 52:14,25 53:3,6,16,18,23 54:2,6,8,12,17 55:2,11,21 56:1,8 57:6 59:10 drinker 47:25 48:5,12 51:11 54:17 55:11 drinkers 50:23 54:8 drop 29:4,6 duly 57:7 dupont 49:12,14	duties 26:11 E e 3:1,1,7,7 5:15,15,19 earlier 11:11,14 53:8 early 53:14 easier 9:6 eastern 2:1 5:1 59:1 edward 1:3 4:3 5:16 6:11 56:19 58:2 effects 3:16 47:17 55:10 effort 45:16 either 17:24 29:3 35:16,20 36:3 51:18 electric 51:9,12,14,23 52:24 54:14 elkins 52:15,17 emery 54:2,6 emmett 52:25 employed 52:18 53:18 57:11,13 employee 24:15,18 25:8 26:14 57:12 employees 45:11,12 entire 10:14 35:10 entities 8:22 entity 7:22 8:2,10 21:19 40:4 41:6,19 environment 34:15 35:19 environmental 34:24 35:1,4,7,12,15 36:2,6 36:11 epidemiologist 31:21 epidemiology 31:25 essentially 8:10,23 estimate 7:15 et 1:6,14,23 4:6,14,23 5:16 6:13,13 56:19,20 58:6,13,22 event 51:22 eventually 31:20 evidence 33:10,25 34:4 exact 27:4 examination 3:4,5 7:10 47:6 57:7,9,12 examined 5:10 7:5 57:7 exceeds 14:17 17:11 22:24 29:19 30:24 31:8 32:22 33:18 34:9,17 35:22 36:21 37:5 38:3 38:4,13 40:1 42:9 excuse 17:16 excused 55:25 exhibit 3:8,10,14,21 9:2,3,15,15 46:8,8,9,10 46:12 47:4,11 48:5 49:2 52:3,4,14 exhibits 3:19 9:2,9,10
---	---

exist 34:24 35:2,5,8 42:4 existed 14:13 20:16 expires 56:17 explain 28:18 45:18 exposed 33:8 exposure 41:15 exposures 55:10 express 33:21 expressed 32:17 expressway 5:24 extent 36:12 45:14	42:10 44:2 frame 11:25 13:21 15:8,14 18:3,23 19:7 27:4 39:12 frames 10:12 11:12,14 16:6,7,10 frankly 42:23 full 8:3 functional 39:16 further 55:18 57:11,12
F	
f 3:1,7 49:6 51:6 facility 52:24 fact 17:17,18 22:12 23:7 24:17 34:15 fair 31:10 false 22:21 23:11 falsified 25:11 falsifying 22:17 23:9 24:11 26:1 familiar 46:20 47:11 48:8 far 12:10 28:8 29:9,10 36:13 45:8 favor 59:13,17 fda 40:7,25 41:2,17 federal 23:8,8 26:19 financially 57:13 find 27:18 finding 16:18 findings 48:11,15 firm 5:16,19,21 first 21:7,19 28:24 40:4,25 41:2,19 57:7 floor 29:2,5 fluids 39:16 folks 36:17 48:21 foregoing 56:2 form 11:1,9,19 13:6,17,25 14:16 15:1,11,19 16:15 17:11 18:11,17 19:4,13,20 20:1,9,11 20:15 22:8,23 23:13,18,25 24:8 25:13,18 26:2 28:7 29:18 30:4,24 31:8 32:21 33:18 34:9,16 35:22 36:5,20 37:4,13 38:3,13 39:6 40:1,11 41:8 42:9,16 43:4,11,25 44:19 45:6 45:13 former 24:14 found 23:8 27:6,11,14,22 30:13 46:12 foundation 14:19 25:21 26:3,3 37:5 40:2	general 33:24 51:9,12,14,23 52:24 54:14 gentlemen 22:3 give 7:15 14:8 40:20 given 43:9 56:5 giving 16:21 go 15:25 22:5,7 23:4 25:22 29:9 30:6 37:14 37:16 39:18 41:11 48:20 goes 26:5 going 12:23 15:19 16:22 29:18 34:7 46:22 47:10 55:23 good 25:6 47:8,9 governing 34:21 40:8 government 23:8,8 36:16 governmental 28:4 36:25 37:25 40:4 41:6 48:18 55:8 grade 3:11 gray 50:2,5,12 great 32:8
H	
	h 3:7 half 8:13,18,20 hampton 1:10 2:3 4:10 5:2 6:13 58:10 59:2 hand 47:10 harm 18:21 19:1 harvard 48:1,6 haskell 49:10 hayhurst 54:2,6 headquarters 28:21 29:11,12 health 48:2,6 49:20,20,24,25 50:15 52:11 54:7 55:10 held 6:16 48:14 51:16 helping 17:2 hereinabove 56:5 hereto 56:4 57:13 hereunto 60:6

hervey 52:15 hes 49:18 52:5 53:7,8 54:13 hesitating 40:6 hired 26:25 history 34:20 hmm 8:15,21 11:16 16:11 18:4 21:13 22:2,11 22:17 23:23 28:3 honest 23:17,22 hours 5:11 8:5,16 humans 17:16,16,19 18:24 33:10 husch 5:11,19,21 6:16 57:4 59:18 hydrocarbons 3:16 47:18 hygiene 3:15 47:21 49:19,24 50:20,24 52:20 54:20,25 55:3,14 hygienist 52:6	52:6 54:6,20,25 55:3,10,14 industries 50:8,21,25 51:2 52:21 industry 51:3,15 52:22 information 22:22 23:11 24:11 25:12 54:16 55:9,15 initial 40:6 instigator 21:11 institute 49:19,24 instituted 40:25 institution 21:11 42:1 interested 57:13 internal 9:18 28:11,16 interpreting 15:5 involved 37:25 45:24 isnt 8:18,21 16:14 17:8 28:3 38:10 39:3 43:19 44:5,10,15 ive 20:10 23:21 43:15
I	
ibt 24:12 25:8,11 26:1,24,25 id 10:9 37:15,15 42:22 idea 14:15 identification 9:11 47:5 identified 48:21 49:4,6 50:6 52:5 53:7,8 54:13,16 identify 45:12,17 54:12 ii 2:14 5:10 6:11 ill 19:8 24:8 36:9 37:22 39:25 44:19 illegal 22:9 illinois 5:12 35:16,21 36:4,16 39:19,22 42:7 42:14 43:19,23 im 7:16 11:10 12:16 15:19 16:3,13,18,22 24:23 27:10 29:18 30:20 33:14 34:7 37:2,8 38:6,8 40:6,14 42:20,24 43:18 44:24 45:16 47:10,16 48:2 50:1 52:5 53:25 immediately 8:9 imparted 54:17 improper 22:19 26:6 includes 28:17 48:11,13 including 25:1 indicate 54:5 indication 19:23,24 20:2,3 23:21 indications 18:22 indicted 25:25 26:6,8 individually 1:19 4:19 58:18 individuals 54:15 55:7 industrial 3:15 13:20 22:1 47:21 49:10,19,23	jimmy 13:1 joseph 22:3,5,12 journal 3:15 47:20 54:20,21,24 55:14 journals 55:3 judging 50:10 judgment 31:10 judicial 1:1,9,17 4:1,9,17 58:8,16 jury 26:19
J	
K	
	kaiser 51:6,6,10 kaley 2:12 3:3 5:10 6:3,11 7:4 9:2,3,13,13 15:25 16:2 22:25 23:3 29:20 47:8,11 48:8 51:22 52:14 53:3 55:2,21 56:1,8 57:6 59:10 keep 14:6 kelly 52:25 kept 8:11 key 28:10 kinds 11:23 17:13 18:3 19:5 knew 18:16,18,21 36:16,25 38:1,6,11,17,22 39:4,16,22 42:14 44:25 45:4 48:19 know 9:21 12:10 13:8,10,11 14:10 23:7,20 24:2,3,4 25:15,20,23 26:11 27:3 28:8,13 29:10,12,21 34:18 35:17 36:13,19,23 38:15 38:16,25 39:11 40:13,15,17,23 41:24,25 42:8,12,24 43:23 44:6,11,17 45:8 46:10 49:15

knowing 18:25 knowledge 55:2 known 39:13 L l 54:12 labels 40:23 labor 50:20,25 53:21 laboratories 22:1 laboratory 21:24 22:2 24:12 49:10,11 lack 26:3,3 lakes 32:9 law 5:11,16,19,21 57:4 lawful 7:5 laws 14:13 left 25:8 legal 5:24 11:20 14:18 23:1 34:20 letter 28:23,24,24 letters 28:17 29:4 license 2:23,24 limit 41:14 lines 23:6 list 48:21 listed 28:10 55:7 listen 24:8 literature 18:2 34:2 little 9:4 14:8 liver 30:13,19 livingston 1:10 2:3 4:10 5:2 6:13 58:10 59:2 llp 5:11,19,22 57:4 59:18 long 16:21 look 53:15 54:11 looked 9:2 27:14,17,21 28:4 31:24 looking 18:2 lost 37:8 lot 8:24 14:9 louis 1:2,9,17 4:2,9,17 5:12,19,22 6:17 53:4 57:4 58:9,16 59:19 lymphoma 33:13,17 34:1,5 M m 2:22 3:1 5:11,11,12,16 6:4,10 46:23 55:23 56:22 57:2,19 59:9 60:9 maggie 1:10 2:3 4:10 5:2 58:10 59:2 mail 22:20,22 29:4,5,5,8 mailing 29:8	mails 22:10 23:12 26:7 maker 10:20,23 11:6,17 38:23 making 7:13,23 8:11 24:22 34:23 37:11 38:18 38:23 39:20 manager 51:8 manfred 50:17 manner 10:10 manners 10:10 manufacture 45:25 manufacturer 46:6 manufacturing 39:9 45:10,25 mark 1:19 4:19 9:8 58:18 marked 9:11,13 47:4,10 48:4 49:2 52:3,14 marketed 9:25 10:15 marketing 34:22 massachusetts 50:20,25 51:3 52:20,22 materials 40:24 51:20 matter 6:11 24:17 matters 8:10 mean 8:5 11:2,13 14:11 16:4 33:23 39:7,14 39:15 means 15:21 medical 48:2 54:14 medicine 54:7 meeker 53:16,18,23 memorized 30:16 mentioned 56:5 mid 29:12 mike 5:23 miller 3:5 5:19 6:21,21 7:16 11:1,9,19 13:6 13:17,25 14:16 15:1,7,11,19 16:15,22 17:1 17:11 18:11,17 19:4,13,20 20:1,9,15 22:8 22:23 23:13,18,25 24:6,8,21 25:1,5,13,18,21 26:2 28:7 29:18 30:4,11,24 31:8 32:21 33:4 33:18 34:7,9,16 35:22 36:5,9,20 37:4,12 38:3,13 39:6,25 40:11 41:8 42:9,16 43:4,7 43:11,25 44:8,13,19 45:6,13 47:7 55:21 millers 3:22 mind 31:19 49:22 53:22 missouri 1:1,8,16 2:1 4:1,8,16 5:1,12,13,19 5:22 6:17 44:6 57:5 58:8,15 59:1,19 mixture 51:19 money 8:11,23 monitoring 36:2 monsanto 1:6,14,23 2:7,13 4:6,14,23 5:6 6:12
---	---

6:13,14 7:12,17,19,20 9:21,24 10:5,13,14,20
10:22 11:6,16 12:5,8,11,14,23 13:3,12,15,23
14:23 15:9,17 16:7,11,17 17:9 18:4,13,16
18:20,25 19:2,10,18 20:17,20,24 21:3,7,19
23:24 24:14,18 25:8,8 26:9,9,13,13,16,25
27:6,17,21 28:10,11,16,21 29:10,11 30:2,10
30:18,21 31:3,6,12,21 32:11,17 33:11,22
34:14,23 35:10 36:3,18 37:1,22,24 38:1,6,8
38:12,16 39:5,20,21,23 42:8,15 43:24 44:7
44:12,18 45:5,9 53:12 56:20 58:6,13,22
59:6

monsantorelated 7:22 8:2,9,10,22

monsantos 9:18 10:7 13:5 14:21 21:14 24:5
29:16 32:19 33:2,6,15 34:13,21 46:5 51:24

month 7:13,25

mooyman 1:11 2:4 4:11 5:3 58:10 59:3

morning 47:8,9 48:18

moved 29:10,11

N

n 3:1,1,1,7 5:15,17,24 59:11,15

name 6:18 13:1 22:3 28:23 29:4 32:7 40:3

named 45:15,20

names 46:3

naphthalenes 51:19

national 49:19,24

nature 23:1

ne 29:5

nearly 43:23 44:6,11,17 45:4

necessarily 16:4

negative 28:1

negligence 14:13

neither 57:11

never 23:21

new 44:16

newly 42:3

newspapers 32:17

nicholas 1:18 4:18 58:17

nishida 1:18 4:18 6:12 58:17

nonhodgkins 33:13,16 34:1,5

normal 60:3

northeast 29:5

northwest 29:6

nos 6:14

notary 56:15

notes 57:9

notice 1:6,23 4:6,23 13:7 14:17 17:12 22:24

29:19 30:25 32:22 33:19 34:10,17 35:23

36:21 37:6 38:4 40:2 41:10 42:10 44:1 58:6

58:22

november 2:18 5:10 56:3,22 57:15 59:10

60:7

number 27:25 28:22 29:2,2 30:16 46:8

numbers 28:17

numeric 29:2

nw 29:6

O

o 3:1,1,7

oath 7:2,7

object 11:1,9,19 13:6,17,25 14:16 15:1,11,19

16:15,19,20 17:11 18:11,17 19:4,8,13,20

20:1,9,15 22:8,23 23:13,18,25 24:6,8 25:13

25:18 26:2 28:7 29:18 30:4,24 31:8 32:21

33:18 34:7,9,16 35:22 36:5,9,20 37:4,13

38:3,13 39:6,25 40:11 41:8 42:9,16 43:4,11

43:25 44:19 45:6,13

objection 30:11 33:4 40:1 44:8

objections 13:18 16:23 30:5 42:17 44:8,13,20

observed 19:6

occupational 41:15 50:7,14,19,24 52:6,10,19
53:9

occurred 40:10

oettingen 49:6,8,13

offices 5:11 57:4

official 50:23

officials 39:18,19,21

oh 7:18,20 17:7 22:21

ohio 54:8

okay 7:21 9:8,17 17:7 18:25 20:13 21:7 25:6

28:12,15 29:25 32:1,25 34:3,12 37:23 39:2

41:12 42:19,21 43:18 49:17 50:12

old 42:1

operating 45:15,20,23 46:2,5

opinion 33:20

opposed 16:21 17:4

organizations 48:19

original 3:19,21 37:19 52:1 59:10

osha 41:12,14,20 42:2,4

outside 13:7 27:21 40:12 44:1

overly 43:7,12 oversimplification 32:23 33:1 P p 5:15,15,17 59:11,15 page 48:25 52:3,13 53:3,8,15 54:1,11 paid 26:16 60:2,3 paper 31:20 46:14 part 7:6 14:21 27:5 29:11 particular 29:3 46:1 parties 57:12,13 parts 11:11,14 patterns 11:25 paul 5:17 24:10 25:7 59:11,15 pcb 31:24 pcbs 3:9,11 10:7,14,14,15 12:6,9,12,15,19 13:4,5,16,24 14:24 15:10 16:11 17:10 18:4 18:16,19,21,22 19:1,2,11 20:18,21,25 21:4 21:14,20 23:15,17,22 27:1,6,11,15,18,22 28:1,4,6 29:15,16 30:1,3,10,23 31:6,13 32:8 32:11,18,19 33:2,7,8,10,12,16,25 34:5,15,22 34:24 35:11 36:17 37:1,11 38:1,12,18,23,23 39:4,12,13,20,23 40:5,9 41:1,3,7,16,20 42:8 42:15 43:23 44:6,12,18 45:5 48:20 50:9 51:18,24 52:22 55:10 people 17:23 18:21 19:1 21:14 27:11,14,21,24 31:14 32:12,13,18,20 33:3,8,9 39:12 45:15 45:17,24 46:19 percent 13:4 period 10:21 26:25 50:9 51:4,16 periods 10:19 personnel 28:11 pfizer 2:7 5:6 59:6 pharmacia 2:7 5:6 59:6 phonetic 13:2 physician 48:1 53:10 pick 12:22 40:22 piece 46:14 place 29:1 plaintiff 1:4 4:4 58:3 plaintiffs 1:12,21 2:5,17 3:8,10,19 4:12,21 5:4,10,16 6:2,20 7:6 9:10 58:11,20 59:4,13 plant 36:4,4,7 plaza 5:12,19,22 57:4 59:18 please 6:18 7:1 28:18,20	polychlorinated 51:2,15,19 position 29:16 33:2,15 possible 3:16 42:13 47:16 possibly 32:16 potential 12:1 18:18 potentially 11:20 predate 41:16 prefer 42:22,23 premiere 55:3,5 prepared 48:5 present 5:23 54:18 presentations 54:19 presented 31:20 48:15 press 32:16 presume 49:15 previous 37:16 previously 9:2,17 primarily 30:19 primary 11:6,18 13:15,23 14:3,11,23 15:4,10 15:17 16:4,6 30:12 primitive 17:13 prior 40:9,24 41:5,23 prison 22:5,7,13 26:22 probably 7:25 11:15 40:8 44:3 45:21 46:13 problem 3:15 47:15,16 procedure 46:6 procedures 45:16,20,23 46:3 proceeding 32:4 50:23 proceedings 32:5 48:14,22 49:4,14,22 50:3 50:13 51:11,16 52:9 53:23 54:9,17,21 57:9 process 45:25 46:17,20 produced 5:10 7:5 12:19 33:9 producer 12:5,9,12,15,22 product 15:21 production 34:21 products 9:24 10:24,24,25 11:7,8,8,18,24 12:1 15:18 professional 5:13 57:3 proofread 57:8 protection 34:24 35:2,4,8,12 provided 55:11 proviso 14:7 41:21 public 10:8 31:12 32:10 33:12 48:2,6 49:20 49:24 56:15 publication 47:22
---	--

published 31:20 47:19,20 54:22
putting 14:6 22:21 23:10

Q

question 11:20 13:7 14:1,17 15:2,12,20 16:19
 17:4 23:19 24:1,9,22 25:18 29:19,24 30:7,8
 31:6 32:22 34:17 36:8,21 37:8,19 39:1,2
 40:16 42:23,24 43:9 44:20 45:7 46:9 49:21
questions 15:23 22:24 25:2 37:12,17 42:19
 43:2,15 47:3 48:17 55:17,19
quotes 32:16

R

r 5:15 49:17,17 51:6 54:2
ran 22:2 48:13
read 9:5,6 47:14 55:21 56:2
reading 18:2
really 14:10 33:23 40:21
reask 37:22
reason 18:7,10,14 19:16 23:20 31:3
reasons 39:16
rec 45:23
recall 7:14 9:20 32:6 45:22 53:10
received 54:16 55:14
recollection 22:15 45:24
recommendations 41:1
record 6:9,19 24:23 25:2 46:22,25 55:23
refer 43:12
reference 46:14,15 52:15 53:4,16 54:2,5
referenced 9:4
references 46:7,11
referring 28:13
refined 9:6
reflection 30:22
regard 32:11 33:12 39:9,10 40:13,14 41:1
regarding 3:15 31:13 48:18
registered 5:13 57:3
regulate 40:4 41:7,9,20
regulated 35:19
regulations 37:25 40:8,25 41:23
regulatory 34:20 35:19 36:2,25
related 17:24 18:23 19:6 57:11
relative 57:12
releases 32:16
remember 32:2,4 37:19 46:8
remind 7:1

rephrase 43:8
reported 28:1 30:12,16 31:4 32:5 57:8
reporter 3:20,22 5:13,13,13 6:5 7:1,7 56:22
 57:1,3,3,3 58:1
reports 22:22 23:9 46:18
representative 2:13 51:12
represented 5:16,18,21
representing 5:24
required 40:24
research 26:9
reserved 6:7 55:24
respect 11:21 20:18 36:6 41:3,8 43:19 48:12
responding 7:6 17:6
response 17:5
responsibility 10:23 11:7,18,21 13:16,24 14:4
 14:11,24 15:4,10,17,20 16:5,6 34:14
responsible 16:8,9 20:5
responsibly 9:25
responsive 17:4
responsiveness 19:9
results 17:3 22:18 28:2 31:3
retained 3:20,21
retire 7:20
retired 7:12,21
retiring 8:9
reverse 30:7
reviewed 31:21,22
right 8:13 15:7 16:25 17:10 18:10 20:14
 21:21 22:22 23:12,14 24:15,18 26:22 31:5
 31:17 32:20 36:18 37:15 38:12 42:4 48:22
 55:13,20
robert 2:12 3:3 5:9 6:3,11 7:4 56:1,8 57:6
 59:10
roughly 8:17,18
royal 53:16
rpr 2:22 56:22 57:19 60:9
russell 1:11 2:4 4:11 5:3 58:10 59:3
rutter 5:21 6:23,23

S

s 3:7,9,11 5:15,24 22:10,20 26:7 40:7 41:21
 49:20,24 50:2,5
sales 3:9,11
sanders 6:17
sauget 36:4

sayers 49:17,22 saying 17:20 23:16 44:24 says 7:8 49:9,18 51:7 school 48:2,2,6 schwartz 53:4,6 scientist 26:14 scope 13:7 14:17 17:12 22:24 29:19 30:25 31:9 32:22 33:19 34:10,17 35:23 36:21 37:6 38:4,14 40:1,12 41:9 42:10 44:1 second 29:1 see 16:12 17:9,21 19:2 27:21 53:8 54:2 seen 23:21 46:5 sell 11:7 selling 45:10 sells 10:24 september 3:14 47:24 service 49:20,25 set 60:6 settings 55:11 shipment 40:9,24 shipping 41:22 short 46:24 shorthand 5:13 6:4 57:2 shouldnt 19:25 20:3 show 39:25 shown 17:15,23 shows 34:4 sic 48:5 sign 55:21 signature 6:6 55:24 56:3 60:6 similar 22:20 32:9 sir 7:12 8:21 9:20,21 14:21 17:8 19:10,25 22:7 23:7 28:3 34:12 38:10 43:18 47:2 sit 32:2 41:12,25 45:22 46:18 six 46:11 slack 12:23 small 12:21 sold 10:8 11:18 13:16,24 14:24 15:10,18 sole 12:5,8,11,14 solutia 2:7 5:6 7:17,22 59:6 sorry 7:16 12:16 30:20 34:8 37:9 40:14 47:16 48:3 52:5 sort 32:15 sounds 23:14 specifically 51:21	speculate 22:25 speculation 14:19 25:14,19 26:4 36:22 37:5 38:5 42:11 44:2 speech 14:8 16:21 springs 31:19 st 1:2,9,17 4:2,9,17 5:12,17,19,22 6:17 57:4 58:9,16 59:11,15,19 staff 48:1 standard 45:15,20 46:2,5 standards 9:18 14:22 34:13,20 started 37:17,20 40:18 state 6:18 35:15,18 36:16 39:19,19,21,22 42:7 42:14,24 43:19,22 44:5,11,16,16,17,25 45:4 50:7,14 52:7,10,20,21 53:20,24 54:7 statement 13:3 24:22 32:24 58:1 statements 31:12,15,18 32:10,15 33:12 states 2:1 5:1 12:6,9,12,15,19 13:4 38:11,17 38:24 39:20 44:17 59:1 status 31:22,24 step 41:2 stewart 3:4 5:16,17 6:20,20 7:11,19,21 9:12 11:4,13 12:4 13:11,22 14:6,21 15:16 16:1 16:20,24 17:7,8,20 18:15,20 19:8,10,18,24 20:5,13,17 22:11 23:4,16,23 24:4,10,25 25:4,6,7,16,25 26:8 28:9 29:23 30:9,18 31:5 31:11 32:25 33:11 34:3,12,19 35:25 36:8,14 36:24 37:10,14 38:8,16 39:8 40:3,17 41:18 42:13,19 43:5,8,14 44:4,10,15,22 45:9,18 46:21 47:2 55:18 59:11,15 stewarts 3:20 stipulated 6:1 street 5:17 59:11,15 strike 9:22 38:9 44:25 studies 27:25 30:1,12,22 48:13 study 30:17,17 33:8 studying 30:1 subject 11:22 13:8 15:24 23:2 29:20 31:1 33:20 37:7 subscribed 56:12 substantial 51:23 55:9 suite 5:12,17,19,22,24 57:4 59:11,15,19 summary 48:13 support 5:24 suppose 18:12 sure 11:4,10 16:18 29:12 37:21 49:16 50:1
--	--

53:25 survivor 1:19 4:19 58:18 suspect 32:15 swann 53:12 sworn 5:10 7:5 57:7 systemic 3:16 47:16,17	26:25 27:4,5 31:25 35:10 39:12 47:3 48:19 50:9 51:4,16 52:18,23 53:19 55:4 57:9 tisa 5:23 title 32:1 47:14,15 today 14:9 33:22 42:20 46:19 told 8:15 topic 28:9 34:13,19 total 59:14,18 toxic 18:16 19:1 toxicities 19:5 toxicity 18:18 48:12 toxicologist 26:15 toxicology 3:15 31:25 47:21 49:10,11 54:21 train 37:8 transcribed 6:5 transcript 3:20,22 56:2,4 57:8,9 60:1 transcription 57:8 translated 57:8 transportation 40:8,15 41:22 tried 12:22 45:9 triggered 17:17 troubles 23:1 true 8:11,21,25 9:15,16 12:6,9,17 16:14 17:8 18:6,12 19:3 24:12 26:10,14,17 27:2,15,20 28:3 36:4,13 38:10,21 39:3 42:8,21,21 43:3 43:10,17,17,19 44:3,5,7,10,12,15,23 45:2,8 53:11,13 56:4 57:9 try 29:25 45:11 trying 16:3 tucker 1:20 4:20 58:19 turn 28:9 34:19 48:25 52:13 53:3 54:1 twentyfirst 1:1,9,17 4:1,9,17 58:8,16 two 29:3 37:12,16 39:20 type 29:17 30:3 31:13 32:12 types 30:9,14 typewriting 6:6 typically 8:7 30:13
T	U
t 3:1,7 take 10:23 11:6,18 13:15,23 15:20 46:21 taken 2:17 6:4 9:14 15:9,17 46:24 56:3,22 57:9,12 59:10 talking 9:18 36:6 46:11 taxed 59:13,17 tell 13:14 31:17 33:1 52:17 telling 11:16 43:1 term 11:21 16:5 terms 8:5 test 16:11 17:14 18:14 20:6,20,24 21:3,8 22:17,22 23:9 tested 9:25 10:7,9,10 17:9,18,21 18:4 19:2,11 21:14,20 testimony 24:23 56:5 testing 10:11 16:17,18 28:1 29:14 53:14 tests 17:13,14,16 18:3,8 19:17,19,22,23,25 20:10,16 21:11,23 23:11,22 26:1 27:8 31:2 texas 5:17,24 12:22 59:11,15 thank 43:21 thats 8:25 9:16,20 12:17,18 13:13 16:24 17:4 18:12 20:19,23 21:2 24:16,19 27:3,20 28:8 28:23 29:13 30:7 31:10 32:23,24 35:13 36:12,13 37:12 38:19 42:6,22 43:11,17 44:3 45:8 53:25 55:16 theres 14:19 25:21 31:15 33:24 37:5 40:2 42:10 44:2 46:13 53:4,15 54:1 things 23:17 25:2 48:19 think 11:23 13:21 14:4 15:22 22:12,15 25:3 25:16 26:5,6 31:10 32:23,24 36:11,12 38:21 42:13,18,23 43:15 thoroughly 9:25 10:7 thought 8:15 threshold 41:14 throat 30:15 time 8:3 10:4,12,14,18,21 11:12,14,25 13:20 14:7 15:8,14 16:6,7,10 18:3,23 19:6 26:12	u 3:9,11 5:24 22:10,20 26:7 40:7 41:21 49:20 49:24 uhhuh 24:14,20,21,24 35:14 44:22 ultimate 10:23 11:3 12:2 understand 15:22,24 16:4,19 18:13 41:18 51:22

understanding 10:11 12:18,21 13:20 14:2 16:9 17:25 18:1 26:18,21 31:22 46:18 51:10 52:8 understandings 10:18 11:24 15:13 understood 11:11 12:1 13:21 14:4 15:4 16:5 46:16 undertook 16:8 union 44:25 45:4 united 2:1 5:1 12:6,9,12,15,19 13:4 38:11,17 38:24 44:17 59:1 use 11:25 12:3 22:9,19 26:6 usually 45:24	words 33:5 work 8:19,24 25:8 45:19 worked 8:1,13,16 25:11 working 8:3 world 28:21 29:10,11 wright 24:10 25:7 written 46:19 wrongfully 25:16
V	
vague 15:23 16:19,21 17:4 36:9 38:14 values 41:14 vandustries 13:1 variety 41:15 various 28:1 39:16 55:8 videographer 5:23 6:9,25 46:22,25 55:22 videotaped 2:12 5:9 6:10 view 32:17,19 volume 2:14 5:10 6:11 von 49:6,8,13 vosburgh 54:12 vs 1:5,13,22 2:6 4:5,13,22 5:5 6:12,12,14 56:19 58:4,12,21 59:5	x 3:1,1,7,7
Y	
yeah 25:5 51:25 year 7:13,23 8:2 york 44:16 51:8 youre 15:5 17:20 21:19 23:16 24:22 25:1 35:18,25 41:5,19 43:22 46:11 47:11	Y
Z	
0	
w 49:6 want 9:21 17:2 34:19 wanted 48:20 warren 52:2,8 washington 49:25 wasnt 22:17 24:4 39:1 way 10:15 16:24 17:1,3 23:20 39:23 week 8:6,16 welcome 43:22 went 22:13 26:22 weve 47:10 48:4 49:2 52:3,13 54:15 whats 32:1 42:20 white 1:18,19 4:18,19 6:12 58:17,18 widely 54:24 wireworks 51:8 witness 3:3 6:6,7 7:1,18 14:20 16:25 34:8 55:20,25 56:1 57:7,10	00 5:11 6:10 000 7:25 084004554 2:23 09 47:1 09slcc01964 1:22 4:22 6:15 58:21 09slcc01972 1:5 4:5 6:15 58:4
W	
1	
	1 46:9 10 5:11 9:3,15 47:1 55:23 100 5:24 1039 2:24 10slcc03428 1:13 4:13 6:15 58:12 13 1:22 4:22 7:25 58:21 14 7:25 17 1:13 4:13 58:13 18 2:18 5:10 56:3,22 59:10 190 5:12,19,22 57:4 59:18 1930s 9:23 10:5,21 11:4 12:5 13:14 14:13,22 14:24 16:12 17:9,21 18:6,15,20 19:2,12,19 20:6,11,18 34:23 35:20 37:1,11,24 38:1,10 38:18 39:4 42:7,15 43:24 44:4,11,16 45:3 51:24 52:1 54:25 1937 3:14 47:24

1940s 9:23 10:6 11:5 12:8 13:22 14:4 15:9 20:20 35:1 44:23 1950s 9:23 10:6 11:5 12:11 15:16 20:24 29:12 35:4 44:23 1960s 9:24 10:6 11:5,15,17 21:3,7 35:7 44:23 1968 21:12 1970s 10:6 11:5 12:14,17,20 14:12 1971 41:13,20 42:1 1973 41:4,5 1980 31:22 1980s 14:12 1983 31:24 1990s 14:12	6 600 5:12,19,22 57:4 59:19 60s 10:22 35:11,15,20 36:1,16 42:5 45:3 63105 5:12,20,22 57:5 59:19
2 20 5:11 8:16 55:23 2003 7:13,23 8:2 2011 2:18 5:10 56:3,13,22 57:15 59:10 60:7 25 8:16,20 57:15 60:7 2750 5:17 59:11,15	7 7 1:5 3:4 4:5 58:5 70s 10:22 12:16 75201 5:17 59:11,15 75206 5:24
3 300 48:25 305 52:3 306 52:13 308 53:3,15 30s 35:11,14 36:1,15 42:4 310 54:1,11 32 3:8,19 9:10,13 325 5:17 59:11,15 33 3:10,19 9:10,13 34 3:14,21 47:4,11 49:2 52:4,14	8
4 4 46:10,12,15 48:5 40 8:7 40s 10:21 35:11,14,20 36:1,15 42:5 45:3 411cv01662 2:6 5:5 59:5 47 3:5,14	9 9 3:8,10 5:11 6:10 46:23 99 13:4
5 5 9:2,15 50s 10:22 35:11,15,20 36:1,15 42:5 45:3 53 46:23 5910 5:24	