

EA02-025

FORD 10/27/03

APPENDIX N

BOOK 41

PART 2 OF 6

RESUME

NAME: Mark E. Hoffman
ADDRESS: 3 Parklane Blvd, Suite 528 West, Dearborn, Michigan 48126

EDUCATION:

- College - - BSEE University of Detroit-Mercy, Detroit, MI - 1978
- MS Business - Madonna University, Livonia, MI - 1988

Ford Engineering Education Program-Various courses to update & expand technical knowledge and skills

Outside Training:

- "Electrical Fires in Components", Instructor, Midwestern Ohio Fire Investigator's Seminar, in cooperation with the State Fire Marshal's Office, Sydney, Ohio, April 6-7, 2002
- "Electrical Fires in Components", Instructor, International Association of Arson Investigators (IAAI) Seminar, Myrtle Beach, SC, November 2001
- "Electrical Fires in Components", Instructor, International Association of Arson Investigators (IAAI) Seminar, Louisville, Kentucky, August 2001
- "Advanced Fire Investigation", State Fire School of Ohio, Bowling Green Univ, 38 Hours - May 2001
- "Electrical System Fundamentals", Dearborn, MI, Instructor, 12 Hours - May 2001
- "Specialized Traffic Accident Reconstruction", Northwestern Univ, Dearborn, MI - 40 Hrs - Feb. 2000
- "Invest'n Gas & Elec Appliance Fires", Fire Findings, Inc - Benton Harbor, MI - 18 Hours - Nov. 1999
- Alabama & Georgia Arson Investigators Association - Fall Seminar - 12 Hours - September 1999
- NFPA Fire Investigation Video Seminar - Dearborn, Michigan - 16 Hours - July 1999
- 35th Annual Arson Seminar - Insurance & Safety Fire Commission of Georgia - 20 Hours - July 1999

OTHER:

- Member of the Society of Automotive Engineers (SAE)
Former Chairperson of SAE Technical Standards Committee on Electrical Power Systems Standards
- Member of the International Association of Arson Investigators (IAAI)
- Past member of the Institute of Electrical & Electronics Engineers (IEEE)
- Past member of the Society of Plastics Engineers (SPE)
- Past member of the Society of Manufacturing Engineers (SME)

EMPLOYMENT EXPERIENCE AT FORD MOTOR COMPANY (Ford Service Date: 1/30/1984):

- Design Analysis Engineer, Design Analysis, Research & Vehicle Technology
March, 1999 to present (analysis of vehicles, systems, and components)
- Supervisor, Electrical/Electronic Systems CAE Truck Applications, Electrical/Electronic Systems Engineering (EESE), Research & Vehicle Technology
December 1994 to February 1999 (Plan and direct all Computer Aided Engineering (CAE) analyses for the electrical system designs of all Ford Truck programs)

RESUME

- Supervisor, E/E Cross Vehicle Systems Engineering Section, EESE
November 1992 to November 1994 (Plan and direct all analyses and specifications for E/E systems technologies which are used across multiple vehicle lines or are shared across multiple subsystems)

EMPLOYMENT EXPERIENCE AT FORD MOTOR COMPANY (Continued):

- Supervisor, E/E Systems Competitive Analysis Section, EESE
December 1990 to October 1992 (Plan and direct all analyses, vehicle teardowns and reports to management of the technical content of competitive E/E systems, components, and technologies)
- Supervisor, E/E Systems Technical Planning Section, EESE
December 1988 to November 1990 (Plan and direct all analyses and reports to management of the technical plans for E/E systems, components, and technologies)
- Product Design Engineer - Instrumentation, Electrical & Electronics Division
November 1988 to November 1988 (Design, specify, test, and release for production analog instruments for use in North American and European Ford vehicles)
- Manufacturing Process Engineer - Senior, A & B, Saline Plastics & Instrumentation Plant, Plastics Products Division
January 1984 to October 1988 also June 1978 to December 1979 (Design, specify, contract, test, build, and install all tooling and facilities required to produce analog instrumentation components)
- Plastics Products Development Engineer - B, Plastics Development Center, Plastics Products Division
January 1980 to January 1981 (Develop and test advanced plastics components and assemblies for possible use in future products)

ADDITIONAL EXPERIENCE:

- February 1981 to January 1984 - Management positions in electrical engineering for small design and build shops, supplying assembly and test equipment to the automotive industry.

PUBLICATIONS:

- SAE Standard #J1416 - "Generator Terminal Labeling", 5/2001
- SAE Standard #J56 - "Road Vehicles-Alternators with Regulators-Test Methods and General Requirements", last revision June 1999
- SAE Information Report #J2232 - "Vehicle System Voltage-Initial Recommendations", last revision June 1999
- SAE Standard #J831 - "Electrical Definitions", last revision March 1998
- Sheran Alles, Curtis Swick, Mark Hoffman, Syed Mahmud, Feng Lin, "The Hardware Design of a Real-Time HITL for Traction Assist Simulation", IEEE Transactions on Vehicular Technology, Vol. 44, Aug. 1995, pp:888-892
- Sheran Alles, Curtis Swick, Mark Hoffman, Syed Mahmud, Feng Lin, "A Real Time Hardware-In-The-Loop Vehicle Simulator For Traction-Assist", (Expanded version) The International Journal of Vehicle Design, Vol.6 1994, pp: 597-626
- "The Relationship of Labor and Capital Usage in the American Automobile Industry", as part of the requirements for the Masters Degree in Administration, Madonna College, Livonia, Mi, 1988

TRIAL EXPERIENCE OF MARK HOFFMAN

TESTIMONY

1. July 2000 -- Montgomery County Circuit Court, Mt. Sterling, Kentucky, [REDACTED] vs. Ford
2. June, 2000- U.S. District Court Florence Division, Florence, South Carolina, Bankers Insurance as subrogee of [REDACTED], Inc. vs. Ford (video)
3. February, 2002- IN MEDIATION HEARING - Superior Court of the State of Arizona in and for the County of Maricopa, Allstate Insurance v. Don Sanderson Ford, Penske Truck Leasing, Ryder Enterprises & Ford Motor Company

DEPOSITIONS

1. June 1999 -- Hidalgo County Circuit Court, Edinburg, Texas, [REDACTED] vs. Ford
2. October 1999 -- Hidalgo County Circuit Court, Edinburg, Texas, [REDACTED] vs. Ford (2nd deposition, same case)
3. October 1999 -- Hidalgo County Circuit Court, Edinburg, Texas, [REDACTED] vs. Ford (3rd deposition, same case)
4. June 2000- U.S. District Court, Western District of Louisiana, State Farm Insurance & [REDACTED] vs. Ford (also see "Expert Report" section, below)
5. June 2000- U.S. District Court Florence Division, Florence, South Carolina, Bankers Insurance as subrogee of [REDACTED] vs. Ford (video)
6. August 2000- Supreme Court of the State of New York [REDACTED] vs. Colton Auto & RV & Ford
7. February 2001- Lapeer County Circuit Court, Lapeer, Michigan, Frankenmuth Mutual Insurance Company, Subrogee of [REDACTED] and [REDACTED], et al, vs. Ford et al
8. May 2001- Lapeer County Circuit Court, Lapeer, Michigan, Frankenmuth Mutual Insurance Company, Subrogee of [REDACTED] and [REDACTED], et al, vs. Ford et al
9. October 2001- Superior Court of the State of California, County of Los Angeles, Los Angeles Judicial District, Royal Indemnity Company, Inc vs. Ford Motor Company, White Corporation, Blue Corporation, Black Company, Red Company and Does 1 through 20
10. January, 2002- Supreme Court of the State of New York, County of Richmond, [REDACTED] and [REDACTED] v. Ford Motor Company

TRIAL EXPERIENCE OF MARK HOFFMAN

11. February, 2002- Superior Court of the State of Arizona in and for the County of Maricopa, Allstate Insurance v. Don Sanderson Ford, Penske Truck Leasing, Ryder Enterprises & Ford Motor Company
12. April, 2002- Circuit Court of Garland County, Arkansas [REDACTED] v. Ford Motor Company and Resort Motors, Inc, d/b/a Resort Ford
13. July 2002- Superior Court of the State of Arizona in and for the County of Pima, [REDACTED] & [REDACTED] v. Ford Motor Co, et al

EXPERT REPORTS

1. May 2000- 105th Judicial District, Kleberg County, Texas, [REDACTED] vs. Ford
2. June 2000- U.S. District Court, Western District of Louisiana, State Farm Insurance & [REDACTED] vs. Ford (Vehicle Inspection Report)
3. November 2000- 22nd Judicial District Court for the Parish of St. Tammany, State of Louisiana, Hanover American Insurance as subrogee of [REDACTED] vs. Ford
4. January 2001- District Court of Oklahoma County, Oklahoma, [REDACTED] vs. Ford
5. February 2001- United States District Court for the Southern District of New York, Travelers Indemnity Company of Illinois A/S/O [REDACTED] vs. Honey Dipper Waste Management Inc, TruckMiles Inc, Hertz Systems Inc and Ford Motor Company
6. October 2001- District Court of Harris County, Texas, Judicial District 164, [REDACTED] and [REDACTED] vs. Ford Motor Company
7. November 2001- U.S. District Court, Western District of Louisiana, State Farm Insurance & [REDACTED] vs. Ford
8. March 2002- 138th Judicial District, Cameron County, Texas, [REDACTED] and [REDACTED] v. Ford Motor Company, Boggus Motor Sales & Brasada Motorplex d/b/a Northside Ford
9. April 2002- U.S. District Court for the District of South Carolina Beaufort Division, [REDACTED] & [REDACTED] v. Ford Motor Company
10. April 2002- County Civil Court, Harris County, Texas, Progressive County Mutual Insurance Company v. Ford Motor Co.

TRIAL EXPERIENCE OF MARK HOFFMAN

11. May 2002- 19th Judicial District Court, Parish of East Baton Rouge, State of Louisiana, State Farm Mutual Automobile Insurance Company & [REDACTED], Ford Motor Co.
12. May 2002- Superior Court of the State of Arizona in and for the County of Pima, [REDACTED] v. Ford Motor Co, et al
13. June 2002- County Civil Court, Harris County, Texas, Agricultural Workers Mutual Insurance Company v. Ford Motor Company

AFFIDAVITS

1. August 1999- 9th Judicial District Court for the Parish of Rapides, State of Louisiana, Allstate Insurance vs. Ford
2. March 2000- 17th District Court, Broward County, Florida [REDACTED] vs. Ford
- 3 thru 5. May 2000 (est) - Hidalgo County Circuit Court, Edinburg, Texas [REDACTED] et al vs. Ford (3 separate affidavits regarding three different vehicles involved in case)
6. June 2000- U.S. District Court Florence Division, Florence, South Carolina, Bankers Insurance as subrogee of [REDACTED], Inc. vs. Ford
7. July 2000- Justices Court in & for Precinct #5, El Paso County, Texas [REDACTED] vs. Serna & Ford
8. July 2000- 32nd Judicial District Court for the Parish of Terrebonne, State of Louisiana, Metlife Auto & Home, as partial subrogee to the rights of/and [REDACTED] v. Ford Motor Co & XYZ Insurance Co.
9. October 2001- United States District Court for the Southern District of New York, Travelers Indemnity Company of Illinois A/SAC [REDACTED] and [REDACTED] vs. Honey Dipper Waste Management Inc, TruckMiles Inc, Hertz Systems Inc and Ford Motor Company
10. October 2001- State Court of Fulton County Georgia [REDACTED] and [REDACTED] v. Ford Motor Co, John Bleakley Ford Inc, Texas Instruments Inc
11. March 2002- Circuit Court of Cullman County, Alabama [REDACTED] v. [REDACTED] of Cullman, Ford Motor Company and Family Security

**Newell Investigative Services, Inc.**

September 24, 2002

Attorney Jim Feeney
Feeney, Kellert, Wiener & Bush
35980 Woodward Avenue
Bloomfield Hills, Michigan 48304-0934

RE: [REDACTED] V. FORD MOTOR COMPANY
NISI No. 2091-032

Dear Mr. Feeney:

This is a report regarding the cause and origin of the fire in this case.

BACKGROUND

This fire loss occurred at [REDACTED] Federal Way, Washington at the residence of [REDACTED] on January 20, 2001 at approximately 10:26 p.m. Reportedly, the fire loss occurred in the garage where a 1993 Lincoln Town Car and a 1996 Chevy Camaro were parked.

Federal Way Fire Department E-63 was the first unit to arrive at the house and observed smoke and flames from approximately one half mile away. The initial flames upon arrival at the structure involved one half of the front of the house in the area of the garage where two automobiles were located. Both the automobiles, garage attic, roof and front side to the second floor were burning. Federal Way Fire Department E-63 did not determine the cause and origin of the fire and turned the investigation over to the fire investigation section. Local investigators from the Federal Way Fire Department conducted a cause and origin investigation but have ruled the fire to be undetermined at this point.

INVESTIGATION

I have reviewed and considered the following materials.

1. Federal Way Department of Public Safety reports including fire report, incident report and witness statements.
2. Photographs from plaintiff and claim file.
3. Copies of x-ray components from Schaefer Engineering by Mark Hoffman.
4. Photographs from Walker Fire Analysis' inspection.
5. Photographs from Mark Hoffman's inspection.
6. Deposition transcript of [REDACTED]
7. Deposition transcript of [REDACTED] and [REDACTED]
8. Deposition transcript of [REDACTED]

September 24, 2002
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After considering and reviewing all the above mentioned materials, it appears that the undercarriage of the Town Car where the fire allegedly occurred was never examined. It is imperative the undercarriage be examined for fire travel and patterns as well as possible causes. Notwithstanding further examination of the undercarriage of the Town Car, the evidence indicates that the fire originated outside of the automobile. The photographs of the carpeting that was reportedly located underneath the Town Car at the time of the fire show very definite burn patterns that indicate the fire moved into the automobile through the left front corner. This is also verified by photographs of the engine compartment involving valve covers and other soft components that reflect fire from underneath softening the components and causing damage from the bottom up. Further, photographs of the area of the speed control deactivation switch show no evidence that the fire originated at that point.

CONCLUSIONS

It is my opinion, there is no evidence the fire originated at the speed control deactivation switch. In fact, photographs and evidence considered thus far indicates the fire originated outside the car or underneath the car and moved into the car. In order to access other possible causes of this fire, it is imperative that the vehicle be lifted and the undercarriage examined in detail.

I anticipate that I will be inspecting the Town Car on October 7 or 8, 2002. I respectfully reserve the right to supplement this report if I discover new or additional information during my inspection or discovery.

Respectfully submitted,



Ralph Newell, President

NEWELL INVESTIGATIVE SERVICES, INC.

RN/gm

EX-102-A 0233



Newell Investigative Services, Inc.
P. O. Box 907088
Gainesville, Georgia 30501
Phone: (770) 297-7138
Fax: (770) 297-9133
E-mail: nsi1@bellsouth.net

TO: Attorney Ray Wubier
COMPANY: Mills, Meyers + Swartling
FAX #: 206-386-7343
NUMBER OF PAGES (INCLUDING COVER SHEET) 3
FROM: Ralph Newell

IF YOU DO NOT RECEIVE ALL OF THE PAGES, CALL THE SENDER AT THE NUMBER SHOWN ABOVE.

MESSAGE: RE: [REDACTED] v. Ford

THIS COMMUNICATION CONTAINS [REDACTED] INFORMATION WHICH IS INTENDED ONLY FOR THE USE OF THE ADDRESSEE. COPYING OR DISTRIBUTION OF THIS COMMUNICATION BY PERSONS OTHER THAN THE ADDRESSEE IS PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY ME IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO ME AT THE ABOVE ADDRESS BY THE U.S. MAIL. THANK YOU.

EM62-823-A 8534

WALTER RALPH NEWELL
470-C Woods Mill Road
Gainesville, Georgia 30501
(770) 297-7138

EMPLOYMENT HISTORY

- July 1982 to present President, Newell Investigative Services, Inc.
P. O. Box 907068, Gainesville, Georgia 30501
Telephone 1-770-297-7138
- October 1981 - July, 1982 Vice President, Kennedy & Kennedy, Inc., Lilburn, Georgia
Fire Investigation
- April 1974 - October 1981 INS Investigation Bureau, Inc., Atlanta, Georgia
Investigator, special agent, supervisor, chief special agent
- December 1968- May 1974 Hall County Sheriff's Department, Gainesville, Georgia
Patrolman, jailer, chief jailer, criminal investigator, rank captain

PROFESSIONAL CERTIFICATION AND QUALIFICATIONS

Certified Fire Investigator, International Association of Arson Investigators

Certified Fire Investigator, National Board on Fire Service Professional Qualifications

Qualified as an expert witness in the determination of origin and cause in both federal and state courts in Alabama, Arkansas, California, South Carolina, North Carolina, Florida, Georgia, Illinois, Indiana, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, New Jersey, Oklahoma, Ohio, Puerto Rico, St. Thomas, Tennessee, Texas, Virginia and West Virginia.

Personally handled and/or supervised the investigation into fires, fraud and claims involving more than 4,000 cases involving structures, heavy equipment, vehicles, airplanes and water craft.

PROFESSIONAL ORGANIZATIONS

International Association of Arson Investigators

National Association of Fire Investigators

Georgia Chapter of International Arson Investigators (Past President, 1988, 1994)

(1st Vice President, 1986-1987, 1993) (2nd Vice President, 1992) (Treasurer, 1985-1986)

(Board member)
 Metro Arson Association (Vice President, 1984, 1985)
 Georgia Chapter IAAI Fire Investigator Certification Committee (Chairman, 1985-1991)
 Committee Member, IAAI
 Independent Investigator, Advisory Committee, (Chairman 2002), (Co-Chairman 2001)
 Transportation & Equipment Fire Investigations Committee, (Chairman 2002)
 National Fire Protection Association, Member
 National Board on Fire Service Professional Qualifications

SPECIALIZED TRAINING

March, 2002	Instructor/Student 2002 Advanced Insurance Seminar Missouri Chapter of the National Society of Professional Insurance Investigators	
February, 2002	Instructor Automotive I Workshop Product Liability Conference	
May, 2000	Vehicle Fire Investigation Georgia Public Safety Training Center	16 hours
1999	Instructor/Student, Fort Payne Fall Seminar Alabama Association of Arson Investigators and Georgia Fire Investigators Association	
1999, 1998, 1997, 1975, 1974	Instructor/Student, Southeastern Seminar International Association of Arson Investigators Georgia State Chapter	
1998, 1997, 1996, 1994, 1993, 1992(2), 1991, 1990, 1988, 1987, 1985(3), 1983(2)	Instructor/Student, Georgia Fire Investigators Association Fire Investigation Training Seminar	
1988-1989, 1986, 1985, 1984, 1981	Instructor/Student State Fire Marshal's Annual Arson Seminar University of Georgia International Association of Arson Investigators Annual Conferences and Seminars:	
2002	Milwaukee, Wisconsin	32.5 hours
1995	Gulfshores, Alabama	20 hours
1991	New Orleans, Louisiana	35 hours
1989&1984	Clearwater Beach, Florida	64 hours
1987	Las Vegas, Nevada	32 hours

1986	Atlanta, Georgia	32 hours
1985	Vancouver, British Columbia	32 hours
1994	Georgia Public Safety Training Center Vehicle Fire Investigation Course	8 hours
1992	Dalton College Center for Continuing Education Arson Investigation Seminar	1.9 hours
1981	Georgia Fire Academy Fire Investigator Short Course	32 hours
1976	Alabama Fire Marshal's School University of Alabama	40 hours
1975	North Carolina Fire Marshal's Institute Greensboro, North Carolina	40 hours
1974	Florida Fire Marshal's School Brevard College, Cocoa, Florida	18 hours
1974	Georgia Police Academy National Arson Conference, Rutgers University	40 hours
	In-Service Training, INS Investigations Bureau, Inc. Atlanta, Georgia	400 hours

PRESENTATIONS

Numerous classroom and practical presentations on arson, theft, and fraud detection and investigation. Presentations given to firemen associations, insurance groups, IAAI, Georgia Chapter IAAI, Georgia Fire Academy. Guest instructor in Florida, South Carolina, Alabama and Michigan Bureau ATF Academy.

EDUCATION

1975 - 1976	Criminal Justice, Brenau College, Gainesville, Georgia (Need 20 credit hours to obtain a bachelor's degree)
1971 - 1975	Associate in Science, Gainesville Junior College
1960	GED Equivalency, U. S. Army
1958 - 1960	East Hall High School, Gainesville, Georgia

MILITARY SERVICE

June, 1960 - July, 1966

U. S. Army, Airborne Infantry

PERSONAL

Date of Birth:

[REDACTED]

Marital Status:

Married,

Children: Two

WALTER RALPH NEWELL

RATES AND CHARGES

Hourly Rate

\$200.00 (Fire/Liability Investigations)

Clerical Rate

\$ 20.00 (Includes all phases of clerical work)

Expenses

Actual (Includes all out-of-pocket expenses involving materials, postage and lab work)

Mileage

\$.42 per mile

Photographs

\$ 1.50 per photo (Only photographs included with report. Copies are \$.75 each.)

Photocopies

\$.10 per copy

DEPOSITION TESTIMONY OF WALTER RALPH NEWELL

- July 9, 2002 [REDACTED] *v. Ford Motor Company*
In The County Civil Court, Harris County, Texas
At Law No. Two (2)
NISI No.: 2001-070
- June 28, 2002 [REDACTED] *v. General Motors*
In The Circuit Court of Morgan County, Alabama
Civil No. CV 00-244
NISI No.: 2002-033
- May 31, 2002 [REDACTED] *v. [REDACTED]*
In The Superior Court for the State of Georgia
County of Upson
Civil Action No.: 99-V-654(JLC)
NISI No.: 2001-021
- May 8, 2002 [REDACTED] *v. Ford Motor Company*
24th Judicial District Court, Parrish of Jefferson
State of Louisiana
No.: 508-791
NISI No.: 1999-101
- March 10, 2002 [REDACTED] *v. Fleetwood Travel Trailers of Texas, Inc.*
20th Judicial Court of Milam County, Texas
Cause No.: 27192
NISI No.: 2000-047
- February 25, 2002 [REDACTED] *v. Pizze Hut of America, Inc. v. Unified Investigations & Sciences, Inc. and Joseph Carmichael*
In The United States District Court for the Middle District of Tennessee
and Circuit Court for Dickson County, Tennessee
No.: 3:99-1171 and No.: 3:01-0369
NISI No.: 2001-079
- February 22, 2002 [REDACTED] *v. General Motors*
In The District Court of the United States
Northern District of Ohio
Eastern Division
Case No.: 1:00 CV 578
NISI No.: 2001-041

January 31, 2002 [REDACTED] v. *General Motors*
In The Circuit Court for Barbour County, Alabama
Eufaula Division
Civil Action No.: CV-00-130
NISI No.: 2001-105

September 20, 2001 [REDACTED] & [REDACTED] v. *Ford Motor Company*
In The United States District Court, Eastern District of Texas
Sherman Division
Civil Action No.: 4:00CV213
NISI No.: 2000-033

September 19, 2001 [REDACTED] v. *Daimler Chrysler*
In The United States District Court For The Middle District Of
Tennessee
Northeastern Division
Case No.: 2-00-0014
NISI No.: 2000-109

July 10, 2001 [REDACTED] v. *Ford Motor Company*
In The United States District Court For The Eastern District of Texas
Beaumont Division
Case No.: 1:99CV829
NISI No.: 2000-054

July 2, 2001 [REDACTED] v. *Evenflo Company, Inc.*
In The Circuit Court Of The 17th Judicial Circuit in and for
Broward County, Florida, General Jurisdiction Division
Case No.: 99-015339CA21
NISI No.: 2000-044

May 8, 2001 [REDACTED] v. *Ford Motor Company & U-Haul*
In The United States District Court For The Western
District of Virginia; Charlottesville Division
Civil Action No.: 3:00CV00049 with 3:00CV00050 & 3:00CV00051
NISI No. 2000-065

January 3, 2001 [REDACTED] v. *Alabama Power Company*
In The Circuit Court of Bullock County, Alabama
Case No. CV-98-06
NISI No. 1999-0691 - Fuel Tank -

December 20, 2000 [REDACTED] v. *Ford Motor Company*
The Circuit Court of Jackson County, Mississippi

Case No.: C1-99-0211(3)
NISI No. 1999-059 I - *Brake Pressure Switch* -

- November 16, 2000 [REDACTED] *v. Ford Motor Company*
In The Superior Court Of The State Of Arizona
For County of Pima
Case No.: 336712
NISI No. 1999-032 I - *Electrical* -
- October 23, 2000 [REDACTED] *v. Ford Motor Company*
In The United States District Court for the Northern District of
Mississippi, Eastern Division
Civil Action No.: 1:99cv332-D-D
NISI No. 2000-063 I - *Electrical* -
- September 7, 2000 [REDACTED] *v. Ford Motor Company*
In The District Court Of Liberty County, Texas
253rd Judicial District
No. 56,985
NISI No. 1999-045 I - *Collision/Fuel Delivery* -
- August 24, 2000 [REDACTED] *v. Ford Motor Company*
In The District Court Of Tarrant County, Texas
Case No.: 342-176924-99
NISI No. 1999-010 I - *Electrical Failure* -
- August 15, 2000 [REDACTED] *v. Ford Motor Company*
Superior Court Of The State Of California
County Of Sacramento
No.: 98A506360
NISI No. 1999-079 I - *Fuel Tank* -
- March 20, 2000 [REDACTED] *v. Ford Motor Company*
In The District Court 216th Judicial District
Kendall County, Texas
No. 96-214
NISI No. 1998-062 I
- March 14, 2000 [REDACTED] *v. Ford Motor Company*
In The United States District Court
For The Northern District Of Georgia
Atlanta Division
No.: 1:99-CV-9459-TWT
NISI No.: 1998-032 I - *Fuel Tank Failure* -

- March 1, 2000 [REDACTED] *v. Federal Extradition Agency*
In The United States District Court For The Middle
District Of Tennessee; Nashville Division
No: 3:97-0790 (Catalano)
NISI No. 1999-020 I - *Fuel Tank Rupture -*
- February 1, 2000 [REDACTED] *v. Nissan Motor Co. LTD.*
In the United States District Court for the Southern
District of Mississippi, Jackson Division
Civil Action No.: 3:98CV700 LN
NISI No. 1998-027 I
- January 14, 2000 [REDACTED] *v. Redman Homes, Inc.*
United States District Court
Western District of Louisiana
Opelousas-LaFayette Division
Number: CV98-0457 L-O
NISI No. 1999-098 I
- December 22, 1999 [REDACTED] *v. Ford Motor Company*
In the Superior Court for the County of Cobb
State of Georgia
CAFN: 99-10480599
NISI No. 1998-108 I
- November 16, 1999 *Vigilant Insurance (Roark) v. Ford Motor Company*
State of Indiana, County of Johnson
In the Johnson County Superior Court
Cause No. 41D01-9202-CT-00106
NISI No. 1998-022 I
- November 8, 1999 *American Central Insurance Co. & Town of Jonesboro v. Ford Motor
Company*
State of Louisiana, Parish of Jackson
2nd Judicial District Court
No. 26,346
No. 26,382
NISI No. 1998-030 I
- October 7, 1999 [REDACTED] *v. Ford Motor Company*
Superior Court of the State of California
In and for the County of Contra Costa
No.: C97-00737
NISI No. 1997-042 I
- September 24, 1999 [REDACTED] *v. Ford Motor Company*

U.S. District Court for the Northern District of Oklahoma
File No. 98-CV-527-H(E)
NISI No. 1999-046 I

- September 10, 1999 [REDACTED] *v. Ford Motor Company, et al.*
The State of Texas
68th District Court, Dallas County, Texas
Case No. 9707613-C
NISI No. 1998-069 I
- September 9, 1999 [REDACTED] *et al. v. Ford Motor Company, et al.*
Commonwealth of Kentucky
Shelby Circuit Court
Civil Action No. 96-CI-00239
NISI No. 1998-053 I
- August 25, 1999 [REDACTED], *et al. v. Ford Motor Company, et al.*
District Court
Hidalgo County, Texas, 206th Judicial District
Cause No. C-6059-97-D
NISI No. 1998-028 I
- July 15, 1999 [REDACTED] *v. Ford Motor Company*
U.S. District Court for the Northern District of Georgia
Atlanta Division
Civil Action No. 1:99-CV-0459
NISI No. 1998-032 I - *Impact fire* -
- June 23, 1999 [REDACTED] *v. Ford Motor Company*
Superior Court of the State of California in and for the County
of Sacramento
Case No. 98AS03233
NISI No. 1998-104 I
- May 3, 1999 [REDACTED] *v. Ford Motor Company*
Superior Court of the State of California
For the County of Los Angeles
No. GC019702
NISI No. 1998-051 I - *alleged electric door locks* -
- April 13, 1999 [REDACTED] *v. Ford Motor Company*
Superior Court of the State of California
For the County of Santa Barbara
No. SB224504
NISI No. 1998-079 I
- April 6, 1999 [REDACTED] *v. Ford Motor Company*
U.S. District Court for the Western District of Oklahoma

No. CIV-98-7655
NISI No. 1998-091 I

March 30, 1999

██████████ v. *Ford Motor Company*
Circuit Court of the Tenth Judicial Court in and for
Jefferson County, Alabama
Civil Action No. CV-2713

March 18, 1999

State Farm Mutual Automobile Insurance Co. v. Ford Motor Company
Circuit Court for Anne Arundel County
No. C-97-36249-OC
NISI No. 1998-040 I

February 10, 1999

██████████ v. *Ford Motor Company*
U.S. District Court, Eastern District of Arkansas
Jonesboro Division
No. J-C-97-421
NISI No. 1998-0121 - *Garage Fire* -

February 1, 1999

██████████ v. *Ford Motor Company*
U.S. District Court, Western Division of Washington
At Tacoma
No. C98-5006 RJM
NISI No. 1998-060 I

December 14, 1998

██████████ v. *Ford Motor Company*
Circuit Court of Jefferson County, Alabama
Case No. CV-97-2318
NISI No. 1997-049 I

November 4, 1998

██████████ v. *Ford Motor Company*
Superior Court of the State of California in and for the
County of San Mateo
No. 398 046
NISI No. 1997-048 I

September 28, 1998

██████████ v. *Ford Motor Company*
State Court for the County of Cobb, State of Georgia
Civil Action No.: 97-A-5175-2
NISI No. 1998-001 I - *Ignition switch* -

September 24, 1998

██████████ v. *Ford Motor Company*
U.S. District Court for the Eastern District of Louisiana
Civil Action No.: 95-3859

NISI No. 1996-0071 - *Fuel Delivery System* -

September 21, 1998

██████████ v. *Ford Motor Company*
Circuit Court for the County of Wayne, State of Michigan
File No.: 96-619341-NO
NISI No. 1998-0111 - *Ground Cover Fire* -

July 20, 1998

██████████ v. *Ford Motor Company*
Court of Common Pleas, Hamilton County, Ohio
Case No.: A9707165
NISI No. 1997-0551 - *Alleged electrical fire* -

July 14, 1998

██████████ v. *Ford Motor Company*
Circuit Court of the City of St. Louis, State of Missouri
Case No.: 962-01527
NISI No. 1997-0631 - *Bed liner Static Electricity Fire* -

July 8, 1998

██████████ v. *Ford Motor Company*
U.S. District Court for the Middle District of Tennessee,
Nashville Division
Case No.: 3-95-1032
NISI No. 1997-0281 - *Post Collision Fire* -

June 19, 1998

██████████ v. *Ford Motor Company*
Circuit Court of the First Judicial District of Hinds County, Mississippi
Civil Action No.: 251-97-348-CIV
NISI No. 1997-0591 - *Electrical* -

June 19, 1998

██████████ v. *Ford Motor Company*
U.S. District Court for the Southern District of Mississippi,
Jackson Division
Civil Action No.: 3:97cv310WS
NISI No. 1997-0601 - *Electrical* -

May 22, 1998

██████████ v. *Ford Motor Company*
10th Judicial District Court, Parish of Natchitoches, State of Louisiana
Case No.: 68,250-B
NISI No. 1997-0131 - *Electrical (Aftermarket)* -

May 21, 1998

██████████ v. *Ford Motor Company*
District Court of Jefferson County, Texas, 136th Judicial District
Case No.: D-152,741
NISI No. 1997-0711 - *Transmission overflow* -

May 14, 1998

██████████ v. *Ford Motor Company*
Civil Action Number: 97-0693R
United State District Court for the Western District of Oklahoma

NISI No. 1997-072 I - *Alleged Ignition Switch* -

May 4, 1998 [REDACTED] *v. Ford Motor Company*
 Civil Action Numbers: C794-698 and CA-95-667
 United States District Court State of Minnesota, County of Brown
 5th Judicial District
 NISI No. 1997-093 I - *Alleged Ignition Switch* -

April 14, 1998 [REDACTED] *v. Ford Motor Company*
 Circuit Court At Law for the City of Norfolk,
 State of Virginia, No. 96-4045
 NISI No. 1997-069 I - *Alleged Gasoline Leak* -

March 20, 1998 [REDACTED] *v. Liebherr-America, Inc. Klp Hunter Grading*
 United States District Court in the Northern District of Georgia
 Atlanta Division, Civil Action Number: 197-CV-006
 NISI No. 1995-036 I - *Bursting Hose* -

March 12, 1998 [REDACTED] *v. Deere & Company*
 United States District Court for the Northern District of Alabama,
 Northeastern Division, Civil Action Number: 97-S-2395-NE
 NISI No. 1995-110 I - *Electrical Short* -

January 29, 1998 [REDACTED] *v. Ford Motor Company*
 NISI No. 1997-044 I - *Alleged Ignition Switch* -

December 2, 1997 [REDACTED] *v. Subaru*
 Civil Action Number: 96-14629NP
 Circuit Court for the County of Grand Traverse, State of Michigan
 NISI No. 1997-025 I - *Alleged Exhaust System Failure* -

August 19, 1997 [REDACTED] *v. Ford Motor Company*
 NISI No. 1997-038 I - *Post Collision* -

July 30, 1997 [REDACTED] *v. Ford Motor Company*
 NISI No. 1997-056 I - *Post Collision* -

July 17, 1997 [REDACTED] *v. Ford Motor Company*
 NISI No. 1997-001 I - *Alleged Ignition Switch* -

May 27, 1997 [REDACTED] *v. Ford Motor Company*
 NISI No. 1996-071 I

February 21, 1997 [REDACTED] *v. State Farm Insurance*
 NISI No. 1994-027 I - *Liability Case/Gasoline* -

January 21, 1997 [REDACTED] v. *Ford Motor Company*
NISI No. 1994-057 I

January 8, 1997 [REDACTED] v. *Ford Motor Company*
NISI No. 1994-026 I - *Collision Fire* -

October 4, 1996 [REDACTED] v. *Civitan Club*
NISI No. 1994-127 I - *Negligence* -

October 3, 1996 [REDACTED] v. *Pounds*
NISI No. 1995-092 I

September 23, 1996 [REDACTED] v. *Ford Motor Company*
NISI No. 1994-011 I - *Alleged Electrical Fire* -

September 18, 1996 [REDACTED] v. *Southern States Supply*
NISI No. 1994-072 I - *Propane Fire* -

August 20, 1996 [REDACTED] v. *Ford Motor Company*
NISI No. 1996-054 I - *Post Collision* -

July 23, 1996 [REDACTED] v. *Ford Motor Company*
NISI No. 1995-105 I - *Post Collision* -

July 18, 1996 [REDACTED] v. *Chrysler*
NISI No. 1994-104 I - *Wire Harness Fire* -

April 17, 1996 *Farmers Insurance v. Ford Motor Company*
NISI No. 1996-024 I - *Coolant Fire* -

April 9 & 25, 1996 [REDACTED] v. *Ford Motor Company*
NISI No. 1995-086 I - *Alleged Fuel Fire* -

March 28, 1996 [REDACTED] v. *Ford Motor Company*
NISI No. 1994-078 I - *Garage Fire* -

March 25, 1996 [REDACTED] v. *Georgia Farm Bureau*
NISI No. 1994-044 I

February 15, 1996 [REDACTED] v. *Georgia Power*
NISI No. 1995-023 I

February 13, 1996 [REDACTED] v. *Ford Motor Company*
NISI No. 1995-085 I - *Garage Fire* -

February, 1996 [REDACTED] v. *Ford Motor Company*

NISI No. 1995-104 I - *Alleged Electrical Fire* -

July 31, 1995

██████████ v. *Auto Owners*
NISI No. 1993-121 I - *Arson* -

July 3, 1995

██████████ v. *Ford Motor Company*
NISI No. 1995-048 I

January 25, 1995

██████████ v. *General Motors*
- *Alleged Fuel Fire* -

January 12, 1995

██████████ v. *Ford Motor Company*
NISI No. 1994-066 I - *Post Collision* -

TRIAL TESTIMONY OF WALTER RALPH NEWELL

- June 10 & 11, 2002 ██████████ *v. Toyota*
In the Circuit Court of Fairfax County, Virginia
At Law No.: 197129
NISI No.: 2001-091
- June 4-7, 2002 ██████████ *v. Ford Motor Company*
In the United States District Court
Eastern Division of Texas, Sherman Division
Civil Action No.: 4:00CV213
NISI No.: 2000-033
- March 4-7, 2002 ██████████ *v. Ford Motor Company*
Civil District Court for the Parish of Orleans
State of Louisiana
No.: 92-13762
NISI No.: 2001-050
- February 5-7, 2002 ██████████ and ██████████ *v. Ford Motor Company*
In The United States District Court
For The Northern District Of Mississippi
Eastern Division
No.: 1:99cv332-D-D
NISI No: 2000-063
- January 23-25, 2002 *Vigilant Insurance (Roark) v. Ford Motor Company*
In The Johnson County Superior Court
State of Indiana
Cause No.: 41D01-9202-CT-00106
NISI No. 1998-022
- January 22, 2001 ██████████ *v. Ford Motor Company*
In The Superior Court For The County of Bibb
State of Georgia
Civil Action No.: 98-CV-2840
NISI No. 1998-108
- January 8-11, 2001 ██████████ *v. Ford Motor Company*
The Circuit Court of Jackson County, Mississippi
Case No.: C1-99-0211(3)
NISI No. 1999-059 - *Brake Pressure Switch* -

September 24, 2000-
October 5, 2000

██████████ v. *Ford Motor Company*
Superior Court Of The State Of California
County of Sacramento
No. 98AS06360
NISI No. 1999-079 I - *Fuel Tank* -

August 31, 2000 -
September 5, 2000

██████████ v. *Ford Motor Company*
In The United States District Court
For The Northern District of Georgia, Atlanta Division
No.: 1-99-CV-9459-TWT
NISI No. 1998-032 I - *Fuel Tank Failure* -

April 19 & 20, 2000

██████████ v. *Ford Motor Company*
In The District Court of Jefferson County, Texas
136th Judicial District
Cause No.: D-152,741
NISI No. 1997-071 I - *Electrical Failure* -

January 24, 2000

State of Georgia v. ██████████
In the Superior Court of Colquitt County, State of Georgia
Criminal Action File No. 97-CR-494
NISI No. 1996-068 I
- *Malice Murder; Felony Murder; and Arson in the First Degree* -

January 3, 2000

State of Georgia v. ██████████
In the Superior Court of Richmond County
State of Georgia
Court Case No.: 99RCCR860
NISI No. 1999-093 I

November 2-4, 1999

██████████ v. *Ford Motor Company*
In The District Court Of Jefferson County, Texas
136th Judicial District
Cause No. D-152, 741
NISI No. 1997-071 I - *Electrical Failure* -

September 27, 1999

██████████ v. *Ford Motor Company*
Superior Court of the State of California in and for the County
of Sacramento
Case No. 98AS03233
NISI No. 1998-104 I

August 31, 1999

State Farm Mutual Insurance Co. v. Ford Motor Company
Circuit Court for Anne Arundel County
No. C-97-36249-OC
NISI No. 1998-0401 - Fuel Leak -

June 28,

[REDACTED] v. Ford Motor Company
Circuit Court of Jefferson County, Alabama
Case No. CV-97-2318
NISI No. 1997-049 I - *Ignition Switch* -

June 1, 1999

[REDACTED] v. Ford Motor Company
State Court for the County of Cobb, State of Georgia
Civil Action No.: 97-A-5175-2
NISI No. 1998-001 I - *Ignition Switch* -

May 11, 1999

Northbrook Insurance (Brad Scott) v. Ford Motor Company
Superior Court of the State of California
For the County of Los Angeles
Case No. GC019702
NISI No. 1998-051 I - *Alleged electric door locks* -

April 19, 1999

[REDACTED] v. Ford Motor Company
U.S. District Court, Eastern District of Arkansas
Jonesboro Division
Case No. J-C-97-421
NISI No. 1998-012 I - *Garage Fire* -

February 9, 1999

Brown County Agricultural Service v. Ford Motor Company
State of Minnesota, District Court, County of Brown
Fifth Judicial District
Case Nos. C7-94-698 and C4-95-667
NISI No. 1997-093 I - *Ignition Switch* -

January 25, 1999

[REDACTED] v. Ford Motor Company
Circuit Court for the County of Wayne
State of Michigan
Case No.: 96-619341-ND
NISI No. 1998-011 I - *Death (Ground Cover)* -

January 13, 1999

Jurl Rice and Alfa Mutual Insurance v. Deere & Company
U.S. District Court for the Northern District of Alabama
CV-97-S-2395-NE
NISI No. 1995-110 I - *Electrical* -

October 19, 1998

[REDACTED] v. Ford Motor Company
U.S. District Court for the Eastern District of Louisiana
Civil Action No.: 95-3859
NISI No. 1996-007 I - *Fuel delivery system* -

October 12, 1998

Ragan v. Ford Motor Company
10th Judicial District Court, Parish of Natchitoches

September 21, 1998 State of Louisiana
 Case No.: 68,250-B
 NISI No. 1997-013 I - *Electrical -*
 ██████████ *v. Nissan North America*
 U.S. District Court for the Western District of Louisiana
 Lafayette-Opelousas Division
 Civil Action No.: 95-00101
 NISI No. 1996-066 I - *Ground cover fire -*

September 14, 1998 ██████████ *v. Ford Motor Company*
 U. S. District Court for the Western District of Pennsylvania
 Civil Action No.: 97-301J
 NISI No. 1998-036 I - *Alleged electrical fire -*

August 31, 1998 *State of Georgia v. ██████████*
 Superior Court for the County of Colquitt, Criminal Division
 Case Number: 97-CR-494
 NISI No. 1996-068 I - *Murder/Arson -*

June 8, 1998 ██████████ *v. Ford Motor Company*
 U. S. District Court for the Western District of Oklahoma
 CIV-97-0693R
 NISI 1997-072 I - *Catalytic converter/Exhaust Fire-*

April 9, 1998 *State of Georgia v. ██████████*
 Superior Court for the County of Elbert, Criminal Division
 Case Number: 96-OR-140-B
 NISI No. 1996-074 I - *Arson -*

December 15, 1997 *State of Georgia v. ██████████*
 Superior Court for the County of Colquitt
 Criminal Number: 97CR-494
 NISI No. 1996-068 I - *Murder/Arson -*

October 9 & 10, 1997 ██████████ *v. Ford Motor Company*
 City Court Lake Charles, Louisiana; Parish of Calcasieu
 Case Number: 95-739
 NISI No. 1996-065 I - *Electrical Fire/Wire Harness -*

September 17, 1997 ██████████ *v. Bryant Electric*
 Circuit Court Hamilton County, Tennessee; Division II
 Case Number: 89-CV-924
 NISI No. 1986-235 I - *Computer -*

June 4-6, 1997 ██████████ *v. Ford Motor Company*
 U.S. District Court Southern Mississippi; Jackson Division
 Civil Action Number: 3:94CV448-B-N

NISI No. 1996-065 I - *Post Collision Fire* -

May 5, 1997 [REDACTED] *v. Ford Motor Company*
 24th Judicial District; Jefferson Parish, Louisiana
 Case Number: 487-418
 NISI No. 1996-042 I - *Exhaust System Fire*

April 21-24, 1997 [REDACTED] *v. Ford Motor Company*
 U.S. District Court Southern District of Ohio; Eastern Division
 Case Number: C2-95-307
 NISI No. 1995-085 I - *Garage Fire* -

March 31-April 8, 1997 [REDACTED] *v. Ford Motor Company*
 NISI No. 1994-078 I - *Garage Fire* -

March 13 & 14, 1997 *Queen City Foods/Fieldale*
 NISI No. 1990-171 I - *Hydraulic Fire* -

March 3, 1997 [REDACTED] *v. Ford Motor Company*
 Circuit Court 6th Judicial Circuit Pinellas County, Florida
 Case Number: 93-2290-CI
 NISI No. 1994-026 I *Collision Fire* -

December 4, 1996 [REDACTED] *v. Ford Motor Company*
 Circuit Court Cook County, Chicago; County Dept./Law Division
 Case Number 92L9345
 NISI No. 1996-054 I - *Collision Fire* -

November 16, 1996 [REDACTED] *v. Ford Motor Company*
 NISI No. 1994-078 I - *Garage Fire* -

November 15, 1996 [REDACTED] *v. Ford Motor Company*
 NISI No. 1996-024 I - *Coolant Fire* -

November 12, 1996 [REDACTED] *v. Ford Motor Company*
 NISI No. 1995-078 I - *Gasoline Fire* -

November 1, 1996 [REDACTED] *v. Ford Motor Company*
 Circuit Court Baltimore City
 Case Number: 95264025 CL202371
 NISI No. 1995-105 I - *Collision Fire* -

October 21, 1996 [REDACTED] *v. Ford Motor Company*
 NISI No. 1994-071 I *Employee Fire* -

September 25, 1996 [REDACTED] *v. Alfa Insurance Company*
 NISI No. 1994-030 I - *Arson House Fire* -

September 12, 1996 [REDACTED] *v. Georgia Farm Bureau*

NISI No. 1993-082 I - *Arson House Fire* -

May 29, 1996

██████████ v. *Grange Mutual*
NISI No. 1993-140 I - *Arson House Fire* -

May 6, 1996

██████████ v. *Ford Motor Company*
Circuit Court 1st Judicial District of Jasper County, Mississippi
Case Number: 94-0004 and 94-0026
NISI No. 1994-095 I - *Post Collision Fire* -

1995

██████████ v. *State of Georgia*
NISI No. 1994-125 I - *Arson/Murder* -

May 8, 1995

██████████ v. *Georgia Farm Bureau*
NISI No. 1993-039 I - *Arson House Fire* -

Exponent
Failure Analysis Associates*

Lee A. Swanger, Ph.D., P.E.
Principal Engineer

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September 26, 2002

Mr. James Feeney
Feeney Kellet Wiener & Bush
35980 Woodward Avenue
Bloomfield Hills, Michigan 48304-0394

Ref: [REDACTED] v. Ford
FaAA Project No. MI76720

Dear Mr. Feeney:

This is a report regarding the speed control deactivation switch involved in the above-captioned case.

I have reviewed x-rays and over sixty photographs of the speed control deactivation switch. During my examination, I observed melted plastic enclosing portions of the speed control deactivation switch electrical components. There was also some evidence that the electrical contacts of the switch experienced internal arcing. I was unable to analyze the Kapton layers because they were completely pyrolyzed to carbon as a result of the fire.

In my opinion the evidence of the switch itself does not indicate that the speed control deactivation switch is the source of the fire. It would be unusual to see this amount of plastic after a fire if the fire originated in the switch. Further, the level of arcing here does not establish that the switch was the source of the fire. While there are some instances where internal arcing may be indicative of a fire in which gaseous products of combustion break through the plastic and result in a visible flame outside the switch boundary, this case does not appear to fall in that category. I have seen many switches with similar levels of damage due to arcing, where there was no effect on the external configuration and appearance of the switch. In particular, in other switches I have examined there has been no spread of arcing damage from the inside of the switch

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to its outer surface, and except for damage caused by the fire external to the switch, the subject switch appears similar.

I reserve the right to change or supplement my opinion if new or additional information becomes available to me.

Very truly yours,



Lee A. Swanger, Ph.D., P.E.
Principal Engineer, Miami Office Director

cc: Mr. Raymond S. Weber

Exponent

Failure Analysis Associates®

Lee A. Swanger, Ph.D., P.E.
Principal Engineer
Failure Analysis Associates

Professional Profile

Dr. Lee A. Swanger is the Director of Exponent's Miami, Florida office and investigates issues related to failure analysis of materials and mechanical systems, accident reconstruction, physical and mechanical metallurgy, and thermodynamics. More specifically, he specializes in foundry process development, welding and weldments, powder metallurgy and powder rolling, electrochemistry, sleeve bearing design, materials testing, fatigue, and fracture. Dr. Swanger's research also includes work in the areas of internal combustion engines and compressor component design and testing, and he received a U.S. Patent for his engine bearing material and fabrication process.

Dr. Swanger has held several research and development positions at Imperial Clevis, Inc., Gould Laboratories, and General Motors Research Laboratories. He currently serves as Adjunct Assistant Professor of Mechanical and Metallurgical Engineering at the University of Miami.

Credentials and Professional Honors

B.S. (Metallurgy), Case Institute of Technology, with Highest Honors, 1968
M.S. (Materials Science and Engineering), Stanford University, 1969
M.B.A. (Marketing/Finance), Cleveland State University, 1982
Ph.D. (Materials Science and Engineering), Stanford University, with Distinction, 1972
Tau Beta Pi
Sigma Xi
Beta Gamma Sigma
National Merit Foundation Scholarship
Xerox Corporation Fellowship
IBM Corporation Fellowship
Hertz Foundation Fellowship
Registered Professional Mechanical Engineer, California #M23275
Registered Professional Metallurgical Engineer, Ohio #44024
Registered Professional Engineer, Virginia #15492
Registered Professional Engineer, Florida #37207

Lee A. Swanger
Expo-CV-98-02

Supplement: Additional Publications and Presentations

- Investigation of Surface Scoring of Main Bearings: Fairbanks Morse 38TD8-1/8 Diesels at Fermi II Power Plant, Failure Analysis Associates Report, June 1986 (with M. M. Vogler).
- Design Review of Connecting Rod Bearing Shells for Transamerica Delaval Enterprise Engines, Failure Analysis Associates Report, March 1984.
- The Role of Testing Programs in Verifying Structural Integrity of Medium Speed Diesel Generator Components, *Institute for Electrical and Electronics Engineers Transaction on Nuclear Science*, Vol. NS-32, No. 1, February 1985 (with G. Rogers and C. H. Wells).
- Inhomogeneous Thermodynamics and Spinodal Decomposition, Ph.D. dissertation, Stanford University, August 1972.
- Evaluation of Piston and Bearing from the Baltimore Gas and Electric Hunt Valley Iron Cogeneration System, Failure Analysis Associates, Inc. Technical Report, June 1992 (with L. H. Bisbee et al).
- Review of Performance Problems, Occidental Chemical M/V Julius Hammer and M/V Frances Hammer, Colt-Fielstick, PC 2.5 Diesel Engines, Failure Analysis Associates Report, April 1986.
- On the Necessary Conditions for Homogeneous Nucleation of Gas Bubbles in Liquids, *Journal of Crystal Growth*, Vol. 12, pp. 323-326, 1972 (with W. C. Rhines).
- The Elastic Energy of a Straight Dislocation in an Infinite Anisotropic Elastic Medium, *Physica Status Solidi (B)*, Vol. 48, pp. 419-428, 1971 (with D. M. Barnett).
- Computer Simulation of One-Dimensional Spinodal Decomposition, *Acta Metallurgica*, Vol. 18, pp. 9-14, 1970 (with P. K. Gupta and A. R. Cooper, Jr.).
- Bearing Materials Update, presented to Society of Automotive Engineers Off-Highway Conference, Milwaukee, Wisconsin, September 1981.
- Developments in Bearings and Pistons, presented at O Motor no Futuro (The Engine of the Future), Sao Paulo, Brazil, September 1980.
- Selection of Crankshaft Materials for Optimum Bearing Performance, presented to Society of Manufacturing Engineers Conference, Los Angeles, California, CM80-392, June 1980.
- Heavy Duty Bearings: Materials and Process, presented at Carnegie-Mellon University, Pittsburgh, Pennsylvania, March 1980.

Exponent

Lee A. Swanger, Ph.D., P.E.
Principal Engineer
Failure Analysis Associates

Professional Profile

Dr. Lee A. Swanger is the Director of Exponent's Miami, Florida, office and investigates issues related to failure analysis of materials and mechanical systems, accident reconstruction, physical and mechanical metallurgy, and thermodynamics. More specifically, he specializes in foundry process development, welding and weldments, powder metallurgy and powder rolling, electrochemistry, sleeve bearing design, materials testing, fatigue, and fracture. Dr. Swanger's research also includes work in the areas of internal combustion engines and compressor component design and testing, and he received a U.S. Patent for his engine bearing material and fabrication process.

Dr. Swanger has held several research and development positions at Imperial Clevite, Inc., Gould Laboratories, and General Motors Research Laboratories. He currently serves as Adjunct Assistant Professor of Mechanical and Metallurgical Engineering at the University of Miami.

Credentials and Professional Honors

Ph.D., Materials Science and Engineering, Stanford University (with distinction), 1972
M.B.A., Marketing/Finance, Cleveland State University, 1982
M.S., Materials Science and Engineering, Stanford University, 1969
B.S., Metallurgy, Case Institute of Technology (with highest honors), 1968

Registered Professional Mechanical Engineer, California #M23275; Registered Professional Metallurgical Engineer, Ohio #44024; Registered Professional Engineer, Virginia #15492, Florida #37207

Tau Beta Pi; Sigma Xi; Beta Gamma Sigma; National Merit Foundation Scholarship; Xerox Corporation Fellowship; IBM Corporation Fellowship; Hertz Foundation Fellowship

American Society for Metals (member); American Society for Testing and Materials (member); American Society for Mechanical Engineers (member); Society of Automotive Engineers (member); American Welding Society (member); Human Factors and Ergonomics Society (member); Hertz Foundation Fellowship Project (interviewer)

Patents

Patent 4,333,215: Bearing Material and Method of Making, issued June 8, 1982.

Publications

"The Role of Testing Programs in Verifying Structural Integrity of Medium Speed Diesel Generator Components," *Institute for Electrical and Electronics Engineers Transaction on Nuclear Science*, Vol. NS-32, No. 1, February 1985 (with G. Rogers and C.H. Wells).

"Inhomogeneous Thermodynamics and Spinodal Decomposition," Ph.D. Dissertation, Stanford University, August 1972.

"On the Necessary Conditions for Homogeneous Nucleation of Gas Bubbles in Liquids," *Journal of Crystal Growth*, Vol. 12, pp. 323-326, 1972 (with W.C. Rhines).

"The Elastic Energy of a Straight Dislocation in an Infinite Anisotropic Elastic Medium," *Physica Status Solidi (B)*, Vol. 48, pp. 419-428, 1971 (with D.M. Barnett).

"Computer Simulation of One-Dimensional Spinodal Decomposition," *Acta Metallurgica*, Vol. 18, pp. 9-14, 1970 (with P.K. Gupta and A.R. Cooper, Jr.).

Presentations

"How to Solve Your Bearings' Problems," presented at Joint Emergency Diesel Generator Owners Group Conference, Chicago, IL, June 1997.

"Investigation of the Reliability of Solid Aluminum Main Bearings in Emergency Diesel Generators," 9th International Conference on Structural Mechanics in Reactor Technology, Volume D, Lausanne, Switzerland, August 1987 (with S.A. Rau and M.M. Vogler).

"Analysis of Diesel Engine Crankshaft Torsional Vibrations," 9th International Conference on Structural Mechanics in Reactor Technology, Volume D, Lausanne, Switzerland, August 1987 (with P.R. Johnston and L.M. Shusto).

"Advanced Techniques of Accident Investigation," presented at Occupational Safety and Health Administration Training Institute, Des Plaines, IL, March, June, and September 1986.

"Advanced Methods for Diesel Component Life Prediction," Society for Automotive Engineers Paper #860885, Marine Propulsion Technology Conference, Washington, DC, May 1986 (with D.O. Harris, P.R. Johnston, and G. Derbaljan).

"Reliability and Service Life of Steel Truck Wheels," 1986 Annual Reliability and Maintainability Symposium, Las Vegas, NV, January 1986 (with R.L. McCarthy and G.R. McCarthy).

"Design Analysis of Emergency Diesel Generator Components to Establish Reliability Under Operating Conditions," 8th International Conference on Structural Mechanics in Reactor Technology, Brussels, Belgium, August 1985 (with G. Rogers et al.).

"Bearing Materials Update," presented to Society of Automotive Engineers Off-Highway Conference, Milwaukee, WI, September 1981.

"Developments in Bearings and Pistons," presented at O Motor no Futuro (The Engine of the Future), Sao Paulo, Brazil, September 1980.

"Selection of Crankshaft Materials for Optimum Bearing Performance," presented to Society of Manufacturing Engineers Conference, Los Angeles, CA, CM80-392, June 1980.

"Heavy Duty Bearings: Materials and Process," presented at Carnegie-Mellon University, Pittsburgh, PA, March 1980.

Reports

"Teledyne Continental Crankshaft and Lifter Performance: The Influence of Lubricating Oil on Surface Conditions," Technical Report to Special Masters in *Gross v. Mobil*, November 1996 (with R.G. Davy, P. Eberly and L. Waters).

"Evaluation of Diesel Generator Number 1 at Brunswick Nuclear Plant," Failure Analysis Associates, Inc., Technical Report, January 1993 (with P.R. Johnston and L.M. Shusto).

"Investigation of Repeated Number 5 Main Bearing Degradation by Flashing, Fairbanks Morse Opposed Piston Auxiliary Diesel on the *Emory S. Land*," Failure Analysis Associates, Inc., Technical Report, January 1992.

"Generator Bearing Condition Assessment: Unit DG-1, WPPSS WNP-2," Failure Analysis Associates, Inc., Technical Report, June 1991 (with R.R. Scheibe et al.).

"DC Motor Control Center 2PB-1 Fire at Fermi II Nuclear Plant," Failure Analysis Associates, Inc., Technical Report, March 1987 (with D.M. Mercaldi et al.).

"Failure Investigation of North Hot Reheat Line, Detroit Edison Monroe Unit #1," Failure Analysis Associates, Inc., Technical Report, September 1986 (with W.P. Webb et al.).

"Investigation of Surface Scoring of Main Bearings: Fairbanks Morse 38TD8-1/8 Diesels at Fermi II Power Plant," Failure Analysis Associates, Inc., Technical Report, June 1986 (with M.M. Vogler).

"Design Review of Connecting Rod Bearing Shells for Transamerica DeLaval Enterprise Engines," Failure Analysis Associates, Inc., Technical Report, March 1984.

"Evaluation of Piston and Bearing from the Baltimore Gas and Electric Hunt Valley Inn Cogeneration System," Failure Analysis Associates, Inc., Technical Report, June 1992 (with L.H. Bisbee et al.).

"Review of Performance Problems, Occidental Chemical M/V Julius Hammer and M/V Frances Hammer, Colt-Pielstick, PC 2.5 Diesel Engines," Failure Analysis Associates Report, April 1986.

Lee A. Swager, Ph.D., F.R.E.
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Exc

EA02-025-A 0587

Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Stenger, Ph.D., P.E.

PaAA	CASE#	LITIGANTS	COUNSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
M76564	04-0080-CA CV-F	[REDACTED]	Christopher Burns Rob Guld	9th Judicial Circuit	Duval County Florida	1/20/00 T
M76619	LC983-J	[REDACTED]	Ed Shapiro Michael Shestakovic	Circuit Court	Richmond VA	1/28/1998 T
M76678	04-L-14	[REDACTED]	Tim Bear Jeff Shapiro	Circuit Court	Henry County Virginia	2/20/1998
M76472		[REDACTED]	Adele Stases		Monroe County FL	2/12/1998
M76378	04-L-14	[REDACTED]	Tim Bear Jeff Shapiro	Circuit Court	Henry County Virginia	3/30/1998
H831325	04-54758	[REDACTED]	Poll John Thomas	District Court	Henrico County Texas	4/5/1998
M76308	04-3008 CA.27	[REDACTED]	James Robinson John Galdan	Circuit Court 11th Judicial Circuit	Dade Cty. FL	4/21/1998
M76717	05-19808 CA -33	[REDACTED]	John Hestek Ronald Fitzgerald	Circuit Court 11th Judicial Circuit	Dade County FL	5/20/1998
M76717	05-19808 CA -33	[REDACTED]	John Hestek Ronald Fitzgerald	Circuit Court 11th Judicial Circuit	Dade County FL	6/15/1998
H831325	05-54758	[REDACTED]	Poll John Thomas	District Court	Henrico County Texas	7/8 & 7/10/98 T
M76718	14,138	[REDACTED]	Taming Doreen Day	25 Judicial District	Colorado County Texas	7/14/1998
M76641	07-4082 CA82	[REDACTED]	Edie Merhan Marc Garz	11th Judicial Circuit	Dade County Florida	7/17/1998

Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Swanger, Ph.D., P.E.

F&AA	CASE #	LITIGANTS	COUNSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
DT81783	87-18144CK	[REDACTED]	Jim Fawcay Crowell & Moring	State of Michigan Circuit Court	Baytown City Michigan	7/24/1998
M876709	86-20882 -CA-18	[REDACTED]	Libby Herrera-Moreno Ms. Lohra	11th Judicial Circuit	Dade County Florida	7/28/1998
M876841	87-4882 CA02	[REDACTED]	Eddie Marben Mara Garz	10th Judicial Circuit	Dade County Florida	6/3/1998 Y
M876434	84-2200 CIV	[REDACTED]	Arthur Stark James Gordon	United States District Court	Dade County Florida	8/21/1998
M876789	87-181-H	[REDACTED]	Anthony Marino G. Wanda Klopatrik	12th Judicial Circuit	Hialeah City Florida	8/20/1998
LA30028	73Y14800S1787 DAH	[REDACTED]	Jeff Brown Michael D. Boucher	American Arbitration Association	San Diego California	8/28/1998
M876851	85-810783	[REDACTED]	Paul Ansel Richard Cochran	17th Judicial District	Broward City, Florida	6/3/1/898
M876886	87-CV84732	[REDACTED]	Douglas Abruzzo Jan Bachshenauer	Superior Court Div.	Galliard County N. Carolina	8/4/1998
M878718	18,838	[REDACTED]	Tyring Dwayne Day	28 Judicial District	Delameda County Texas	8/10/1998 T
M876411		[REDACTED]	Red L. Robinson Tom Skout	Federal District Ct	Tepala Kansas	10/5/1998 T
M876776	87-2257 CA-81	[REDACTED]	Jennifer Price Alex Quvarz	29th Judicial Circuit	Dollar County Florida	10/22/1998
M876789	87-8128 (18)	[REDACTED]	Elves Duan Michael McLeod Wayne Akier	11th Judicial District Circuit Court	Dade County Florida	10/27/1998

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Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Bunker, Ph.D., P.E.

A	CASE #	LITIGANTS	COUNSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
3789	88-8520 (10)	[REDACTED]	Steven Dorn Michael McLeod Wayne Alder	11th Judicial District District Court	Dade County Florida	10/28/1998 H
3793	84-3003 CA-27	[REDACTED]	James Robinson John Balkin	Circuit Court 11th Judicial Circuit	Dade Cty. FL	10/28/1998 T
3798	98-28992 -CA-20	[REDACTED]	Libby Herson-Merrett Nia Lyles	11th Judicial Circuit	Dade County Florida	11/29/1998 T
3807	1886-0647/MCPB	[REDACTED]	Andrew Schwartz Patricia Barwick	Learn Law Arbitration Program	Brevard County Florida	12/21/1998 A
3828	CV-97-01228BT &	[REDACTED]	Mark Dittels Robert Leroy	Superior Court J.D. of Stamford	Stamford Connecticut	1/24/1999
3833	02-88-1873	[REDACTED]	Geoffrey Myers Richard A. Pyle	District Court Southern District	Ohio Eastern Division	1/10/1999
3731	CA 89-0362	[REDACTED]	C. Bennett Duff, Jr George Robinson	District Court Eastern District	Louisiana	1/11/1999
3768	CI 97-2363	[REDACTED]	Don Bortolotta Jeff Carter	9th Judicial Circuit	Orange County Florida	2/22/1999
3839	CL 98-001280 A1	[REDACTED]	Shawn Reizen Don Doyle	18th Judicial District	Palm Beach Cty. Florida	6/13/1998
3888	97-727834-NP	[REDACTED]	John Dambrio George Head	Circuit Court	County of Wayne Michigan	4/27/1998
3832	97-01-0846	[REDACTED]	Grant McGuire Catherine C. Young	District Court Eastern Dist	Jefferson County Kentucky	6/11/1998
3881	CL97-006306AD	[REDACTED]	Robert Gleason	18th Judicial Circuit	Palm Beach Dy.	6/13/1998

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Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Swager, Ph.D., P.E.

Case #	Case #	LITIGANTS	COUSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
LA38861	84-16034 (82)	[REDACTED]	Matthew Passey	Circuit Court	Florida	
NH1610	87-181 CA R/W/P	[REDACTED]	Donald Feldman Peter Washuter	17th Judicial Circuit Civil Division	Broward Cty. Florida	8/28/1989
M79965	82-84883 CA 62	[REDACTED]	Marta Aronowitz Dan Kahan	20th Judicial Circuit Circuit Court	Lee County Florida	10/28/1988
M77741	88-3461-CIV	[REDACTED]	Doug Lynn David Peback	11th Judicial Circuit Circuit Court	Dade County Florida	11/23/1989
			George Mitchell Myra Shapiro	US District Court S. District of FL	Dade County Florida	12/17/1989 12/28/1989 T
M76761	8670484788	[REDACTED]	Elaine Swan Ed Siegel	US District Court S. Dist. of Ga. 189	Jackson Mississippi	1/7/2000
M76886	88-13486 CA23	[REDACTED]	Miguel San Pedro John Gauder	Circuit Court 11th Judicial District	Dade County Florida	1/10/2000
M76888	88-13486 CA23	[REDACTED]	Miguel San Pedro John Gauder	Circuit Court 11th Judicial District	Dade County Florida	1/11/2000 T
M76826	88-10886	[REDACTED]	Mark Sabella Jim McCroskey	Circuit Court 17th Judicial Circuit	Broward County Florida	1/12/2000
M76880	88-17315 CA 28	[REDACTED]	Octavio Martinez Steven Laitzke	Circuit Court 11th Judicial District	Dade County Florida	2/8/2000
M76887	8-880, 188C	[REDACTED]	John Cash Smith Robert Fizeau	District Court 103rd Judicial Dist.	Orange County Texas	2/16/2000
M76844	12605-88	[REDACTED]	Lutz Hyberg Fred Greenberg	Superior Court NJ Law Division	Atlantic City New Jersey	2/18/2000

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Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Syminger, Ph.D., P.E.

FLAA	CASE #	LITIGANTS	ODUMBEL	JURISDICTION	VENUE	DATE OF TESTIMONY
M75680	88-6210 CV	[REDACTED]	Thomas Morgan Rob Treacy	District Court 8, District of FL	Dade County Florida	2/24/2000
M75680	88-6210 CV	[REDACTED]	Thomas Morgan Andy Anderson	District Court 8, District of FL	West Palm Beach Florida	2/25/2000 3/1/2000 T
M75714	97-3711-CA-01	[REDACTED]	Michael McDermott Nick Bery	Circuit Court 20th Judicial Circuit	Collier County Florida	6/31/2000
M75782	89-0070 (CWS)	[REDACTED]	Harriet Decina British Vidias	Circuit Court	Jackson County Mississippi	8/18/2000
M75774	89-8916 CA 11	[REDACTED]	Mary Epelbaum Mario Lopez	Circuit Court 11th Judicial Circuit	Dade County Florida	7/12/2000
M75834	CL88 2823	[REDACTED]	Steven Dell Tom Caldwell	Circuit Court 19th Judicial Circuit	Palm Beach County Florida	7/26/2000
M75800	88005748 AJ	[REDACTED]	David Barpedro Steven Savoie	Circuit Court 18th Judicial Circuit	Palm Beach County Florida	7/31/2000
M75870	CV 87-0878	[REDACTED]	Janet McShane Cecilia Parvia	District Court Central District of CA	California	8/14/2000
M75257	88-22135 CA 01	[REDACTED]	Scott Frank Michael Glass	Circuit Court 11th Judicial District	Dade County Florida	8/12/2000
M75834	CL88 2823	[REDACTED]	Steven Dell Tom Caldwell	Circuit Court 19th Judicial Circuit	Palm Beach County Florida	8/15/2000 T
M75400	81009	[REDACTED]	Michael Penabazler G. Bruce Parkinson	District Court 23rd Judicial District	Parish of Assumption Louisiana	11/3/2000
M72738	CV 87 0066	CUC	Richard Hansen	US District Court	No. Mexican Border	1/29/2001

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Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Swenger, Ph.D., P.E.

PAAR	CASE #	LITIGANTS	COUNSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
		Golens	Ellen John Bain			
M76772	97-2257 CA-01	[REDACTED]	Ellen John Bain	20th Judicial Circuit	Collier County Florida	2/1/2001
M76228	98-8517-CV	[REDACTED]	M. Farig & M. Miller Michael Moore	US District Court So. District of FL	Palm Beach City, Florida	2/28/2001 T
M76836		[REDACTED]	Steph Denison Sheldon Altman	US District Court So. District of MS	Hinds County Mississippi	3/27/2001 T
M76938	CL94-0832AG	[REDACTED]	Matthew Weisberg Yara Margan	Circuit Court 15th Judicial Circuit	Palm Beach County Florida	4/2/2001
M76138	98-28488	[REDACTED]	R. W. Payne Terese Jones	Circuit Court 18th Judicial Circuit	Hillsborough County Florida	4/3/2001
M76887	98-082, 308D	[REDACTED]	John Cash Smith Robert Filson	District Court 13rd Judicial Dist.	Orange County Texas	4/26/2001 T
M76786	CL 95-1843 AN	[REDACTED]	Don Santarino Lee Tolzman	Circuit Court 15th Judicial Circuit	Palm Beach County Florida	5/28/2001
M76288	94-11882 (11)	[REDACTED]	Maria Nodal Larry Beck	Circuit Court 17th Judicial Circuit	Broward County Florida	5/29/2001
M76381	98-29343 CA 30	[REDACTED]	Madin Bergu Jeffrey A. Mowse	Circuit Court 11th Judicial Circuit	Miami-Dade County Florida	5/29/2001
M76329	98-1298-CV	[REDACTED]	Jason Zidel Robert C. Barnath	District Court S. District, Miami Div.	Miami-Dade County Florida	6/14/2001
M76287	98-82188 CA 01	[REDACTED]	Scott Frank Michael Glanz	Circuit Court 19th Judicial District	Irwin County Florida	6/22/2001 T
M76380	98-06488	[REDACTED]	R. W. Payne Terese Jones	Circuit Court 18th Judicial Circuit	Hillsborough County Florida	6/24/2001 T

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Deposition, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Gensper, Ph.D., P.E.

Case	Case #	LITIGANTS	COUNSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
M78424	00-1783-04	[REDACTED]	Sam Yaffe Eduard Cole	Circuit Court 17th Judicial Circuit	Broward County Florida	8/20/2001
M78364	CV-00-078	[REDACTED]	J. Cole Parks Chris Muller	Circuit Court	Henry County Alabama	8/01/2001
M78434	01-8238 CA 82	[REDACTED]	Virginia Forbes Tom Morgan	Circuit Court 11th Judicial Circuit	Dade County Florida	1/04/2001 T
SP28449	IP00-1021-C-Y8	[REDACTED]	Elizabeth Layton	District Court Southern District	Indianapolis Indiana	12/10/2001
M78005	00-0170-CV-W-1	[REDACTED]	Bob Ham John Cowler	Circuit Court 4th Judicial Circuit	Missouri	11/03/2001
M78644	301CV473	[REDACTED]	William Kilbriff J. Tracy Walker	District Court Eastern VA District	Richmond Virginia	12/19/2001
M78659	00-0218 CA 02	[REDACTED]	Layton Mark Scott Sarason	Circuit Court 11th Judicial Circuit	Miami-Dade FL	1/12/2002 & 1/21/02
M78661	01-41802 CA 24	[REDACTED]	William Haggitt Curtis Stone	Circuit Court 11th Judicial Circuit	Miami-Dade FL	3/21/2002
SP81080	01-02051 CA 08	[REDACTED]	Kevin Flynn Jack Daviglio	District Court Eastern Division	Illinois	4/12/2002
M78474	00-23378 CA 21	[REDACTED]	William Haggitt Paul Hol	Circuit Court 11th Judicial Circuit	Miami-Dade FL	4/16/2002
M78029	01-01418 CA 08	[REDACTED]	Kenneth Balagueron Doug Chunhwy	Circuit Court 11th Judicial Circuit	Miami-Dade FL	4/16/2002
M78023	281-CV-001	[REDACTED]	Duke Goss	District Court		4/25/2002

Deposits, Trial (T), Hearing (H), and Arbitration (A) Testimony of
Lee A. Swinger, Ph.D., P.E.

FA#	CASE #	LITIGANTS	COUNSEL	JURISDICTION	VENUE	DATE OF TESTIMONY
			Larry Wade	Deba Dikhan	Mississippi	
M78786	0100-1003 AM		Stephen Knaer Lee Tolman	Circuit Court 19th Judicial Circuit	Palm Beach County Florida	6/26/2002 T
M78878	3760-C of 1085		Timothy Polohan Ed Greenberg	Court of Common Pleas	Luzerne County Pennsylvania	8/11/2002 T
M78817	2890V11LN		John Hawkins Raymond Brown	District Court Southern District	Jackson Mississippi	8/14/2002
M78881	80-688282 CA02		Joe Danvers Armando Rubio	Circuit Court 17th Judicial Circuit	Broward County Florida	6/21/2002
LA30516	238-178071-00			District Court	Tarrant County Texas	6/24/2002
M78347	88-021483 (Ch 21)		Mrs. Thomas Maude Lefers	Circuit Court 17th Judicial Circuit	Broward County Florida	7/16/2002
M78474	03-28378 CA 21		William Haggatt Paul Hair	Circuit Court 11th Judicial Circuit	Miami-Dade FL	7/30/2002
M78888	88-8041 A1		Jack Paris Diana Seropian	Circuit Court 16th Judicial Circuit	Palm Beach Cty. FL	7/31/2002
BF31641	234274		Michael Donovan Garcia Thraps	Superior Court	San Joseph Cty. California	8/6/2002 T
M78142	1083684DA		Scott Katz Ed Deak	US Court of Arbitration	Planet Earth	8/19/2002

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 **Residence Fire**

**Photographs
Volume I**

By

**Alan C. Topinka, PE, CFEL, PI
Principal Engineer**

December 4, 2001

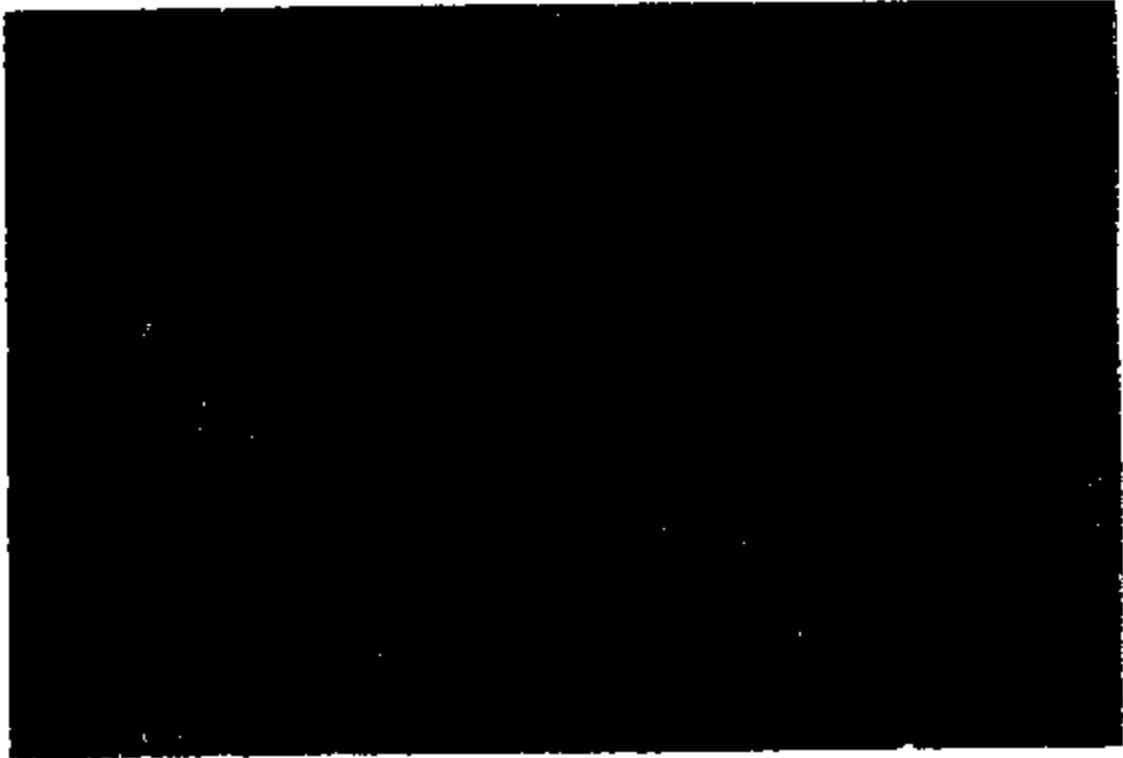
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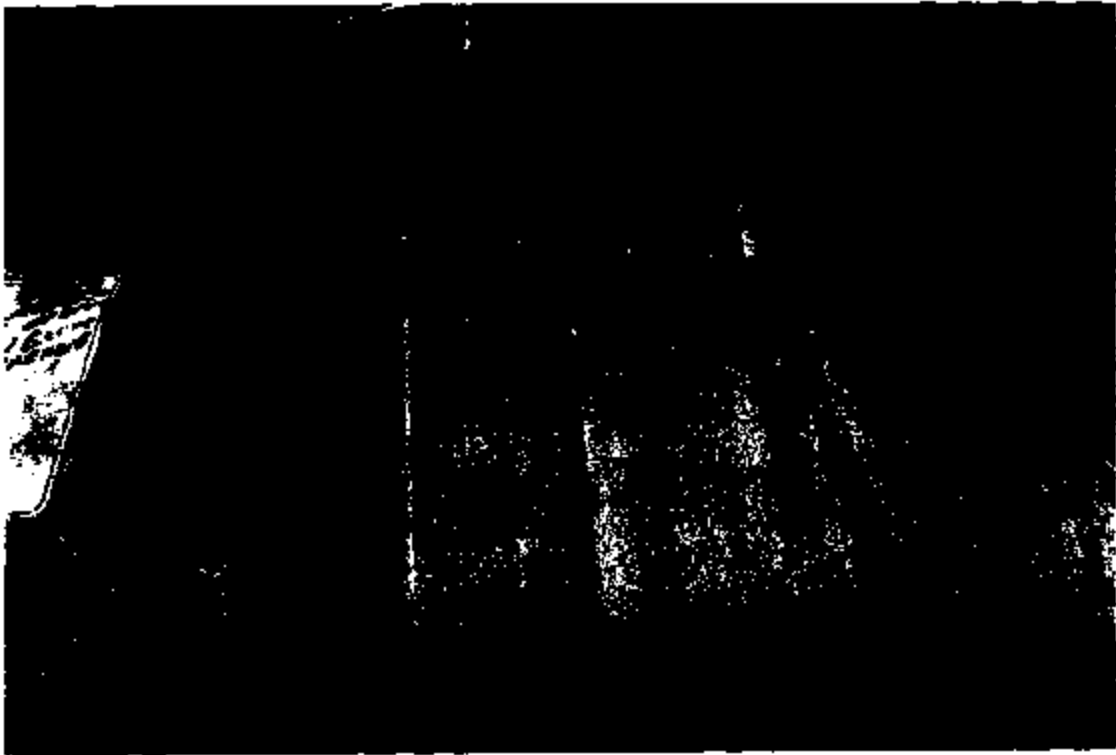
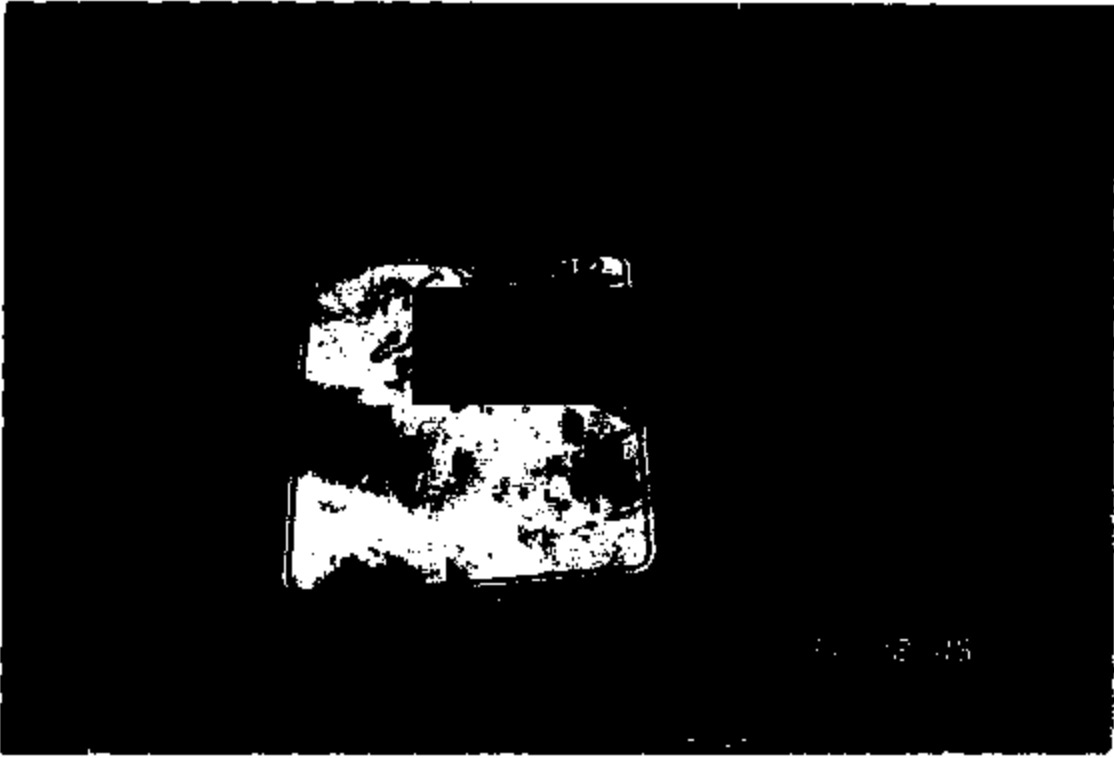
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DENVER OFFICE 14333 W. 44TH AVENUE 88, GOLDEN CO 80403 303.279.3766 FAX 303.279.3002
PORTLAND OFFICE 820 SE DIVISION PLACE, PORTLAND OR 97202 503.736.1106 FAX 503.736.1051

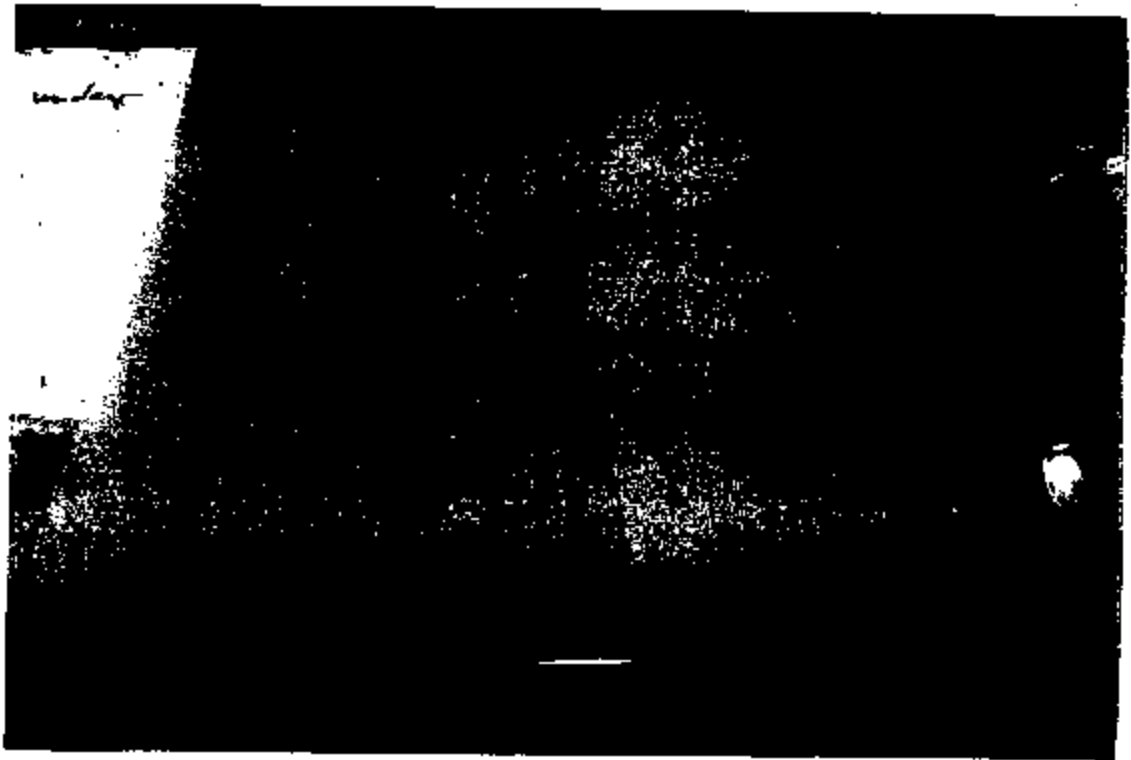
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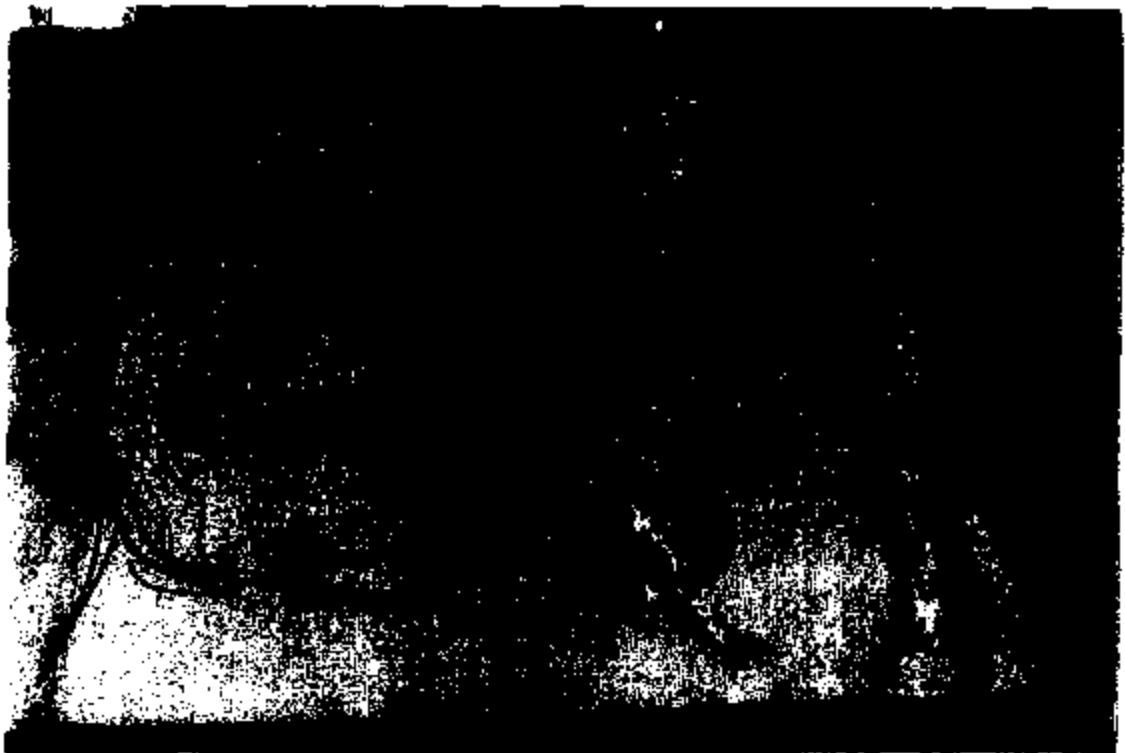
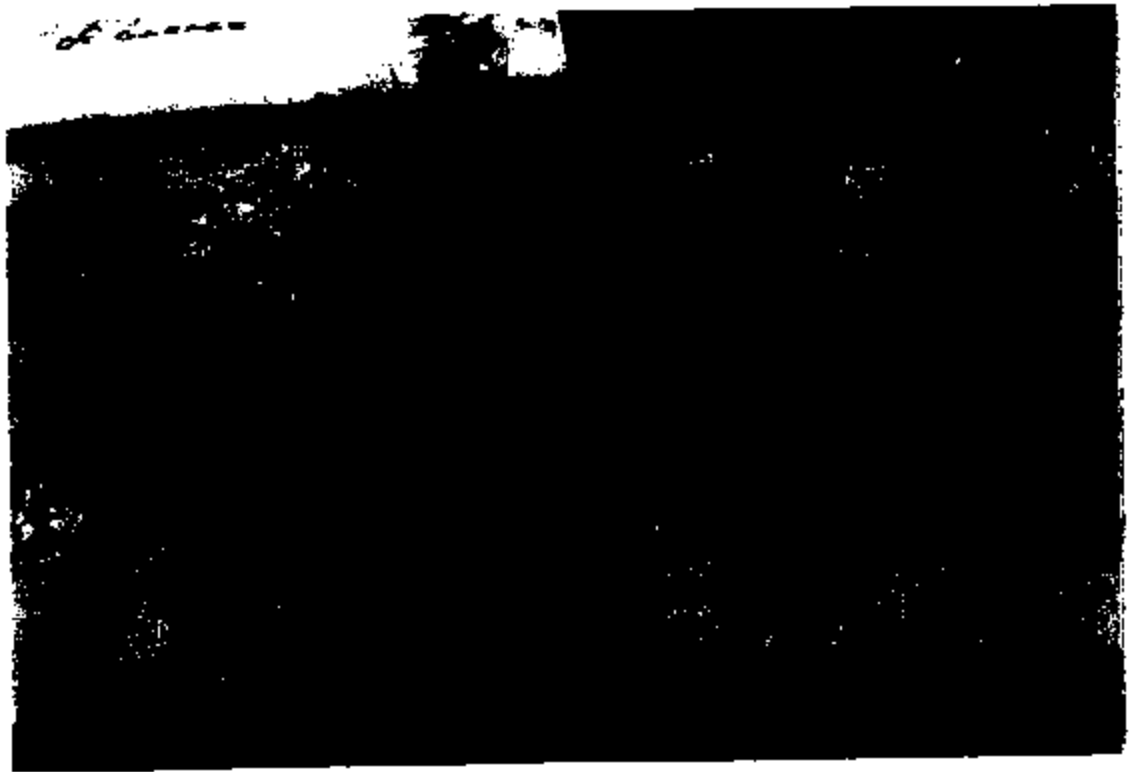


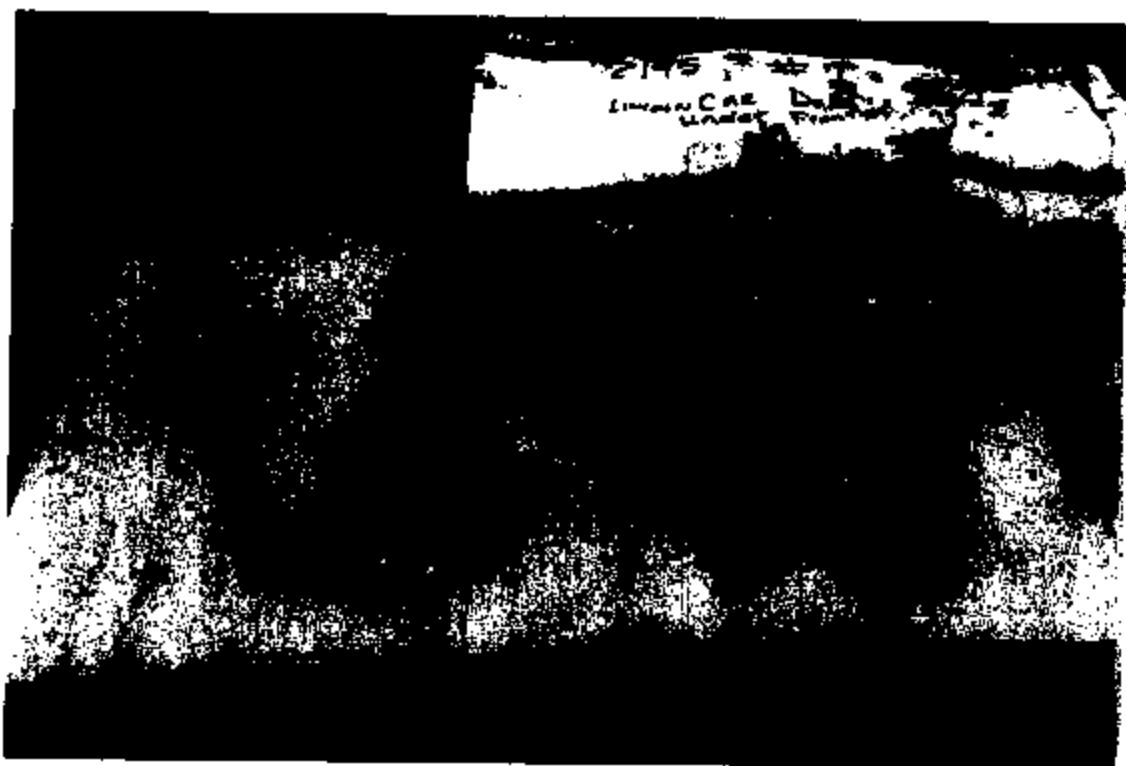




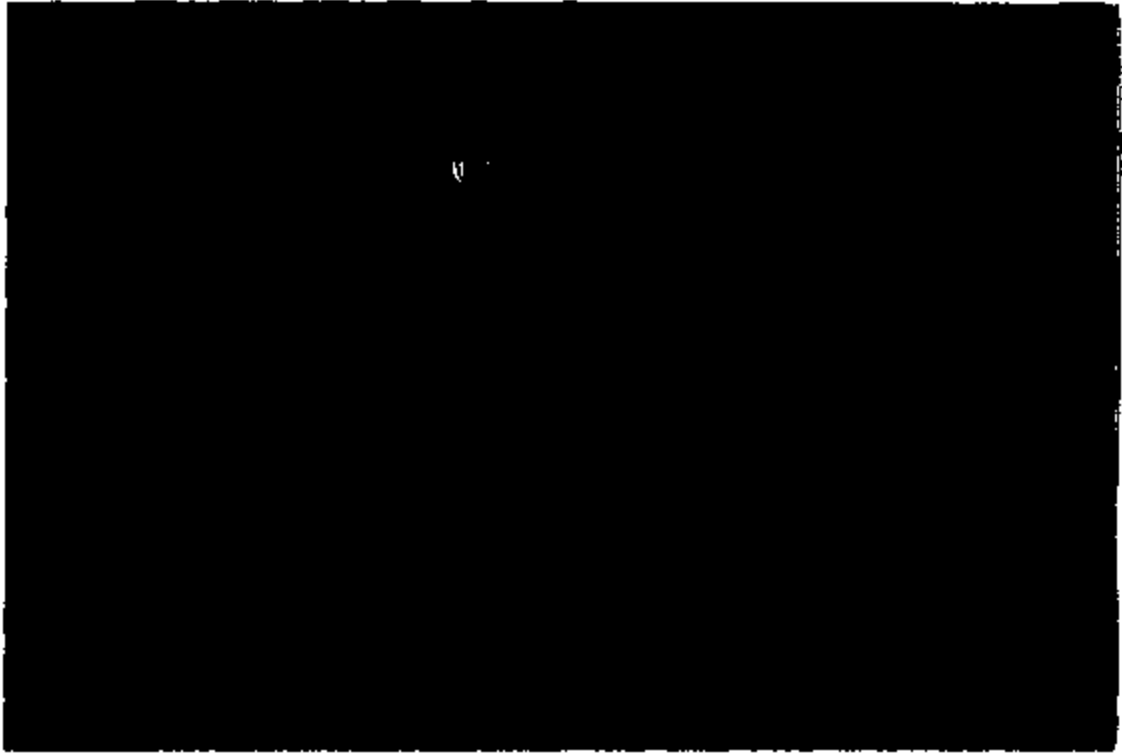


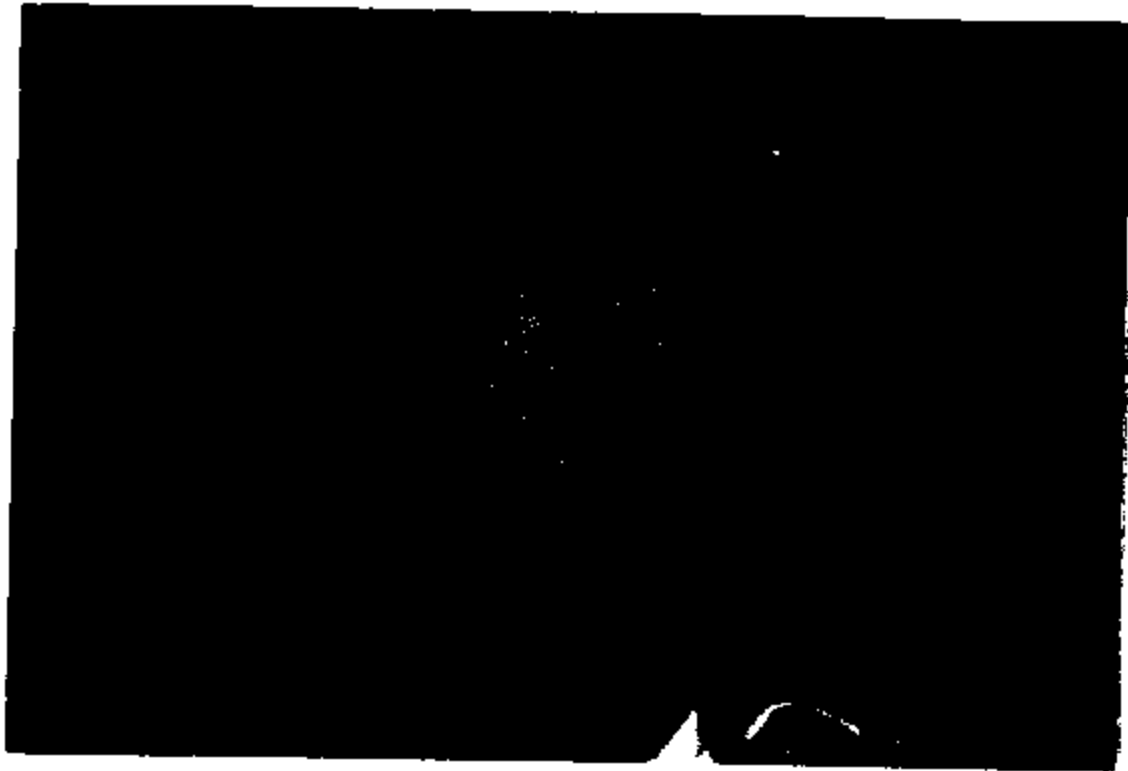
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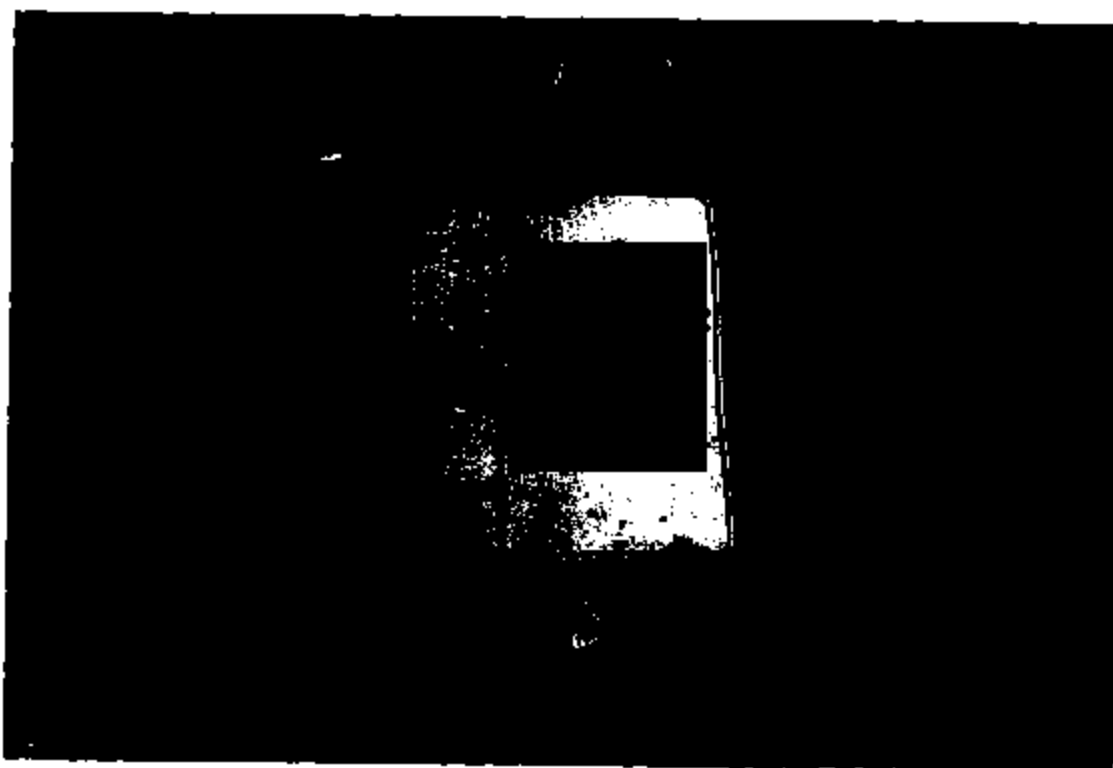




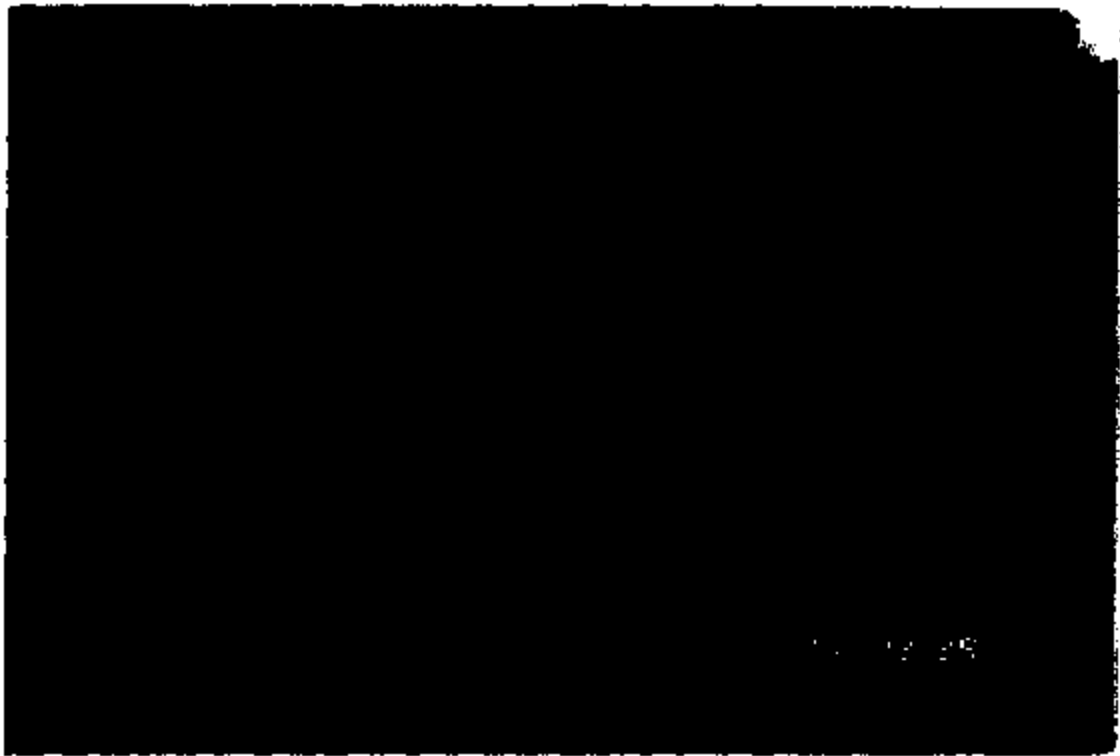










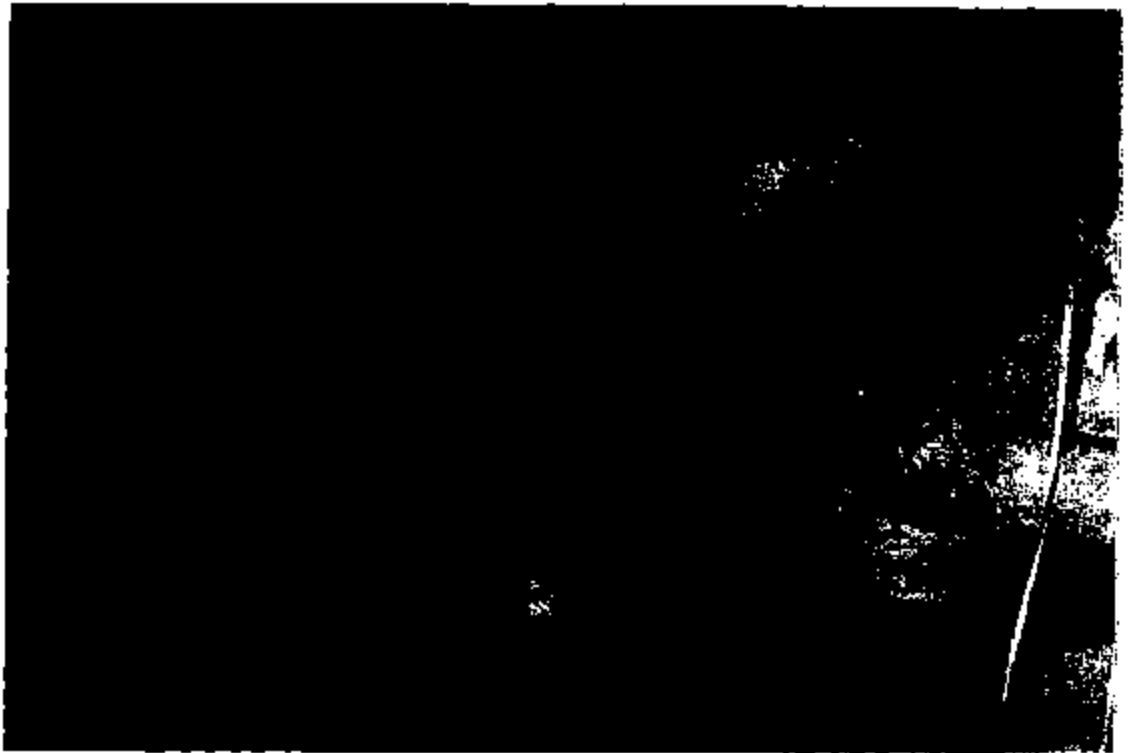




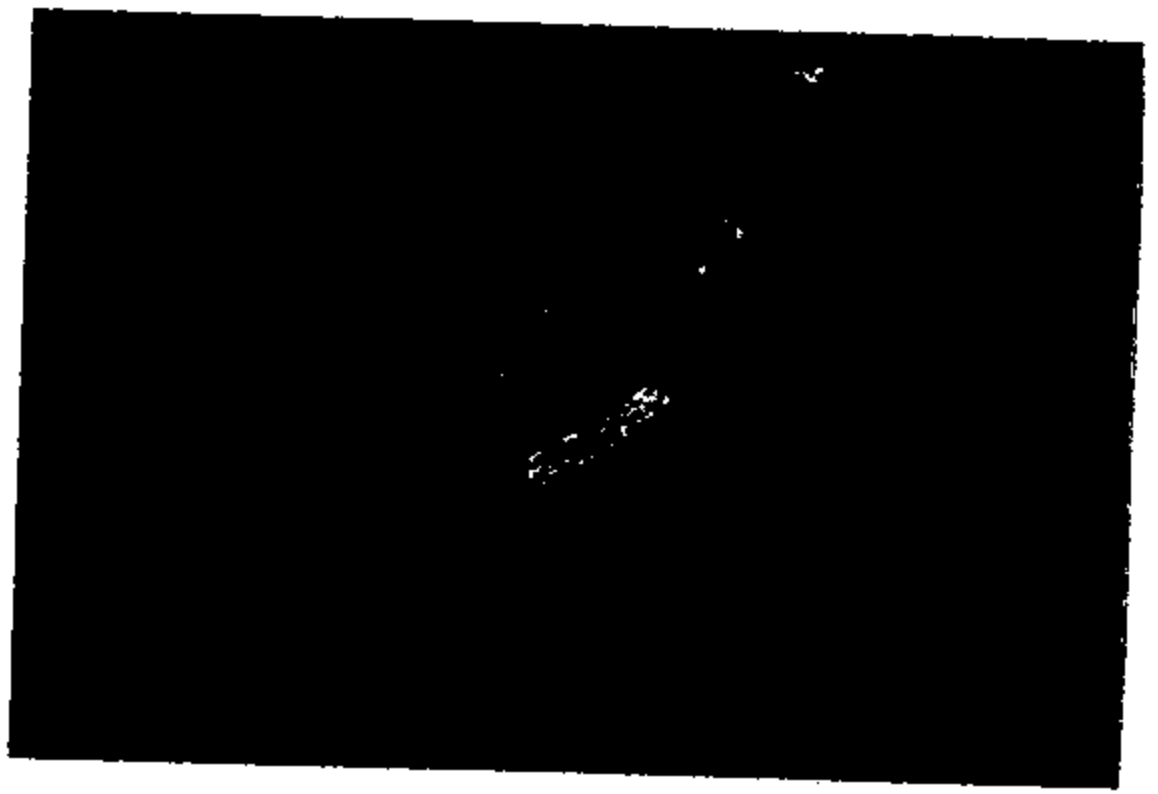














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