FD-340 REV. (6-14-77) Field File No. 00 and File No. Date Received (ADDRESS OF CONTRIBUTOR) Receipt Given Yes To Be Returned Yes Description:

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FD-940 REV. (6-14-77) Field File No... 89-1 00 and File No. Date Received Receipt Given Yes To Be Returned Yes Æ N∘ · Description: Copies of documents made available by Mr. Sigalos: made part of a LHM. 72.04

BA NILTON L. NEYSON

SUBJECT:

ASSASSINATION OF PRESIDENT KENNEDY

BAC, DALLAS (89-43)

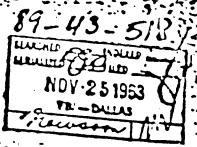
Mr. WALTER BENT, Sales Service Manager, Eastman Modak Company, Processing Service Division, 3131 Manor Way, telephone FL 7-4654, Dallas, telephonically advised his company had received two rolls of 8 milimeter Modachrone and one roll of 35 milimeter film in a package from Mr. CHARLES BRONSON, Chief Engineer, Earel Mig. Company, 9230 Denton Drive, Dallas, Texas.

Mr. BRONSON enclosed a letter with his film, stating that the film had been taken no the instant President KENNEDT was assassinated. BRONSON also advised in the letter that from the position he was stationed when he took the film, he feels quite certain the Texas School Book Depository building was clearly photographed and he feels that the window from which the shots were fired will be depicted in the film. He stated for this reason he believes he may have a picture of the assassing as he fired the shots.

Mr. BENT stated Mr. BRONSON's letter indicated he desired to be cooperative regarding the film with proper authorities and BENT is of the opinion that BRONSON will have no objection to turning the film over to proper authorities in the event it is of value to the investigation.

Mr. BENT stated that he would make arrangements with Mr. BRONSON to view the film at the Kodak Processing Center and would arrange this so that YBI Agents could be present/at the mass time interview BROWSON concerning his film of the scene.

Mr. BEST assured his full cooperation regarding ell film received of a like nature that may possibly be connected with this matter and arrangements were made with him to immediately notify SA NEWSON of any film of possible value.



LZI

The Eastman Kodak Processing Service Division received all color film made by 8 milimeter Kodachrome in this area and also most other film for the area is processed by this division. Mr. BENT explained that his employees have not worked since Saturday and they are due back to work at 11:30 gW, 11/25/63. Then processing of recent film orders begin, he expects other films taken at the approximate time of President's assassination.

Be said that BEONSON's film should be processed and the ready for viewing by 3:00 PM. He was told that BA NEWSON would neet with him at that time.

OM

SA MILTON L. NEWSON

ajecr:

ASSASSINATION OF PRESIDENT KENNEDY

Mr. WALTER BERT, Sales Service Manager, Eastman Kodak Company, Processing Service Division, 3131 Manor Way, and Mr. CHARLES BROKSON, Chief Engineer, Zorel Manufacturing Company, 9230 Denton Drive, were contacted by SAS MILTON L. NEKSON and EMORY E. HORTON on 11/25/63.

Pilms taken by Ar. Bookson at the time of the President's assassination included 35 mm. color slided which were taken with a Leica Campra, and 8 mm. Kodachrome film were reviewed. These films failed to show the building from which the shots were fired. Film did defect the lent's car at the precise time shots were fired; however, the pictures were not sufficiently clear for identification purposes.

One of the 35 mm. color slides depicted a female wearing a brown cost taking pictures from an angle, which would have, undoubtedly, included this Texas School Book Depository Building in the background of her pictures. Her pictures evidently were taken just as the President was shot. Approximately five other individuals in the bear were taking pictures at the time.

Arrangements have been made with Mr. WALTER BENT whereby each package of film received for processing by that company, will be returned to the owner of the film with a slip of paper attached requesting the individual to notify the local FBI Office in the event pictures in the package reflect the scene when the Iresident was assissinated. Mr. BPIT advised this company does the processing for all the southwestern atsets. An airtel is being furnished southwest offices notifying them of the above arrangements in the event they receive calls of this type.

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AIR MAIL

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(Prizity or Method of Mailing)

TO:

DIRECTOR, FBI (105-82555):

PROM:

SAC, DALLAS (100-10461)

LEE HARVEY OSWALD, AKA IS R CUBA

7"

Robutel to Dallas 12-17-63.

There are enclosed ten copies of a letterhead memorandum setting forth the names of individuals and the addresses known to the Dallas Office who took photomers or films of the Presidential Motorcade 11-22-63. Two copies of the letterhead memorandum are being designated locally to the Scoret Service.

No effort is being made to set forth the names of news media throughout the country who made photographs or if films in Dallas on 11-22-63.

3-- Bureau (105-82555) (Encs. 10) ...
2 - Dallas (100-10461)

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Special Agent in Charge

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In Reply , Planer Refer to tule No.

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Dullia, Texas December 19, 1963

Individuals Enown to Have Taken Thotographs or Pilms of the Presidential Motorcade, November 22, 1963, and other Photographs Relating to the Assassination cf Iseeldest KENNEUT

The fallowing individuals are known to the Dallas Office of the Federal Dureau of Investigation to have taken thotographs or film of the Fresidential Motorcade in Dallas, Texas on November 22, 1963:

> Mr. H. W. RWARRENT, IT. Daller, Texas

120 mill film; original returned to Betzner, Nivember 26, 1963

Charles Hore Clifet. ETUTIFICE: 25 F. Mig. Co., 9230 Dentim Prive, Dallae, Texas

Original in his possession

Robert Earl C: 709 (121/07) Denver, Coloredo

One Till 35 exposures, Kidentrome X

March 19x59 State University, Deaten, lexas

Mr. Ethora : 6615 Missey, Att. 3 Dallas, Texas

50! r:11 8 mm Kodachrome movie film; original returned to Hughes

Mrs. Mary Arn Microan 2832 Rif; lewood, Dallae, Texas

Criginal shotographs in her resession

100-10401-1778.

Index

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Information Re Photographs and Films of Assassination

December 19, 1953

Mrs. Marie Muchmare, 1980 Randy Lane, Farmer's Pranch, Texas Employed Justin McCarty Dress Wholesaler, 707 Young Street, Dallas, Texas

. Orville O. Nix --2527 Denley Drive, Dallas, Texas

Stuart L. Reed Fost Office Box 196, Balboa Heights, Canal Zone

Jack A. Weaver 829 Fidelity Union Life Building, Dallas, Texas

Mrs. E. H. Westfall 4216 San Carlos Dallas, Texás Moving pictures; original in her possession

One roll 8 mm color film depicting Presidential Motorcade turning on Houston Street and approaching the Elm Street intersection to the north; original in Nix' possession

Mr. Reed's daughter, F. A. Holley, 120/ Sunnyside, Dallas, Texas, believed to have the photographs taken by Mr. Reed, which are three 35 mm transparenci depicting apprehension of Lee Harvey Oswald at Texas Theater, November 22, 1963

One photograph of President's car making right-hand ter on to Houston Street from Hain showing the Texas School Book Depository building in background

Two color photographs of Texa School Book Depository tuilding, both photographs showing the pertinent windown the sixth floor as being closed, the photograph taken on the morning of November 22, 1963

Information Re Photographs and Films of Assassination

December 19, 1963

Abraham Zapruder 3909 Marquette Street Dallas, Texas

One roll 8 mm movie fulnishowing the motorcade approaching Texas School Book Depository building and President subsequently being shot

11 December 1978

Mr. Michael Goldsmith
Senior Staff Counsel
Select Committee on Assassinations
U.S. House of Representatives
House Office Building, Annex 2
Washington, D.C. 20515

Dear Mickey:

On 2 December 1978, a meeting was held at The Aerospace Corporation to view and evaluate a movie film which was taken by Mr. Charles I.. Bronsor at Dealey Plaza approximately five minutes prior to the assassination of President Kennedy. The meeting was arranged by Ms. J. ne Downey of the Select Committee on Assassinations and was attended by Al Hall, Harold Levine, and John Sigalos of the law firm Sigalos and Levine representing Charles Bronson and by the following photographic and Digital Image Processing technical experts: Harry Andrews and David Garber of USC; B. R. Hunt of the University of Arizona; Robert Selzer of Jet Propulsion Laboratory; N. K. Baker, E. A. Larson, C. J. Leontis, J. R. Parsons, D. M. Rosenthal of The Aerospace Corporation; Al Mandl, consultant to Aerospace Corporation; and R. P. Chiralo, formerly with Aerospace Corporation.

Mr. John Sigalos brought an 8 mm color movie film which he said that Mr. Bronson took with a Keystone camera at 12 frames per second, a 16 mm color copy which according to Mr. Sigalos had been generated by Mr. Bob Groden, and a set of 35 mm slides showing the area around the 6th loor window of the Texas School Book Depository Building also made by Rob Groden although Mr. Sigalos did not know whether the slides were made from the 8 mm original or from the 16 mm copy.

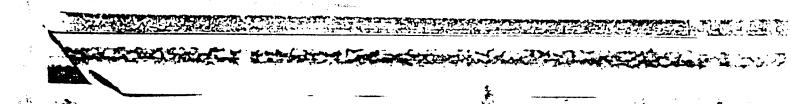
Following some brief remarks by Mr. Sigalos regarding the circumstances surrounding the Bronson film and Mr. Groden's involvement, the participant were shown the following:

readu Equal Opportunity Employer

- Itronson original 8 mm movie or the 16 mm copy showing the area around the 6th floor window of the Texas School Book Depository Building. In addition to viewing these slides slowly and in rapid succession, several pairs of slides were superimposed on the same screen using two projectors, and they were switched back and forth from one slide to the other in order to enhance any differences between frames and assess whether or not such differences might be attributed to motion behind the window.
- b. A 16 mm copy of the Bronson movie film and 16 mm enlargements of the area around the 6th floor window of the Texas School Book Depository Building. This 16 mm film which Mr. Sigalos identified as the Groden film was projected at a variety of frame rates ranging from stop frame to 24 frames per second.
- c. Several frames of the original 8 mm Bronson film were viewed under a microscope. One frame was selected in which the area around the 6th floor window of the Texas School Book Depository Building was scanned in color in the PDS microdensitometer with a 5 micron aperture and 2 micron line spacing and displayed on the COMTAL with varying degrees of contrast enhancement interactively applied. The enclosed color print which was generated in the Dicomed D-47 display unit shows the exact area of the frame which was scanned and displayed. All this was done in The Aerospace Corporation's Digital Image Processing Laboratory during the 2 December meeting. The experts recommended not to show the 8 mm original film in order to avoid any possibility of damage and because our 8 mm projector could not be operated at variable frame rates. Viewing the film at normal frame rates and without magnification of the area of interest was not considered useful enough to warrant even a small risk of damaging the original film.

Following is a summary of observations and conclusions by the experts present at this meeting:

The Bronson film, although taken from a slightly different angle than the Hughes film, shows about the same area around the 6th floor wirdow of the Texas School Book Depository Building, but the Bronson film is of superior quality compared to the Hughes film. This observation is based in viewing the original 8 mm Bronson movie film under a microscope and the 6th floor window portion of a digitized frame on the COMTAL display.



- 2. If the Bronson film had been available earlier, the experts would he recommended that it be analyzed along with the Hughes film.
- Following careful examination of the Groden 35 mm slides and 16 m movie film, the experts at this meeting could not say conclusively thether or not the frame-to-frame changes in the 6th and 5th floor windows were due to real motion behind the windows. The experts disagree unanimously with Mr. Groden that "you can actually see one figure walking back and forth hurriedly" as he was quoted by The Dallas Morning News on 26 Noven 1978. A more definitive conclusion may result through computer processing of selected frames from the 8 mm Bronson original. The experts also feel that a good quality 16 mm photographic copy with the area of interest enlar, could be of interest.
- 4. In viewing Groden's 16 mm copy of the Bronson film and recalling framework the Hughes film and the computer processed frames of the Hughes film, the experts observed similar dynamics in the two films; i.e., the apparent motion in the windows seems to be random and therefore it is not likely to be due to human motion behind the window. Again, this observation is based primarily on our past experience with the Hughes film. Computer analysis of the Bronson film similar to that applied to the Hughes film may clarify this issue especially since the Bronson film is of superior quality to the Hughes film.

In accordance with our telephone conversation, I am sending a copy of this letter to each participant in the 2 December meeting at Aerospace with the request that they review it and submit corrections or additional comments directly to the Select Committee.

Very truly yours,

THE AEROSPACE CORPORATION

C. J. Leontis, Director

Optical Systems Department

CJ1:peg

SIGALOS A OVANI ATTORNESS AND COUNTRIONS AT LAW 1300 REPUBLIC NATIONAL HANK TOWER DALLAS TEXAS 75201 (214) 745-1751

JOHN L. MIGALON HAROLD LEVINE ALPHED E. HALL*

December 14, 1978

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WASHINGTON, DET. 400 PERMIT SULLE NO. 2000 WASHINGTON, D. C. 2000

PATENT, TRADEMSER, COPYRIG

Mr. Michael Goldsmith, Esq. Senior Staff Counsel Select Committee on Assassinations U.S. House of Representatives House Office Building, Annex 2 Washington, D.C. 20515

Dear Michael:

I have read Charles J. Leontis' letter to you of December 11, 1978, and have several brief comments which I believe should be made of record.

First, I think Mr. Leontis did an excellent job of setting forth the consensus of the views of the experts present at the meeting at the Aerospace Corporation on December 2, 1978. There were some present who felt that Mr. Bronson's film did show certain images of definite interest and were of the view that the original film must be carefully studied, but I leave it to them to comment directly to you as to their views.

Second, while interpretation of Mr. Bronson's film and any enhanced version thereof is to be left to the experts, I lo feel qualified to comment as to what should be done based on certain conclusions reached by the experts. Specifically, all experts present at the December 2, 1978 meeting were of the opinion that the Bronson film is of superior quality as compare, to the Hughes film and that movements were observed in the 6th floor windows of the Texas School Book Depository. In my opini these facts, in and of themselves, mandate proper further analyt of the Bronson film. It should be noted that even if, based solely on viewing the poor quality 16 mm. copy of Mr. Bronson's film, some experts may feel at this point that the motion in the Bronson film may only exhibit dynamics similar to that in the Tighes films, this does not militate against the necessary furthstudy of the Bronson film. As Mr. Leontis stated in his otter referring to this motion in the windows, "Computer analys s of * Bronson film similar to that applied to the Hughes film may clar this issue especially since the Bronson film is of superior qual to the dughes film."

Mr. Michael Goldsmith, Esq. December 14, 1978 Page 2

As an attorney, I cannot conceive of a piece of evicence as relevant as Mr. Bronson's film not being fully studied to the fullest extent possible; particularly when it deals with the murder of a President of the United States of America

In keeping with the agreed procedure, I am sending a copy of this letter to each participant at the December 2, 1976 meeting at The Aerospace Corporation.

Sincerely,

SIGALOS & LEVINE

John L. Sigalos

JLS/dar

'ed

Dr. H. C. Andrews cc:

Mr. N. K. Baker

Mr. Robert Chiralo

Mr. David D. Garber

Alfred E. Hall, Esq.

Dr. B. R. Hunt

Mr. E. A. Larson

Mr. Charles J. Leontis

Harold Levine, Esq.

Mr. Al Mandl

Mr. John Parsons

Mr. David Rosenthal

Mr. Robert Selzer

HET PROPERSION LANDRATIO

JET PROPULSION LABORATORY California Institute of Technology • 4800 Oak Grove Drive, Pasadena, Californi, 9110

384/IPL-BIP/78-233

December 21, 1978

Mr. Michael Goldsmith
Senior Staff Counsel
Select Committee on Assassinations
U.S. House of Representatives
House Office Building, Annex 2
Washington, D.C. 20515

ULC 27 1978 SIGNLOS & LEVINE

Dear Michael:

The purpose of this letter is to communicate some retrospective reactions to the Bronson 8mm film that we viewed on December 2 at Aerospace Corporation. I have discussed some of these points with Chuck Leontis and he agrees that a separate letter from me would be appropriate since his letter summarizes the group concensus on December 2. I am not incidently in disagreement with the report contained in the Leontis letter of December 11 but would perhaps more strongly recommend computer processing of this film for the following reasons:

To my knowledge, this is the only possible evidence of movement behind the two closed windows adjacent to the half-open window. I am referring first to the immediately adjacent window (labeled 1 on the attached diagram) and the second to the nearest section of the window under the curved brick facing (labeled 2). Every other photo or movie frame that I can remember shows these windows completely opaque, possibly due to a combination of dirt and sun glare. It is possible that slight window pane movement could create the appearance of rapidly moving objects. If so, the speed of shadow change, if clarified, could easily be distinguished from human movement. clarification could also indicate compatibility with human movement but in either case, the movement should be analyzed.

Telephone 354-4321

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Tux 910-588-3269

Turx 910 583 3294.

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2. In the past, viewing of computer processed movie frames as a movie has been difficult because the Comtol display can only store and rapidly display three frames. The alternative was to photograph each output picture from the computer (or alternately, record each frame on file) and then to rephotograph the "stills" with movie film. This was not done because of cost and because it was not clearly indicated necessary in any single case.

This situation has changed to the extent that we have acquired a video disk system at JPL that allows up to 200 color pictures to be easily transferred from the computer to the disk and then sequenced at any frame rate on a TV monitor for viewing. I cannot commit the use of JPL facilities in this letter but I believe some future arrangement might be worked out if the type of effort described above was to be made. I will be glad to supply a more specific processing recommendation if you wish.

3. The original 8mm Bronson film is not only better than Hughes and better than the Groden copy of the Bronson film, but in the latter case, vastly better. To give an example, the lower window framing (see arrow #3) is so blurred on the Groden copy that it cannot be identified as a structural part of the window. On the digitized version of one Bronson original frame on the Comtol display, this structure was clearly evident and well defined.

As an interim alternative to computer processing, I strongly recommend as stated in the Leontis report of December 11, that RIT be funded (somehow) to make a high quality 16mm copy of just the enlarged window area directly from the Bronson 8mm original. If a first-order registration can be accomplished (i.e., forcing an identifiable p int such as the corner of a window to appear in the same spot on each 16mm frame) this would be very helpful from a viewing standpoint.

Mr. Michael Goldsmith

- 3-

December 21, 197

I'm rushing this a bit because Christmas is about to descend on our office. Please do not hesitate to contact me if you want any further discussion of these issues. Hope you have a nice holiday.

Best regards,

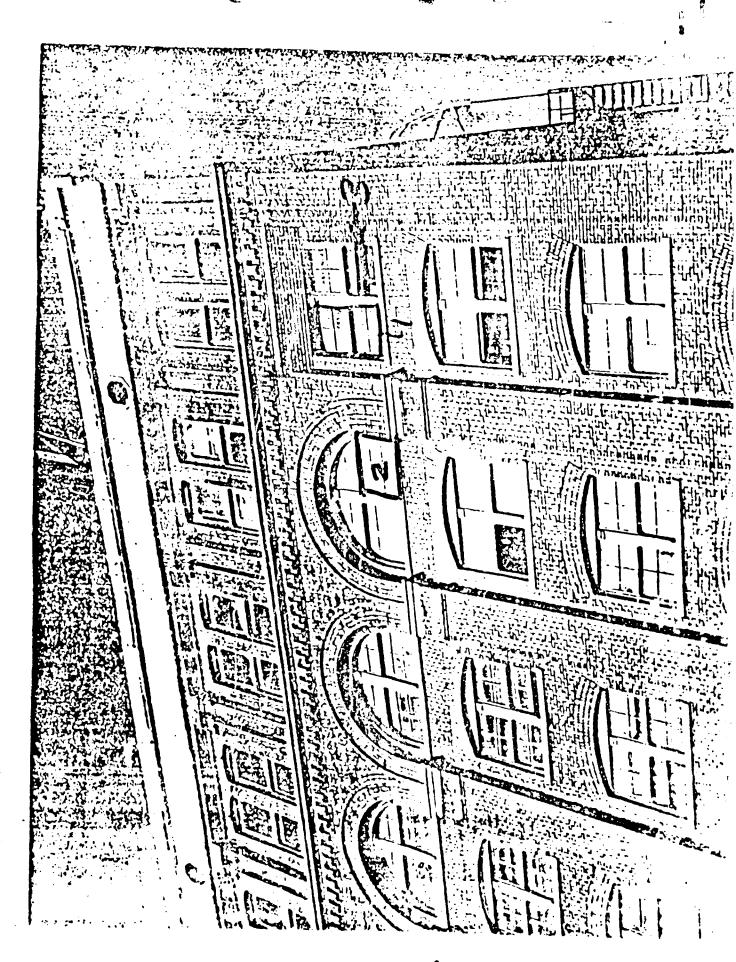
Bot Selzer

Robert H. Selzer

cc: C. J. Leontis

J. L. Sigalos

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PRECIANT ON PREVIRE H.C.

WALLEN L. FAIRTHINE, D.C.

YVONE BRATIWALLE RURKE, CALIP.

CHRISTOPHIR J. DOON, CONN.

MAROLD S. FORD, TERM.

FLOYD J. FITHIAN, IND.

ROBERT W. EDGAR, PA.

RAMINE C. HIVINI OHIO
RIEW PROPERTY CON
HAROL BL., N. MICH.

(202) 225-4624

Select Committee on Assassinations

U.S. House of Representatives
3369 House Office Building, Annex 2
Washington, D.C. 20515

January 8, 1979

The Honorable Griffin B. Bell Attorney General of the United States Department of Justice Washington, D.C. 20530

RECEIVED
JAN 1 5 1979

SIGNLOS & LEVINE

Attention: Mr. Robert L. Keuch

Deputy Assistant Attorney General Criminal Division, Room 2113

Dear Mr. Attorney General:

In connection with its investigation into the circumstances surrounding the death of President Kennedy, I am writing to recommend that the Department of Justice conduct digital image processing work in an effort to enhance the quality of a segment of a movie film that was taken by Charles L. Bronson a few minutes before the assassination of President Kennedy. The Bronson film is potentially significant because it may show movement by more than one person in the vicinity of the sixth floor southeast corner window from which Lee Harvey Oswald shot at the President. Because the film was not made available to the Committee's Photographic Evidence Panel until December 2, 1978, the Committee did not have funds available to authorize any sophisticated image enhancement analysis regarding this item.

The Committee's Photographic Evidence Panel did, however, indicate that enhancement efforts with this film are warran ed (see enclosures). In particular, the Panel noted that since the quality of this film is superior to that of another film (by Robert V. Hughes) which was subjected to this type of analysis, there is now a greater likelihood of resolving the issue of how much motion, if any, can be discerned in the region of the sniper's window.

The Bronson film is presently in the possession of John Sigalos and Hal Levine, attorneys for Mr. Bronson, at 1300 Republic National Bank Building, Dallas, Texas 75201. Mr. Sigalos has expressed the willingness of his client to cooperate fully with the United States Government if digital image processing of this film is considered desirable.

À

The Honorable Griffin B. Bell January 8, 1979
Page 2

Should the Department decide to act favorably upon this recommendation, I would further advise that the Committee's photographic contractors or members of its Photographic Evidence Panel be retained either on a consulting basis or to perform the actual enhancement work. Because these scientists have reviewed the existing photographic evidence pertaining to the assassination and are therefore very familiar with the issues which this evidence has raised, they are perhaps best qualified to provide you with their assistance. A list of these individuals is attached.

Thank you for your cooperation regarding this matter.

Sincerely,

(LOUIS STOKES Chairman

GRB:mgm

Attachments

cc: Ron Heller

Sigalos and Levine

Attn. John Sigalos, Esquire

PHOTOGRAPHIC EVIDENCE PANEL

MEMBERS AND CONTRACTORS

Dr. Harry C. Andrews
Director, Image Processing Institute
University of Southern California
University Park
Los Angeles, California 90007

Richard J. Blackwell Jet Propulsion Laboratory 4800 Oak Grove Drive Pasadena, California 91103

Thomas N. Canning NASA Ames research Center Mail Stop 244-7 Moffett Field, California 94035

David B. Eisendrath 37 Garden Place Brooklyn, New York 11201

Dr. Ronald Francis
School of Photographic Sciences
Rochester Institute of Technology
1 Lomb Memorial Drive
Rochester, New York 14623

William K. Hartmann Planetary Science Institute 2030 East Speedway, Suite 201 Tucson, Arizona 85719

Robert R. Hunt Optical Science Center University of Arizona Tucson, Arizona 85721

Dr. D. H. Janney University of California Los Alamos Scientific Laboratory P.O. Box 1663 Los Alamos, New Mexico 87545

Sgt. Cecil Kirk, Director
Mobile Crime Lab
D.C. Metropolitan Police Dept.
Municipal Center, Room 1064
Washington, D.C. 20001

Charles J. Leontis
The Aerospace Corporation
P.O. Box 92957
Los Angeles, California 90009

C. S. McCamy Macbeth Divison Kollmorgen Corporation Newburgh, New York 12550

Everett Merritt Star Route, Bayne Road Ridge, Maryland 20680

Paul G. Roetling
Webster Research Center
Xerox Corporation
Wilson Center for Technology
Rochester, New York 14644

Frank Scott
Box 88
West Redding, Connecticut 06896

Robert H. Selzer Jet Propulsion Laboratory 4800 Oak Grove Drive Pasadena, California 91103

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